

Subject Index 2002*

A

Absolute configuration

Dipole-stabilized carbanions in the series of cyclic aldonitrones. 3. The influence of the configuration of the nitron group on H–D exchange of the methine hydrogen atom and metallation of aldonitrones, **2**, 297

Synthesis of 6(*E*)- and 6(*Z*)-(3-ethoxycarbonylpropyl)-oximes of 16 α ,17 α -cyclohexanopregn-4-ene-3,6,20-trione and study of their interaction with proteins of the rat uterine cytosol and blood serum, **4**, 703

Steroid polyols from the Far-Eastern starfish *Henricia sanguinolenta*, **12**, 2295

Absorption spectra

Formation of coordination polymeric structures on the basis of 4,4'-dipyridylethylene and Ag⁺ in solutions, **3**, 476

Acenaphthylene

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Acetates

Solid-phase oxoalkylation of pyridines and quinolines with 1-methylcycloalkanols under the action of lead tetraacetate, **10**, 1812

Sulfur ylides. 12. Optically active keto stabilized sulfur ylide obtained from L-proline: synthesis and study, **12**, 2230

Acetic acid

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Acetoacetates

On the reactions of aroylacetonitriles with acetoacetates, **8**, 1545

N-Acetoacetylhydrazones

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

Acetone

First multicomponent synthesis of tricyclic hydrogenated pyridines, **2**, 362

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Influence of rhenium additives on the activity of Cu/sibunit catalyst in transformations of isopropyl alcohol, **9**, 1768

Acetone oxime

Synthesis and structures of triphenylantimony oximates, **6**, 1051

Acetonides

New method for trimethylsilylation of hydroxy-containing compounds. Synthesis of persilylated ecdysteroids and carbohydrates, **10**, 1937

Acetophenone oxime

Synthesis and structures of triphenylantimony oximates, **6**, 1051

3-Acetoxy-2-bromo-1,1,1-trifluoropropane

Novel method for the synthesis of (trifluoromethyl)oxirane, **3**, 550

erythro-4-Acetoxy-2,3-dimethylbutan-1-ols

Enzymatic dissymmetrization of *meso*-2,3-di-methylbutane-1,4-diol and its diacetate. Synthesis of scalemic (–)-lasiol, **3**, 481

(4S,6S,7S)-7-Acetoxy-4,6-dimethylnonan-3-one

New synthesis of serricornin, the sex pheromone of the cigarette beetle (*Lasioderma serricornis*), **8**, 1600

2-(3-Acetoxypropyl)cycloalkanones

A new method for synthesis of n-(3-acyloxypropyl)-substituted six- to thirteen-membered alkan-n-olides, **10**, 1806

Acetyl

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Acetylacetonate

On the reactions of aroylacetonitriles with acetoacetates, **8**, 1545

N-Acetylaminines

Synthesis of 5,6-indolo-12-crown-4 ethers, **1**, 135

3-Acetyl-4-amino-6-arylpyran-2-ones

Synthesis of 3-acetyl-4-amino-6-arylpyran-2-ones and ethyl 7-aryl-4,5(1*H*,5*H*)-dioxopyrano[4,3-*b*]pyridine-2-carboxylates, **3**, 503

5-Acetyl-4-aminopyrimidines

Simple synthesis of alkyl 5-oxo-5,8-dihydropyridido[2,3-*d*]pyrimidine-7-carboxylates from 5-acetyl-4-aminopyrimidines, **10**, 1875

Acetylenes

Copolymerization of acetylene with ethylene in the presence of dibenzenetitanium(0), **5**, 817

Reactions of the Ru₃(CO)₁₀(μ-Ph₂PCH₂PPh₂) cluster with enynes RCH=CHC≡CR (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

Alkylation of acetylene by *tert*-butyl alcohol, **11**, 2134

* Compiled by L. G. Menchikov and M. E. Poloznikova,
Editor L. O. Kononov.

Acetylenic derivatives

Synthesis of 5,6-indolo-12-crown-4 ethers, **1**, 135

N-Acetylneuraminic acid glycal

Selective preparation of glycosyl sulfone or glycal by treatment of phenyl thioglycoside of *N*-acetylneuraminic acid with *m*-chloroperbenzoic acid, **4**, 698

Acid chlorides

Synthesis of 3-carbamoyl-1,2,4-oxadiazoles, **10**, 1857

Acido ligands

Tetranuclear rhenium chalcogenide cluster complexes with a cubane core. Synthesis, structures, and properties (review), **4**, 569

Acidocomplexes

Ring opening in epichlorohydrin and β -methylepichlorohydrin under the action of the $[\text{PtCl}_4]^{2-}$ anion in aqueous solutions, **2**, 354

Acids

Proton mobility in hydrates of inorganic acids and acid salts (review), **4**, 555

Estimation of dissociation energies of C—H bonds in oxygen-containing compounds from kinetic data for radical abstraction reactions, **9**, 1641

CH Acids

Pd-Catalyzed asymmetric allylation of an *o*-carborane derivative, **3**, 513

Chlorolysis of β -functionalized alkyl polyfluoroalkenyl sulfides, **6**, 1031

A practical method for synthesis of stable phosphorus ylides in aqueous media, **12**, 2244

Acridine-based macrocycles

Acridine-based macrocycles as potential probes for studies of the structures of nucleic acids, **7**, 1212

Acrylates

1,2,4-Triazino[5,6,1-*i,j*]quinolines: a new type of tricyclic analogs of fluoroquinolones, **4**, 663

Acrylonitrile

Sulfur ylides. 12. Optically active keto stabilized sulfur ylide obtained from *L*-proline: synthesis and study, **12**, 2230

Activated carbons

Features of nuclear magnetic relaxation of water and benzene molecules during absorption on activated carbons and estimation of pore size distribution in adsorbents, **11**, 2036

Activation energy

Reactions of mono- and bimolecular hydrogen transfer in alkyl radicals: analysis using the parabolic model and density functional calculations, **4**, 602

Influence of the size of the formed cycle on the reactivity of free radicals in cyclization reactions, **6**, 949

Estimation of dissociation energies of C—H bonds in oxygen-containing compounds from kinetic data for radical abstraction reactions, **9**, 1641

Acylation

Enzymatic dissymmetrization of *meso*-2,3-di-methylbutane-1,4-diol and its diacetate. Synthesis of scalemic (–)-lasiol, **3**, 481

Synthesis of 2- and 3-pyridinyl(aryl)methanones, **3**, 540

Heterocyclic analogs of pleiadene. 70. Synthesis of 6-hydroxy-1,3-diazapyrenes, **5**, 860

Photochromic dihetarylethenes. 13. Optimization of conditions for the acylation of 2,5-dimethylthiophene with squaric acid dichloride, **8**, 1510

Synthesis of 4-acyl(alkoxycarbonyl)-5-fluoroalkyl-3,5-dihydroxyfuran-2(*5H*)-ones, **9**, 1727

Sulfur ylides. 12. Optically active keto stabilized sulfur ylide obtained from *L*-proline: synthesis and study, **12**, 2230

Acyldihydrazones

ESR study of weak exchange interactions in binuclear copper(II) complexes with 2-hydroxyacetophenone acyldihydrazones, **12**, 2268

Synthesis and study of binuclear vanadyl complexes with acyldihydrazones of salicylaldehyde and dicarboxylic acids, **12**, 2273

2-(2-Acylethenyl)-5-phenylpyrroles

Strong intramolecular hydrogen bond N—H...O in 2-(2-acyl-1-phenylethenyl)-5-phenylpyrroles, **1**, 111

1-Acylperoxy-2-oxabicycloalkanes

A new method for synthesis of *n*-(3-acyloxypropyl)-substituted six- to thirteen-membered alkan-*n*-olides, **10**, 1806

***N*-Acyl-3,3,3-trifluoroalanine esters**

A convenient synthesis of 3,3,3-trifluoroalanine derivatives, **11**, 2136

Adamantanes

Formation of dehydrogenated derivatives upon the oxidative dehydrogenation of adamantanes, **2**, 364

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Addition reactions

Addition of Me_2^+CCN , Me_2^+CPh , and $\text{CCl}_3\text{CH}_2^+\text{CHPh}$ radicals to fullerene C_{60} , **2**, 240

Copolymerization of acetylene with ethylene in the presence of dibenzenetitanium(0), **5**, 817

Sulfur ylides. 11. Selected chemical transformations of 1-methylthio-3,4-dihydropyrido[2,1-*a*]isoindole-2,6-dione, **6**, 1035

Oxidative coupling of the azide ion with anions of primary nitroalkanes. Synthesis of 1-azido-1-nitroalkanes, **8**, 1466

Reactions of (1*S*,3*S*)-3-acetoxymethyl-1-(2-acetoxyvinyl)-2,2-dimethylcyclopropane with haloforms under conditions of phase-transfer catalysis, **9**, 1765

Study of the reactions of 3-chloro-4-cyanobenzo[*b*][1,6]naphthyridine with nucleophilic reagents, **11**, 2121

 σ -Adducts

Study of the reactions of 3-chloro-4-cyanobenzo[*b*][1,6]naphthyridine with nucleophilic reagents, **11**, 2121

Adipates

Copolymerization of propylene oxide with carbon dioxide catalyzed by zinc adipate, **8**, 1451

Adsorbents

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Adsorption

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Adsorption of $H_3PW_{12}O_{40}$ by porous carbon materials, **2**, 243

Modification of the polytrimethylsilylpropine adsorption layer in open capillary columns, **4**, 625

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

High-resolution and cross-polarization magic angle spinning NMR studies of tricarbonylchromium complexes with polycyclic aromatic ligands (review), **6**, 907

Effect of acidity of the medium and polarization of the surface on albumin adsorption by carbon fibers, **6**, 1006

Calibration functions in approximate simulations of equilibrium adsorption characteristics, **9**, 1667

Elution and frontal dynamics of adsorption of organic substances on activated carbon, **9**, 1675

Concentration dependences of heat conductivity coefficients of inert gases in narrow pores, **11**, 2026

Features of nuclear magnetic relaxation of water and benzene molecules during absorption on activated carbons and estimation of pore size distribution in adsorbents, **11**, 2036

Adsorption of surfactants on superfine magnetite, **11**, 2044

Adsorption of perfluoropropane on the PAC microporous carbon adsorbent, **12**, 2161

Adsorption heat

Adsorption of surfactants on superfine magnetite, **11**, 2044

Adsorption isotherms

Adsorption of $H_3PW_{12}O_{40}$ by porous carbon materials, **2**, 243

Adsorption of surfactants on superfine magnetite, **11**, 2044

Affinity modification

Investigation of surface oligonucleotide-binding proteins of eucaryotic cells by affinity modification with reactive oligonucleotide derivatives, **7**, 1204

Affinity reagents

Investigation of surface oligonucleotide-binding proteins of eucaryotic cells by affinity modification with reactive oligonucleotide derivatives, **7**, 1204

Aggregates

Conceivably the first example of a phase transition in aqueous solutions of oligosaccharide glycosides. Evidence from variable-temperature 1H NMR and optical rotation measurements for a solution of allyl lactoside, **7**, 1337

The aggregation and catalytic activity of amphiphilic calix[4]resorcinolarenes and phenols in hydrolysis of phosphonous esters in water—dimethylformamide media, **12**, 2183

Aglycons

Steroid polyols from the Far-Eastern starfish *Henricia sanguinolenta*, **12**, 2295

Agonists

Nitric oxide synthase inhibitors: biology and chemistry (review), **11**, 1973

Alanine

Metal-dependent stereochemistry of C—C bond formation under the asymmetric phase transfer catalysis by chiral salen complexes, **11**, 2086

Albumin

Effect of acidity of the medium and polarization of the surface on albumin adsorption by carbon fibers, **6**, 1006

Oxidation of ascorbic acid in the presence of phthalocyanine metal complexes. Chemical aspects of catalytic anticancer therapy. 1. Catalysis of oxidation by cobalt octacarboxyphthalocyanine, **7**, 1231

Alcohols

Interaction of 2,2,6,6-tetramethylpiperidine-1-oxyl chlorite with alcohols, **6**, 982

The $Mn(acac)_3-RCN-CCl_4$ system as a new efficient reagent for the oxidation of secondary alcohols into ketones, **6**, 1065

Estimation of dissociation energies of C—H bonds in oxygen-containing compounds from kinetic data for radical abstraction reactions, **9**, 1641

N- and *O*-Alkylation of 3-indolylcyclopropylacetic acid derivatives, **10**, 1829

Aldehydes

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Enzymatic dissymmetrization of *meso*-2,3-di-methylbutane-1,4-diol and its diacetate. Synthesis of scalemic (–)-lasiol, **3**, 481

Synthesis of chromenes with isoprenoid side chains and their selective ozonolysis, **3**, 526

Estimation of dissociation energies of C—H bonds in oxygen-containing compounds from kinetic data for radical abstraction reactions, **9**, 1641

Generation of alkyl hypochlorites in oxidation of alcohols with carbon tetrachloride catalyzed by vanadium and manganese compounds, **11**, 2074

New method for the synthesis of indenenes, **11**, 2090

One-step synthesis of substituted 2-amino-4*H*-chromenes and 2-amino-4*H*-benzo[*f*]chromenes. Molecular and crystal structure of 2-amino-3-cyano-6-hydroxy-4-phenyl-4*H*-benzo[*f*]chromene, **12**, 2238

Aldimines

Study of alkaloids of the Siberian and Altai flora. 7. Synthesis of 18-amino-18-deoxy derivatives of elatidine, **3**, 531

Study of alkaloids of the Siberian and Altai flora. 9. Synthesis of amino derivatives of elatidine, **12**, 2290

Aldonitrones

Dipole-stabilized carbanions in the series of cyclic aldonitrones. 3. The influence of the configuration of the nitrone group on H—D exchange of the methine hydrogen atom and metallation of aldonitrones, **2**, 297

Aldose thiosemicarbazones

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

Aldoximes

Synthesis of carbamoylformhydroxymoyl chlorides and study of their reactivities, **8**, 1504

Aliphatic amino linkers

Oligoribonucleotides containing an aminoalkyl group at the N(4) atom of cytosine as precursors of new reagents for site-specific modifications of biopolymers, **7**, 1194

Alkali metals

Synthesis of crown-containing 2-styrylbenzothiazoles. Effect of alkali metal cations on the condensation of crown-ether benzaldehydes with 2-methylbenzothiazole, **2**, 319

Alkaline-earth metals

Crown-containing spironaphthoxazines and spiropyran. 2. Influence of metal cations on the photochromic properties of spironaphthoxazines linked with aza-15(18)-crown-5(6) ethers, **1**, 58

Simulation of optical response to complex formation of crown-containing 2-styrylbenzothiazoles with alkaline-earth metals, **5**, 789

Crown-containing spironaphthoxazines and spiropyran. 3. Synthesis and investigation of the merocyanine form of crown-containing spirobenzothiazolinonaphthoxazine, **8**, 1441

Alkaloids

Reactions of 5-dihydrocotarnyl-1,3-dimethylbarbituric acid and other cotarnine derivatives with 1,3-dimethylbarbituric acid. X-ray diffraction analysis of a 5,5-spiro derivative of 1,3-dimethylbarbituric acid, **8**, 1540

Alkanethiols

Nitro derivatives of cyclic sulfoximides of the 1,2-benzothiazole series, **8**, 1549

Alkanoic acids

A new method for synthesis of *n*-(3-acyloxypropyl)-substituted six- to thirteen-membered alkan-*n*-olides, **10**, 1806

Alkenes

Halogenation of 2-alkyl-2-azabicycloalkenes as a method for the synthesis of stable aziridinium salts of a new class, **7**, 1254

Fluorinated cyclohexadienones as versatile synthons for preparation of organofluorine compounds (review), **10**, 1775

Alkynylsulfenylation of alkenes activated by phosphorus oxohalide, **10**, 1970

Three-component cyclization of hydroxylamino-substituted quinoline with reactive methylene compounds and formaldehyde: new method for the synthesis of 7-(isoxazolidin-2-yl)-6-fluoroquinolones, **11**, 2106

Alkenylanilines

Negative-ion mass spectra of some *N*-mesyl derivatives of *o*-(cycloalk-2-enyl)-, *o*-(cycloalk-1-enyl)-, *o*-(pent-2-enyl)-, *o*-dibromopentylanilines and (α -bromoalkyl)indolines, **12**, 2299

Alkoxo method

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

Alkoxyfurazans

Nucleophilic substitution in the furazan series. Reactions of nitrofurazans with ammonia, **8**, 1533

Alkyl alkynyl sulfides

Alkynylsulfenylation of alkenes activated by phosphorus oxohalide, **10**, 1970

Alkyl carboranylacetates

Pd-Catalyzed asymmetric allylation of an *o*-carborane derivative, **3**, 513

Alkyl halides

The reactivity of 2,2'-bipyridine complexes in the electrochemical reduction of organohalides, **5**, 796

Alkyl hypochlorites

The Mn(acac)₃-RCN-CCl₄ system as a new efficient reagent for the oxidation of secondary alcohols into ketones, **6**, 1065

Generation of alkyl hypochlorites in oxidation of alcohols with carbon tetrachloride catalyzed by vanadium and manganese compounds, **11**, 2074

Alkyl 5-oxopyrido[2,3-*d*]pyrimidine-7-carboxylates

Simple synthesis of alkyl 5-oxo-5,8-dihydropyrido[2,3-*d*]pyrimidine-7-carboxylates from 5-acetyl-4-aminopyrimidines, **10**, 1875

Alkyl polyfluoroalkenyl sulfides

Chlorolysis of β -functionalized alkyl polyfluoroalkenyl sulfides, **6**, 1031

Alkylarylamines

Arylsulfenylation of *N*-isobutylaniline and its derivatives: experimental study and quantum-chemical calculations, **12**, 2157

5-Alkyl(aryl)-3-arylidene-3*H*-furan-2-ones

Synthesis of arylidene derivatives of *N*-unsubstituted pyrrolin-2-ones, **1**, 183

5-Alkyl(aryl)-3-arylidene-3*H*-pyrrolin-2-ones

Synthesis of arylidene derivatives of *N*-unsubstituted pyrrolin-2-ones, **1**, 183

Alkylation

Synthesis of α -alkyl- and α,α -dialkyl- β -phenyltryptamines, **1**, 185

Redox properties of N₂S₂-type nickel complexes with aromatic ligands. Crystal structure of [1,2-C₆H₄(SMe)NH₂]₂Ni²⁺(MeCN)₂ • 2ClO₄⁻, **3**, 467

Synthesis of chromenes with isoprenoid side chains and their selective ozonolysis, **3**, 526

Transformations of spirocyclooligomers of 1,3-bis(ferrocenylmethylidene)-2-methylidenecycloalkanes in acid medium, **4**, 691

Mechanism of reaction of *n*-butane with but-2-enes in the presence of LaCaX faujasites, **5**, 783

Application of the Thorpe—Ziegler reaction for the synthesis of functionalized thiophenes, thienopyrimidines, and thienotriazines, **5**, 854

Heterocyclic analogs of pleiadene. 70. Synthesis of 6-hydroxy-1,3-diazapyrenes, **5**, 860

Chromium arene complexes in synthesis of *trans*-resveratrol, **7**, 1319

Synthesis of 1,3,5-trisubstituted 1,2,4-triazolio-4-nitroimidides, **7**, 1332

Anilinomethylidene derivatives of cyclic 1,3-dicarbonyl compounds in the synthesis of new sulfur-containing pyridines and quinolines, **8**, 1556

- Halo-substituted (*S*)-*N*-(2-benzoylphenyl)-1-benzylpyrrolidine-2-carboxamides as new chiral auxiliaries for the asymmetric synthesis of (*S*)- α -amino acids, **8**, 1593
- Synthesis and hydroxydeamination in the series of 6-aryl- and 6-benzoimidazolyl-7-aminoazolo[5,1-*c*]-1,2,4-triazines, **9**, 1737
- N*- and *O*-Alkylation of 3-indolylcyclopropylacetic acid derivatives, **10**, 1829
- Synthesis of thieno[3,4-*d*]pyrimidines by the reactions of 3-amino-4-carbamoylthiophene derivatives with 1,3-dicarbonyl compounds, **10**, 1879
- A convenient method for the synthesis of cationic glycerolipids with potential biological activity, **10**, 1931
- The influence of the sacrificial anode nature on the mechanism of electrochemical arylation and alkylation of white phosphorus, **11**, 2059
- Metal-dependent stereochemistry of C—C bond formation under the asymmetric phase transfer catalysis by chiral salen complexes, **11**, 2086
- Alkylation of acetylene by *tert*-butyl alcohol, **11**, 2134
- Formation and properties of a catalyst based on sodium and potassium hydroxides in the reaction of 2,6-di-*tert*-butylphenol with methyl acrylate, **12**, 2189
- Synthesis of 1-substituted (*R,S*)-8-(2-methoxy-5-methylphenyl)-3,3,9-trimethyl-2-azaspiro[4.5]deca-1,7-dien-6-ones, **12**, 2234
- Alkylation gasoline**
Mechanism of reaction of *n*-butane with but-2-enes in the presence of LaCaX faujasites, **5**, 783
- Alkylencarbonates**
8-Hydroxyquinolates of trivalent metals as new catalysts for the reaction of CO₂ with epoxides, **5**, 836
- Alkylidene**
Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1
- 1-Alkylidene(arylidene)amidrazoniium salts**
Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205
- 1-Alkylidene(arylidene)aminoguanidinium salts**
Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205
- 1-Alkylidene(arylidene)isothiosemicarbazonium salts**
Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205
- Alkylidyne**
Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1
- Alkylphosphines**
PCP pincer ligands based on metallocenes. Crystal structure of the rhodium complex *cis*-RhCl₂(CO)[{2,5-(Prⁱ₂PCH₂)₂C₅H₂}Fe(C₅H₅)], **6**, 1077
- Alkyls**
Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1
- Reactions of mono- and bimolecular hydrogen transfer in alkyl radicals: analysis using the parabolic model and density functional calculations, **4**, 602
- Alkynes**
Cross-coupling of aryl iodides with paramagnetic terminal acetylenes derived from 4,4,5,5-tetramethyl-2-imidazoline-1-oxyl 3-oxide, **1**, 128
Synthesis of alkynylbenzo-15-crown-5 ethers, **9**, 1720
Fluorinated cyclohexadienones as versatile synthons for preparation of organofluorine compounds (review), **10**, 1775
- (Alk-1-ynyl)halocarbenes**
Alkynylhalocarbenes. 4. Generation of (alk-1-ynyl)halocarbenes from 3-substituted 1,1,1,3-tetrahalopropanes under the action of bases, **7**, 1237
- (Alk-1-ynyl)halocyclopropanes**
Alkynylhalocarbenes. 4. Generation of (alk-1-ynyl)halocarbenes from 3-substituted 1,1,1,3-tetrahalopropanes under the action of bases, **7**, 1237
- Alkynylsulfenamides**
Alkynylsulfenylation of alkenes activated by phosphorus oxohalide, **10**, 1970
- Alkynylsulfenylation**
Alkynylsulfenylation of alkenes activated by phosphorus oxohalide, **10**, 1970
- Allenes**
Acetylene—allene rearrangement of propargyl systems X—CH₂—C≡CH (X = H, Me, NMe₂, OMe, F, SMe): an *ab initio* study, **5**, 774
Synthesis and transformations of metallacycles. 28. Reactions of allenes with EtAlCl₂ and Et₂AlCl catalyzed by Ti and Zr complexes, **12**, 2255
- Allyl carbonates**
Pd-Catalyzed asymmetric allylation of an *o*-carborane derivative, **3**, 513
- Allyl lactoside**
Conceivably the first example of a phase transition in aqueous solutions of oligosaccharide glycosides. Evidence from variable-temperature ¹H NMR and optical rotation measurements for a solution of allyl lactoside, **7**, 1337
- Allylation**
Pd-Catalyzed asymmetric allylation of an *o*-carborane derivative, **3**, 513
Palladium-catalyzed asymmetric allylation and complex formation involving *P,N*-bidentate derivatives of (*S*)-2-(anilinomethyl)pyrrolidine, **3**, 521
- Allylboration**
Stereoselective synthesis of *cis*-4,7-disubstituted 4,7-dihydroxy-4,7-dihydro[2.2]paracyclophanes, **8**, 1483
- Allylic alcohols**
Synthesis of chromenes with isoprenoid side chains and their selective ozonolysis, **3**, 526
- Allylic thiocarbamates**
First quinine-based aryl phosphite: synthesis and application in the Pd-catalyzed enantioselective rearrangement of allylic thiocarbamate, **9**, 1748
- Aluminacyclopentanes**
Synthesis and transformations of metallacycles. 28. Reactions of allenes with EtAlCl₂ and Et₂AlCl catalyzed by Ti and Zr complexes, **12**, 2255

Aluminacyclopropanes

Synthesis and transformations of metallacycles. 28. Reactions of allenes with EtAlCl₂ and Et₂AlCl catalyzed by Ti and Zr complexes, **12**, 2255

Aluminoxanes

Chemiluminescence activated by the Tb³⁺ ion in (BuⁱAl)₂O aluminoxane oxidation with dioxygen in toluene, **5**, 904

Aluminum compounds

Replacement of an oxygen atom by chlorine atoms in the reaction of pentafluorobenzaldehyde with CCl₃-substituted compounds in the presence of AlCl₃, **3**, 544

8-Hydroxyquinolates of trivalent metals as new catalysts for the reaction of CO₂ with epoxides, **5**, 836

Influence of the texture of chromia catalysts on their activity in synthesis of 2-methylthiophene, **9**, 1694

Amides

Oncogene mRNA imaging with ^{99m}Tc-chelator-PNA-peptides (review), **7**, 1083

Synthesis of indole-containing analogs of (1*R*)-*cis*-chrysanthemic acid and *N*-substituted (1*R*)-*cis*-chrysanthemylamines, **7**, 1308

N- and *O*-Alkylation of 3-indolylcyclopropylacetic acid derivatives, **10**, 1829

Amidines

Reactions of α -fluorine-containing β -functionalized vinyl sulfides with N-nucleophiles, **6**, 1020

Amidoximes

Synthesis of carbamoylformhydroxymoyl chlorides and study of their reactivities, **8**, 1504

Synthesis of 3-carbamoyl-1,2,4-oxadiazoles, **10**, 1857

Amidrazones

1,2,4-Triazino[5,6,1-*i,j*]quinolines: a new type of tricyclic analogs of fluoroquinolones, **4**, 663

Electron spin and electron nuclear double resonances of the stable 1-(4-nitrophenyl)-3-phenyl-1,4-dihydro-1,2,4-benzotriazin-4-yl free radical, **10**, 1796

Aminals

Reactions of nitrogenous derivatives of substituted salicylaldehydes with cyclic ketones and enamines, **7**, 1262

Amine complexes

New polyfunctional silicon-containing amines C₆[CH₂CH₂SiMe(OCH₂CH₂NR₂)₂]₆ (R = H, Me) and their reactions with cobalt(II) chloride and dicobalt octacarbonyl, **12**, 2277

Amines

Reactions of tautomeric quaternary phosphonium salts based on triphenylphosphine and 3-phenylpropargyl bromide with nitrogen nucleophiles, **1**, 148

Reactions of α -fluorine-containing β -functionalized vinyl sulfides with N-nucleophiles, **6**, 1020

Reactions of secondary amines with derivatives of 5-(2-methyl-3-furyl)cyclopent-2-en-1-one, **6**, 1068

2-Phenyl-1-boraadamantane complexes. Crystal structure and use in the synthesis of cage compounds, **8**, 1562

Amino acids

Halo-substituted (*S*)-*N*-(2-benzoylphenyl)-1-benzylpyrrolidine-2-carboxamides as new chiral auxiliaries for the asymmetric synthesis of (*S*)- α -amino acids, **8**, 1593

Metal-dependent stereochemistry of C—C bond formation under the asymmetric phase transfer catalysis by chiral salen complexes, **11**, 2086

Amino phosphites

Pd-Catalyzed asymmetric allylation of an *o*-carborane derivative, **3**, 513

2-Aminoacetophenone

Synthesis of 1-(2-polyfluoroacylamino)phenyl)-3-polyfluoroalkylpropane-1,3-diones and 2-polyfluoroalkyl-4-quinolones, **11**, 2109

2-Aminobenzothiazole

Synthesis of 2-(imidazolylamino)benzothiazoles, **3**, 547

2-Amino-3-cyano-6-hydroxy-4-phenyl-4*H*-benzo[*f*]chromene

One-step synthesis of substituted 2-amino-4*H*-chromenes and 2-amino-4*H*-benzo[*f*]chromenes. Molecular and crystal structure of 2-amino-3-cyano-6-hydroxy-4-phenyl-4*H*-benzo[*f*]chromene, **12**, 2238

6-Amino-2,3-dihydro-4-pyrone-3-spirocyclohexane

Unexpected synthesis of 6-amino-2,3-dihydro-4-pyrone-3-spirocyclohexane, **1**, 181

2-Aminodiphenylamine

Reactions of pyrrole-2,5-dicarbaldehyde with 2-aminodiphenylamine in the presence of nickel and cobalt trimethylacetates, **8**, 1575

Aminofurazans

Nucleophilic substitution in the furazan series. Reactions of nitrofurazans with ammonia, **8**, 1533

9-Aminomethylanthracene

Sensitized photomodification of oligonucleotide-binding proteins displayed on the eucaryotic cell surface, **7**, 1198

Aminomethylated calix[4]resorcinolarenes

The aggregation and catalytic activity of amphiphilic calix[4]resorcinolarenes and phenols in hydrolysis of phosphonous esters in water—dimethylformamide media, **12**, 2183

Aminomethylation

Diastereoselective synthesis of substituted 1,3,6-triazabicyclo[3.1.0]hexanes, **8**, 1497

Aminomethylphosphines

Synthesis of new macrocyclic aminomethylphosphines based on 4,4'-diaminodiphenylmethane and its derivatives, **1**, 151

Aminophosphites

Palladium-catalyzed asymmetric allylation and complex formation involving *P,N*-bidentate derivatives of (*S*)-2-(anilino)methylpyrrolidine, **3**, 521

Aminophospholene oxides

Reactions of dibenzylphosphine oxide with α,β -unsaturated nitriles: synthesis of aminophospholene oxides, **4**, 671

 β -Aminopropionamidoximes

Cyclization of *O*-benzoyl- β -piperidinopropionamidoximes to form 5-phenyl-3-(β -piperidino)ethyl-1,2,4-oxadiazoles, **11**, 2100

3-Aminopyrazoles

Synthesis of (7-polyfluoroalkyl)pyrazolo[1,5-*a*]pyrimidines based on lithium fluorine-containing β -diketonates, **2**, 332

2-Aminothioanisole

Redox properties of N₂S₂-type nickel complexes with aromatic ligands. Crystal structure of [1,2-C₆H₄(SMe)NH₂]₂Ni²⁺(MeCN)₂ · 2ClO₄⁻, **3**, 467

3-Aminothiophenes

Synthesis of substituted thiophenes based on fluorine-containing β -functionalized vinyl sulfides, **6**, 1028

 β -Aminovinyl ketones

Synthesis and structures of nickel(II) complexes with thioether-containing β -aminovinyl ketones, **10**, 1924

Ammine complexes

First example of the cluster ammine complex $[\text{Re}_6\text{Se}_7\text{Br}(\text{NH}_3)_6]^{3+}$: synthesis and structure of the $[\text{Re}_6\text{Se}_7\text{Br}(\text{NH}_3)_6][\text{Re}_6\text{Se}_7\text{BrBr}_6] \cdot 12\text{H}_2\text{O}$ salt, **10**, 1919

Ammonia

Ammonia and carbon dioxide permeability through perfluorosulfonic membranes, **2**, 275

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

Nucleophilic substitution in the furazan series. Reactions of nitrofurazans with ammonia, **8**, 1533

Ammonolysis

Synthesis of arylidene derivatives of *N*-unsubstituted pyrrolin-2-ones, **1**, 183

Amphiphilic compounds

Conceivably the first example of a phase transition in aqueous solutions of oligosaccharide glycosides. Evidence from variable-temperature ^1H NMR and optical rotation measurements for a solution of allyl lactoside, **7**, 1337

The aggregation and catalytic activity of amphiphilic calix[4]resorcinolarenes and phenols in hydrolysis of phosphonous esters in water—dimethylformamide media, **12**, 2183

Anilines

Selective reduction of the nitro group in the presence of the azoxy group. Synthesis of 2-(alkyl-*NNO*-azoxy)anilines, **2**, 311

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Anions

N-Dimethoxyphenylation of highly basic pyrazoles during undivided electrolysis, **6**, 998

N-Arylation of azoles with low basicity by 1,4-dimethoxybenzene during undivided electrolysis, **8**, 1523

Selective reduction of fullerene C_{60} with metals in neutral and alkaline media. Interaction of C_{60} with KOH, **11**, 2003

Anisole

Spirocyclohexadienones. 6. Three-component synthesis of 1-*R*-3,3-dimethyl-2-azaspiro[4.5]deca-1,6,9-trien-8-ones, **5**, 894

Anomeric effect

The Mills—Nixon and anomeric effects in 2,3-dihydro-1*H*-1,3,2-benzodiazaphospholes: a gas-phase electron diffraction study of $\text{C}_6\text{H}_4(\text{NMe})_2\text{PCl}$ using quantum-chemical data and "a priori" force field, **11**, 2014

Antagonists

Nitric oxide synthase inhibitors: biology and chemistry (review), **11**, 1973

Anthracene

Site-specific synthetic ribonucleases based on oligonucleotide conjugates with metal-independent organic catalysts of hydrolysis of phosphodiester bonds (review), **7**, 1112

Anthracene-9-carbaldehyde

Synthesis of new functionally substituted fullereno-pyrrolidines, **9**, 1723

Anticancer therapy

Oxidation of ascorbic acid in the presence of phthalocyanine metal complexes. Chemical aspects of catalytic anticancer therapy. 1. Catalysis of oxidation by cobalt octacarboxyphthalocyanine, **7**, 1231

Antimony compounds

^{123}Sb NQR and ^{19}F NMR study of potassium, rubidium, and cesium heptafluorodiantimonates(III), **11**, 1996

Antisense approach

Chimeric oligonucleotides based on 2'-*O*-modified oligoribonucleotides with the terminal 3'-3' internucleotide linkage as potential inhibitors of *MDR1* gene expression, **7**, 1217

Antisense knockdown

Biological efficacy of antisense oligonucleotides complementary to overlapping regions of the mRNA target (review), **7**, 1118

Aqua complexes

Synthesis and crystal structure of supramolecular adduct of tetranuclear uranyl chloride aquacomplex with macrocyclic cavitand cucurbituril, **2**, 346

Synthesis and crystal structures of supramolecular adducts of molybdenum and tungsten selenide aqua complexes with macrocyclic cavitand cucurbituril, **10**, 1800

Synthesis and crystal structure of the nanosized supramolecular Sm^{III} complex with macrocyclic cavitand cucurbituril $\{\text{Sm}(\text{H}_2\text{O})_4\}_2(\text{C}_{36}\text{H}_{36}\text{N}_{24}\text{O}_{12})_3\text{Br}_6 \cdot 44\text{H}_2\text{O}$, **10**, 1915

Aquaporin

Structure-functional organization of mouse aquaporin 4 gene, **7**, 1122

Aqueous solutions

Binding of cyclic compounds by starch cryotextures from aqueous solutions, **9**, 1689

Arene complexes

High-resolution and cross-polarization magic angle spinning NMR studies of tricarbonylchromium complexes with polycyclic aromatic ligands (review), **6**, 907

(Arene)ruthenium complexes with the monoanionic carborane ligand $[\text{9-SMe}_2\text{-7,8-C}_2\text{B}_9\text{H}_{10}]^-$, **10**, 1928

 Arenesulfenamides

Reaction of bicyclo[2.2.1]hepta-2,5-diene with the arenesulfenamide—phosphorus(V) oxohalide system: chemo-, regio-, and stereoselectivity, **8**, 1468

 Arenesulfonyl chlorides

Arylsulfonylation of *N*-isobutylaniline and its derivatives: experimental study and quantum-chemical calculations, **12**, 2157

L-Arginine

Exogenous donors of nitric oxide (a chemical aspect) (review), **8**, 1375

Argon

Calibration functions in approximate simulations of equilibrium adsorption characteristics, **9**, 1667

Concentration dependences of heat conductivity coefficients of inert gases in narrow pores, **11**, 2026

Adsorption of surfactants on superfine magnetite, **11**, 2044

Aromatic aldehydes

Synthesis of arylidene derivatives of *N*-unsubstituted pyrrolin-2-ones, **1**, 183

Condensation of polyfluorinated β -diimines with aromatic aldehydes, **4**, 712

Indolopyridines containing a bridgehead heteroatom. 12. Synthesis and reduction of 12-arylidene-5,6-dihydroindolo[2,1-*a*]isoquinolinium trifluoroacetates, **11**, 2116

Aromatic compounds

New unsymmetrical difluoroaromatic compounds and estimation of their reactivities in nucleophilic substitution, **1**, 117

Specific chemical behavior of Nd^{III} and Dy^{III} iodides in reactions with aromatic compounds, **10**, 1909

The aggregation and catalytic activity of amphiphilic calix[4]resorcinolarenes and phenols in hydrolysis of phosphonous esters in water—dimethylformamide media, **12**, 2183

Aromatic ligands

Redox properties of N₂S₂-type nickel complexes with aromatic ligands. Crystal structure of [1,2-C₆H₄(SMe)NH₂]₂Ni²⁺(MeCN)₂ • 2ClO₄⁻, **3**, 467

Aroylacetonitriles

Synthesis of 3-acetyl-4-amino-6-arylpyran-2-ones and ethyl 7-aryl-4,5(1*H*,5*H*)-dioxopyrano[4,3-*b*]pyridine-2-carboxylates, **3**, 503

On the reactions of aroylacetonitriles with acetoacetates, **8**, 1545

Aroyl(imidoyl)ketene

Chemistry of acyl(imidoyl)ketenes. 7. Synthesis and thermolysis of 5-aryl-4-quinoxaliny-2,3-dihydrofuran-2,3-diones, **5**, 850

Arsenic ylides

Heteroorganic betaines. 8. Synthesis and structures of silicon- and germanium-containing organoarsenic betaines R₃As⁺—CR²R³—EMe₂—S⁻ (E = Si, Ge), **4**, 678

Arsine oxides

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Aryl halides

Cross-coupling of aryl iodides with paramagnetic terminal acetylenes derived from 4,4,5,5-tetramethyl-2-imidazoline-1-oxyl 3-oxide, **1**, 128

The reactivity of 2,2'-bipyridine complexes in the electrochemical reduction of organohalides, **5**, 796

Synthesis of novel linear exo-bidentate bispyridine ligands and their complexes with silver(I) tetrafluoroborate, **10**, 1957

Aryl isocyanates

Palladium nitrosoarene complexes in reductive carbonylation of nitroarenes, **12**, 2286

Arylacetic acids

Fluorinated cyclohexadienones as versatile synthons for preparation of organofluorine compounds (review), **10**, 1775

3-Arylamino-2-formylindole

Synthesis and properties of [1,4]diazepino[6,5-*b*]indoles, **3**, 506

Arylation

Electrochemical arylation of cobalt and nickel chelates with diphenyliodonium salts, **1**, 85

Reactions of the Ru₃(CO)₁₀(μ -Ph₂PCH₂PPh₂) cluster with enynes RCH=CHC \equiv CR (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

N-Dimethoxyphenylation of highly basic pyrazoles during undivided electrolysis, **6**, 998

N-Arylation of azoles with low basicity by 1,4-dimethoxybenzene during undivided electrolysis, **8**, 1523

The influence of the sacrificial anode nature on the mechanism of electrochemical arylation and alkylation of white phosphorus, **11**, 2059

6-Aryl-5-cyano-4-methylpyran-2-ones

On the reactions of aroylacetonitriles with acetoacetates, **8**, 1545

3-Aryl-6-hetaryl-1,2,4-triazin-5(2*H*)-ones

Easy formation of S_N^H products in reactions of indoles and pyrroles with 3-aryl-1,2,4-triazin-5(2*H*)-ones in the presence of tosyl chloride, **6**, 1042

12-Arylidene-5,6-dihydroindolo[2,1-*a*]isoquinolinium trifluoroacetates

Indolopyridines containing a bridgehead heteroatom. 12. Synthesis and reduction of 12-arylidene-5,6-dihydroindolo[2,1-*a*]isoquinolinium trifluoroacetates, **11**, 2116

Arylidenemalononitriles

Reactions of cyclic enehydrazino ketones with arylidene-malononitriles. Synthesis of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1862

Synthesis of 12-aryl-1-oxo-1,2,3,4,5,12-hexahydroindolo[2,1-*b*]quinazoline-6-carbonitriles by recyclization of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1869

11-Aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles

Reactions of cyclic enehydrazino ketones with arylidene-malononitriles. Synthesis of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1862

Synthesis of 12-aryl-1-oxo-1,2,3,4,5,12-hexahydroindolo[2,1-*b*]quinazoline-6-carbonitriles by recyclization of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1869

12-Aryl-1-oxo-1,2,3,4,5,12-hexahydroindolo[2,1-*b*]quinazoline-6-carbonitriles

Synthesis of 12-aryl-1-oxo-1,2,3,4,5,12-hexahydroindolo[2,1-*b*]quinazoline-6-carbonitriles by recyclization of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1869

Aryl(pyridinyl)methanones

Synthesis of 2- and 3-pyridinyl(aryl)methanones, **3**, 540

Arylsulfonylation

Arylsulfonylation of *N*-isobutylaniline and its derivatives: experimental study and quantum-chemical calculations, **12**, 2157

3-Aryl-1,2,4-triazin-5-ones

Easy formation of S_N^H products in reactions of indoles and pyrroles with 3-aryl-1,2,4-triazin-5(2*H*)-ones in the presence of tosyl chloride, **6**, 1042

2-Aryl-1,2,3-triazoles

New rearrangement of benzo[*d*]isoxazoles: recyclization of 4-*R*-6-nitrobenzo[*d*]isoxazole-3-carbaldehyde arylhydrazones into 2-aryl-4-(2-hydroxy-4-nitro-6-*R*-phenyl)-1,2,3-triazoles, **8**, 1519

Ascorbic acid

Oxidation of ascorbic acid in the presence of phthalocyanine metal complexes. Chemical aspects of catalytic anticancer therapy. 1. Catalysis of oxidation by cobalt octacarboxyphthalocyanine, **7**, 1231

Asterosaponins

Steroid polyols from the Far-Eastern starfish *Henricia sanguinolenta*, **12**, 2295

Asymmetric synthesis

Pd-Catalyzed asymmetric allylation of an *o*-carborane derivative, **3**, 513

Palladium-catalyzed asymmetric allylation and complex formation involving *P,N*-bidentate derivatives of (*S*)-2-(anilinoethyl)pyrrolidine, **3**, 521

Halo-substituted (*S*)-*N*-(2-benzoylphenyl)-1-benzylpyrrolidine-2-carboxamides as new chiral auxiliaries for the asymmetric synthesis of (*S*)- α -amino acids, **8**, 1593

Metal-dependent stereochemistry of C—C bond formation under the asymmetric phase transfer catalysis by chiral salen complexes, **11**, 2086

Atomic charges

On the possibility of existence of η^4 - π -complexes of corannulene (C₂₀H₁₀) and C₆₀ fullerene derivatives, **2**, 230

Autoxidation

Chemiluminescence activated by the Tb³⁺ ion in (Bu^{*i*},Al)₂O aluminum oxide oxidation with dioxygen in toluene, **5**, 904

Azabicyclic compounds

Halogenation of 2-alkyl-2-azabicycloalkenes as a method for the synthesis of stable aziridinium salts of a new class, **7**, 1254

Azacrown ethers

Spin exchange between transition metal complexes and nitroxyl radicals in nonaqueous media, **12**, 2207

Azadienes

Cascade cycloaddition reactions involving dimethylhydrazones of α -substituted acroleins, **2**, 326

Azapodands

Synthesis of nitrobenzoazacrown compounds by ring transformations of nitrobenzocrown ethers, **7**, 1335

Azaspirocyclic compounds

Ring-closing metathesis of 2,2-diallyl derivatives of pyrrolidine and piperidine: a route to azaspiroheterocyclic structures, **4**, 645

2-Azaspiro[4.5]decane

Synthesis of 1-substituted (*R,S*)-8-(2-methoxy-5-methylphenyl)-3,3,9-trimethyl-2-azaspiro[4.5]deca-1,7-dien-6-ones, **12**, 2234

Azidation

Oxidative coupling of the azide ion with anions of primary nitroalkanes. Synthesis of 1-azido-1-nitroalkanes, **8**, 1466

Azides

Oxidative coupling of the azide ion with anions of primary nitroalkanes. Synthesis of 1-azido-1-nitroalkanes, **8**, 1466

2-Phenyl-1-boradamantane complexes. Crystal structure and use in the synthesis of cage compounds, **8**, 1562

Azidoalkyl isocyanurate

Synthesis of a single isomer of the bis-adduct of isocyanurate-substituted azide with [60]fullerene, **8**, 1491

1-Azido-1-nitroalkanes

Oxidative coupling of the azide ion with anions of primary nitroalkanes. Synthesis of 1-azido-1-nitroalkanes, **8**, 1466

4-Azido-2,3,5,6-tetrafluorobenzaldehyde *N*-(3-aminopropionyl)hydrazone

Sensitized photomodification of oligonucleotide-binding proteins displayed on the eucaryotic cell surface, **7**, 1198

Aziridines

Halogenation of 2-alkyl-2-azabicycloalkenes as a method for the synthesis of stable aziridinium salts of a new class, **7**, 1254

Azo coupling

Synthesis and hydroxydeamination in the series of 6-aryl- and 6-benzoimidazolyl-7-aminoazolo[5,1-*c*]-1,2,4-triazines, **9**, 1737

Azoles

N-Arylation of azoles with low basicity by 1,4-dimethoxybenzene during undivided electrolysis, **8**, 1523

Azomethine oxide

Three-component cyclization of hydroxylamino-substituted quinoline with reactive methylene compounds and form-aldehyde: new method for the synthesis of 7-(isoxazolidin-2-yl)-6-fluoroquinolones, **11**, 2106

Azomethines

Potentially hexadentate bisazine dioximate ligands: "correct" synthetic procedure and encapsulation reactions of the iron(II) ion, **6**, 1015

Reactions of nitrogenous derivatives of substituted salicylaldehydes with cyclic ketones and enamines, **7**, 1262

Azonitricycloalkanes

Halogenation of 2-alkyl-2-azabicycloalkenes as a method for the synthesis of stable aziridinium salts of a new class, **7**, 1254

Azoxy compounds

Selective reduction of the nitro group in the presence of the azoxy group. Synthesis of 2-(alkyl-*NNO*-azoxy)anilines, **2**, 311

B**Baeyer reaction**

Three-component synthesis of 3,4-dihydroisoquinoline derivatives, **5**, 844

Baeyer–Villiger reaction

A new method for synthesis of *n*-(3-acyloxypropyl)-substituted six- to thirteen-membered alkan-*n*-olides, **10**, 1806

Basicity

Synthesis, acid-base and spectral properties of 3-(benzimidazol-2-yl)-2-phenylimino-2*H*-chromenes, **11**, 2070

Beckmann rearrangement

Cyclization of *O*-benzoyl- β -piperidinopropionamidoximes to form 5-phenyl-3-(β -piperidino)ethyl-1,2,4-oxadiazoles, **11**, 2100

Benzaldehyde

Metal-dependent stereochemistry of C—C bond formation under the asymmetric phase transfer catalysis by chiral salen complexes, **11**, 2086

Benzaldoxime

Synthesis and structures of triphenylantimony oximates, **6**, 1051

Benzenes

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Elution and frontal dynamics of adsorption of organic substances on activated carbon, **9**, 1675

Features of nuclear magnetic relaxation of water and benzene molecules during absorption on activated carbons and estimation of pore size distribution in adsorbents, **11**, 2036

Benzochromene

One-step synthesis of substituted 2-amino-4*H*-chromenes and 2-amino-4*H*-benzo[*f*]chromenes. Molecular and crystal structure of 2-amino-3-cyano-6-hydroxy-4-phenyl-4*H*-benzo[*f*]chromene, **12**, 2238

Benzocrown ethers

Synthesis of 5,6-indolo-12-crown-4 ethers, **1**, 135

Synthesis of alkynylbenzo-15-crown-5 ethers, **9**, 1720

Benzofuroazepines

α -Oxolactam enamines as new synthons in the Nenitzescu reaction, **10**, 1886

Benzofuropyridines

α -Oxolactam enamines as new synthons in the Nenitzescu reaction, **10**, 1886

1,2-Benzisothiazoles

Nitro derivatives of cyclic sulfoximides of the 1,2-benzisothiazole series, **8**, 1549

Benzo[*d*]isoxazoles

New rearrangement of benzo[*d*]isoxazoles: recyclization of 4-*R*-6-nitrobenzo[*d*]isoxazole-3-carbaldehyde arylhydrazones into 2-aryl-4-(2-hydroxy-4-nitro-6-*R*-phenyl)-1,2,3-triazoles, **8**, 1519

Benzo[*b*][1,6]naphthyridine

Study of the reactions of 3-chloro-4-cyanobenzo[*b*][1,6]naphthyridine with nucleophilic reagents, **11**, 2121

3,1-Benzooxazines

Oxidation of *N*-acyl-2-(cycloalk-1-enyl)anilines with ozone and hydrogen peroxide, **1**, 124

1,4-Benzoquinones

Synthesis of chromenes with isoprenoid side chains and their selective ozonolysis, **3**, 526

Benzo[*e*]-1,2,3,4-tetrazine 1,3-di-*N*-oxides

First example of the formation of bipolar spiro σ -complexes from 6-bromo-5,7-dinitrobenzo[*e*]-1,2,3,4-tetrazine 1,3-di-*N*-oxide, **4**, 668

Benzo-1,2,3,4-tetrazines

Nitration and bromination of benzo-1,2,3,4-tetrazine 1,3-dioxides, **10**, 1841

Nucleophilic substitution in benzo-1,2,3,4-tetrazine 1,3-dioxides, **10**, 1849

Benzothiazole-2-carboxylic acids

New approach to the synthesis of 2-carbamoylbenzothiazoles, **1**, 144

Benzothiazolylformazanes

Photochemistry of benzothiazolylformazanes in solutions, **5**, 839

Benzo[*b*]thieno[2,3-*h*][1,6]naphthyridine

Study of the reactions of 3-chloro-4-cyanobenzo[*b*][1,6]naphthyridine with nucleophilic reagents, **11**, 2121

Benzotrichloride

Replacement of an oxygen atom by chlorine atoms in the reaction of pentafluorobenzaldehyde with CCl₃-substituted compounds in the presence of AlCl₃, **3**, 544

2,1,3-Benzoxadiazole substituted

Molecular and crystal structures of 5,7-dichloro-4-nitro-2,1,3-benzoxadiazole and products of its reactions with secondary amines, **1**, 105

***O*-Benzoyl- β -piperidinopropionamidoximes**

Cyclization of *O*-benzoyl- β -piperidinopropionamidoximes to form 5-phenyl-3-(β -piperidino)ethyl-1,2,4-oxadiazoles, **11**, 2100

1-Benzyl-2,2-di(2-propenyl)piperidine

Ring-closing metathesis of 2,2-diallyl derivatives of pyrrolidine and piperidine: a route to azaspiroheterocyclic structures, **4**, 645

1-Benzyl-2,2-di(2-propenyl)pyrrolidine

Ring-closing metathesis of 2,2-diallyl derivatives of pyrrolidine and piperidine: a route to azaspiroheterocyclic structures, **4**, 645

12-Benzylindolo[2,1-*a*]isoquinolines

Indolopyridines containing a bridgehead heteroatom. 12. Synthesis and reduction of 12-arylidene-5,6-dihydroindolo[2,1-*a*]isoquinolinium trifluoroacetates, **11**, 2116

3-Benzyl-1-methylthio-3*H*-pyrrole[2,1-*a*]isoindole-2,5-dione

Sulfur ylides. 10. Modified method for the synthesis of pyrrolizine- and indolizinediones, **1**, 189

Betaines

Heteroorganic betaines. 8. Synthesis and structures of silicon- and germanium-containing organoarsenic betaines R¹₃As⁺—CR²R³—EMe₂—S[−] (E = Si, Ge), **4**, 678

New heteroorganic betaines containing the (+)E¹⁵—C—E¹⁴—X(−) and (+)E¹⁵—C—E¹⁴(−) structural fragments (E¹⁵ = P, As; E¹⁴ = Si, Ge, Sn; X = C, S, O, NR) (review), **5**, 721

Bicyclo[2.2.1]hepta-2,5-diene

Reaction of bicyclo[2.2.1]hepta-2,5-diene with the arene-sulfenamide—phosphorus(v) oxohalide system: chemo-, regio-, and stereoselectivity, **8**, 1468

Bicyclo[2.2.2]octadienones

Fluorinated cyclohexadienones as versatile synthons for preparation of organofluorine compounds (review), **10**, 1775

Bidentate ligands

Cationic Pd^{II}, Ni^{II}, and Ru^{II} complexes in the synthesis of alternating copolymers of CO with vinyl monomers (review), **9**, 1605

Bimetallic catalysts

Cyclohexane transformations over metal oxide catalysts. 2. Selective cyclohexane ring opening to form *n*-hexane over mono- and bimetallic rhodium catalysts, **2**, 255

Bimolecular reaction

Reactions of mono- and bimolecular hydrogen transfer in alkyl radicals: analysis using the parabolic model and density functional calculations, **4**, 602

Binding constant

Binding of cyclic compounds by starch cryotextures from aqueous solutions, **9**, 1689

Bingel reaction

Retro-Bingel reaction in the electrochemical reduction of bis(dialkoxyphosphoryl)methanofullerenes, **1**, 72

Reactions of carbanions of bis(dialkoxyphosphoryl)bromomethane with fullerenes C₆₀ and C₇₀, **2**, 337

Cycloaddition to buckminsterfullerene C₆₀: advancements and future prospects (review), **3**, 367

Binuclear complexes

Binuclear and polynuclear transition metal complexes with macrocyclic ligands. 2. New macrocyclic Schiff's base in the reaction of 4-*tert*-butyl-2,6-diformylphenol with 1,2-diaminobenzene. Synthesis and structural, spectroscopic, and theoretical study, **3**, 488

ESR study of weak exchange interactions in binuclear copper(II) complexes with acyldihydrzones of fluorinated β-diketones, **4**, 632

ESR study of weak exchange interactions in binuclear copper(II) complexes with 2-hydroxyacetophenone acyldihydrzones, **12**, 2268

Synthesis and study of binuclear vanadyl complexes with acyldihydrzones of salicylaldehyde and dicarboxylic acids, **12**, 2273

Biocatalysis

Role of ligands in homogeneous catalysis based on transition metals (review), **6**, 930

Biological activity

1-Thiocarbamoyl(ferrocenyl)-4,5-dihydropyrazoles, **2**, 342

Cycloaddition to buckminsterfullerene C₆₀: advancements and future prospects (review), **3**, 367

Synthesis of 6(*E*)- and 6(*Z*)-(3-ethoxycarbonylpropyl)-oximes of 16α,17α-cyclohexanopregn-4-ene-3,6,20-trione and study of their interaction with proteins of the rat uterine cytosol and blood serum, **4**, 703

Biological efficacy of antisense oligonucleotides complementary to overlapping regions of the mRNA target (review), **7**, 1118

Structure-functional organization of mouse aquaporin 4 gene, **7**, 1122

Derivatives of the *closo*-dodecaborate anion and their application in medicine (review), **8**, 1362

Exogenous donors of nitric oxide (a chemical aspect) (review), **8**, 1375

A convenient method for the synthesis of cationic glycerolipids with potential biological activity, **10**, 1931

Biopolymers

Oligoribonucleotides containing an aminoalkyl group at the N(4) atom of cytosine as precursors of new reagents for site-specific modifications of biopolymers, **7**, 1194

2,2'-Bipyridine

Electrocatalytic reactions involving the Ni^{II}-Zn^{II}-2,2'-bipyridine system, **2**, 269

The reactivity of 2,2'-bipyridine complexes in the electrochemical reduction of organohalides, **5**, 796

Electrocatalytic reduction of organic halides with cobalt bipyridine complexes, **9**, 1702

The influence of the sacrificial anode nature on the mechanism of electrochemical arylation and alkylation of white phosphorus, **11**, 2059

***N,N*-Bis(2-chloroethyl)-4-aminobenzaldehyde**

Synthesis of new functionally substituted fullereno-pyrrolidines, **9**, 1723

Bis(dialkoxyphosphoryl)bromomethanes

Reactions of carbanions of bis(dialkoxyphosphoryl)bromomethane with fullerenes C₆₀ and C₇₀, **2**, 337

2,2'-Bis[2-(*p*-dimethylaminophenyl)indane-1,3-dione]

Free radical formation during ethylbenzene oxidation catalyzed by cetyltrimethylammonium bromide, **3**, 449

1,2-Bis(2,6-dimethyldithieno[3,2-*b*;2',3'-*d*]thiophen-3-yl)hexafluorocyclopent-1-ene

Photochromic dihetarylethenes. 18. New approach to the synthesis of dithienothiophene and preparation of its photochromic derivative, **11**, 2097

***s-cis*-1,3-Bis(ferrocenylmethylidene)-2-methylidenecycloalkanes**

Transformations of spirocycloaddimers of 1,3-bis(ferrocenylmethylidene)-2-methylidenecycloalkanes in acid medium, **4**, 691

3,3-Bis(hydroxymethyl)oxetane

The first example of heterolytic fragmentation of organic nitrates of a heterofunctional series, **12**, 2306

4,4'-Bis(hydroxymethyl)phenylphosphine

Synthesis of new macrocyclic aminomethylphosphines based on 4,4'-diaminodiphenylmethane and its derivatives, **1**, 151

2,2-Bis(hydroxymethyl)-1,3-propanediol

The first example of heterolytic fragmentation of organic nitrates of a heterofunctional series, **12**, 2306

***N,N*-Bis(silyloxy)enamines**

Chemistry of *N,N*-bis(silyloxy)enamines. 4. Study of the reactions of *N,N*-bis(silyloxy)enamines with 1,3-diones, **8**, 1455

Bleomycin

Directed cleavage of RNA within an imperfect complementary complex by oligonucleotide-bleomycin A₅ conjugates, **7**, 1187

Boiling temperature

The use of saturated vapor pressure at standard temperature in correlations of physicochemical properties, **11**, 2008

Bond energy

Simulation of the molecular and electronic structure of C₆₀ fullerene π -complex with twelve half-sandwich species FeC₅H₅, **5**, 770

Estimation of dissociation energies of C—H bonds in oxygen-containing compounds from kinetic data for radical abstraction reactions, **9**, 1641

Boraadamantanes

2-Phenyl-1-boraadamantane complexes. Crystal structure and use in the synthesis of cage compounds, **8**, 1562

Boron compounds

Derivatives of the *closo*-dodecaborate anion and their application in medicine (review), **8**, 1362

Crystal structure and fluorescence properties of *p*-nitrobenzoylanisoylmethane and its complex with boron difluoride, **9**, 1715

Bromination

Anilinomethylidene derivatives of cyclic 1,3-dicarbonyl compounds in the synthesis of new sulfur-containing pyridines and quinolines, **8**, 1556

Nitration and bromination of benzo-1,2,3,4-tetrazine 1,3-dioxides, **10**, 1841

Bromo-containing compounds

Free radical formation during ethylbenzene oxidation catalyzed by cetyltrimethylammonium bromide, **3**, 449

Synthesis and crystal structure of the nanosized supramolecular Sm^{III} complex with macrocyclic cavitand cucurbituril {[Sm(H₂O)₄]₂(C₃₆H₃₆N₂₄O₁₂)₃}Br₆ • 44H₂O, **10**, 1915

First example of the cluster ammine complex [Re₆Se₇Br(NH₃)₆]³⁺: synthesis and structure of the [Re₆Se₇Br(NH₃)₆][Re₆Se₇BrBr₆] • 12H₂O salt, **10**, 1919

N-Bromosuccinimide

Novel method for the synthesis of (trifluoromethyl)oxirane, **3**, 550

Butadiene

Acetylene—allene rearrangement of propargyl systems X—CH₂—C≡CH (X = H, Me, NMe₂, OMe, F, SME): an *ab initio* study, **5**, 774

Reactions of the Ru₃(CO)₁₀(μ -Ph₂PCH₂PPh₂) cluster with enynes RCH=CHC≡CR (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

n-Butane

Mechanism of reaction of *n*-butane with but-2-enes in the presence of LaCaX faujasites, **5**, 783

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Butane-2,3-dione oxime

Synthesis and structures of triphenylantimony oximates, **6**, 1051

Butanol

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

But-1-ene

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

But-2-enes

Mechanism of reaction of *n*-butane with but-2-enes in the presence of LaCaX faujasites, **5**, 783

Butyl acetate

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

tert-Butyl alcohol

Alkylation of acetylene by *tert*-butyl alcohol, **11**, 2134

tert-Butyl hydrogen sulfate

Alkylation of acetylene by *tert*-butyl alcohol, **11**, 2134

tert-Butyl hydroperoxide

ESR study of the thermal decomposition of di-*tert*-butoxy-*tert*-butyl alumotrioxide formed in the reaction of tri-*tert*-butoxyaluminum with *tert*-butyl hydroperoxide, **4**, 638

Synthesis and structures of triphenylantimony oximates, **6**, 1051

tert-Butylacetylene

Alkylation of acetylene by *tert*-butyl alcohol, **11**, 2134

4-tert-Butyl-2,6-diformylphenol

Binuclear and polynuclear transition metal complexes with macrocyclic ligands. 2. New macrocyclic Schiff's base in the reaction of 4-*tert*-butyl-2,6-diformylphenol with 1,2-diaminobenzene. Synthesis and structural, spectroscopic, and theoretical study, **3**, 488

Butyllithium

Metallation of poly(1-trimethylsilyl-1-prop-1-yne) and poly(vinyltrimethylsilane) with superbases, **12**, 2248

Butyne

Acetylene—allene rearrangement of propargyl systems X—CH₂—C≡CH (X = H, Me, NMe₂, OMe, F, SME): an *ab initio* study, **5**, 774

C**Cadmium compounds**

Anomalies of the partition coefficient and properties of crystals in the region of low concentrations of an isomorphous admixture. 1. Unusual decomposition of solid solutions of the NaCl—CdCl₂ system, **1**, 37

Calcium cations

Investigation of surface oligonucleotide-binding proteins of eucaryotic cells by affinity modification with reactive oligonucleotide derivatives, **7**, 1204

Calcium compounds

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Calix[4]arenes

Cooperative intramolecular hydrogen bond and conformations of thioalix[4]arene molecules, **5**, 825

Calix[4]resorcinolarenes

Calix[4]resorcinolarenes with phosphinoylalkyl substituents on the lower rim of the molecule, **10**, 1968

Camphor

Binding of cyclic compounds by starch cryotextures from aqueous solutions, **9**, 1689

Cancer

Oncogene mRNA imaging with ^{99m}Tc -chelator-PNA-peptides (review), **7**, 1083

Capillary gas adsorption chromatography

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Carbamoylamidoximes

Synthesis of 3-carbamoyl-1,2,4-oxadiazoles, **10**, 1857

2-Carbamoylbenzothiazoles

New approach to the synthesis of 2-carbamoylbenzothiazoles, **1**, 144

Carbanions

Dipole-stabilized carbanions in the series of cyclic aldonitrones. 3. The influence of the configuration of the nitron group on H—D exchange of the methine hydrogen atom and metallation of aldonitrones, **2**, 297

Reactions of carbanions of bis(dialkoxyphosphoryl)bromomethane with fullerenes C_{60} and C_{70} , **2**, 337

Carbenes

Cycloaddition to buckminsterfullerene C_{60} : advancements and future prospects (review), **3**, 367

Carbocations

Single-, double-, and triple-charged cations based on iron-subgroup decamethylmetallocenes (review), **9**, 1616

Dual reactivity of an intermediate cation formed in the photolysis of dihydroquinolines in methanol, **11**, 2055

Carbohydrates

Selective preparation of glycosyl sulfone or glycal by treatment of phenyl thioglycoside of *N*-acetylneuraminic acid with *m*-chloroperbenzoic acid, **4**, 698

New method for trimethylsilylation of hydroxy-containing compounds. Synthesis of persilylated ecdysteroids and carbohydrates, **10**, 1937

Carbon adsorbent

Conceivably the first example of a phase transition in aqueous solutions of oligosaccharide glycosides. Evidence from variable-temperature ^1H NMR and optical rotation measurements for a solution of allyl lactoside, **7**, 1337

Adsorption of perfluoropropane on the PAC microporous carbon adsorbent, **12**, 2161

Carbon compounds

On the possibility of existence of η^4 - π -complexes of corannulene ($\text{C}_{20}\text{H}_{10}$) and C_{60} fullerene derivatives, **2**, 230

Carbon dioxide

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Ammonia and carbon dioxide permeability through perfluorosulfonic membranes, **2**, 275

Novel method for the synthesis of (trifluoromethyl)oxirane, **3**, 550

Electrocatalytic CO_2 reduction in methanol catalyzed by mono-, di-, and electropolymerized phthalocyanine complexes, **5**, 805

8-Hydroxyquinolates of trivalent metals as new catalysts for the reaction of CO_2 with epoxides, **5**, 836

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

Copolymerization of propylene oxide with carbon dioxide catalyzed by zinc adipate, **8**, 1451

Hydrogenation of CO_2 to formic acid in the presence of the Wilkinson complex, **12**, 2165

Synthesis and study of organometallic complexes of octa-phenyltetraazaporphyrinatoindium(III), **12**, 2261

Carbon fibers

Effect of acidity of the medium and polarization of the surface on albumin adsorption by carbon fibers, **6**, 1006

Carbon monoxide

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

Reactions of the $\text{Ru}_3(\text{CO})_{10}(\mu\text{-Ph}_2\text{PCH}_2\text{PPh}_2)$ cluster with enynes $\text{RCH}=\text{CHC}\equiv\text{CR}$ (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

Cationic Pd^{II} , Ni^{II} , and Ru^{II} complexes in the synthesis of alternating copolymers of CO with vinyl monomers (review), **9**, 1605

Carbon nitrides

Crystalline carbon nitrides: thin films and bulk samples, **9**, 1633

Carbon tetrachloride

Replacement of an oxygen atom by chlorine atoms in the reaction of pentafluorobenzaldehyde with CCl_3 -substituted compounds in the presence of AlCl_3 , **3**, 544

Adsorption of surfactants on superfine magnetite, **11**, 2044

Generation of alkyl hypochlorites in oxidation of alcohols with carbon tetrachloride catalyzed by vanadium and manganese compounds, **11**, 2074

Carbonates

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Carbonohydrazones

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

Carbonyl complexes

High-resolution and cross-polarization magic angle spinning NMR studies of tricarbonylchromium complexes with polycyclic aromatic ligands (review), **6**, 907

Chromium arene complexes in synthesis of *trans*-resveratrol, **7**, 1319

Redox reactions of Ge^{II} and Sn^{II} dihalides with triethylsilane and triethylgermane, **7**, 1325

Synthesis and molecular structure of the first vinylidene complex [Cp(CO)₂MnCu(μ-C=CHPh)(μ-Cl)]₂ with the Mn—Cu bond, **7**, 1339

Stereospecific 1,4-*cis*-hydrogenation of conjugated dienes, dienynes, and dienediynes catalyzed by chromium carbonyl complexes in stereocontrolled syntheses of physiologically active olefins (review), **8**, 1341

New polyfunctional silicon-containing amines C₆[CH₂CH₂SiMe(OCH₂CH₂NR₂)₂]₆ (R = H, Me) and their reactions with cobalt(II) chloride and dicobalt octacarbonyl, **12**, 2277

Carbonyl oxides

Kinetics, mechanism, and products of the reaction of diphenylcarbonyl oxide with carboxylic acids, **4**, 608

Carbonyl phosphines

Synthesis and the crystal structure of the triosmium cluster with the μ-dehydrobenzene ligand, Os₃(μ-H)₂(CO)₇(μ-C₆H₄)₂{μ₃-Ph₂PCH₂P(C₆H₄)Ph}, **2**, 350

Reactions of the Ru₃(CO)₁₀(μ-Ph₂PCH₂PPh₂) cluster with enynes RCH=CHC≡CR (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

Carbonylation

Carbonylation of methyl acetate in the presence of polymeric rhodium-containing catalysts, **2**, 259

2-Phenyl-1-boraadamantane complexes. Crystal structure and use in the synthesis of cage compounds, **8**, 1562

Palladium nitrosoarene complexes in reductive carbonylation of nitroarenes, **12**, 2286

Carbonyls

On the possibility of existence of η⁴-π-complexes of corannulene (C₂₀H₁₀) and C₆₀ fullerene derivatives, **2**, 230

Carboranes

Pd-Catalyzed asymmetric allylation of an *o*-carborane derivative, **3**, 513

Palladium-catalyzed asymmetric allylation and complex formation involving *P,N*-bidentate derivatives of (*S*)-2-(anilinomethyl)pyrrolidine, **3**, 521

Carboxylates

Electrooxidative transformation of unsubstituted and substituted nitro hydrocarbons into carbonyl compounds, **8**, 1460

Carboxylic acids

Kinetics, mechanism, and products of the reaction of diphenylcarbonyl oxide with carboxylic acids, **4**, 608

N- and *O*-Alkylation of 3-indolylcyclopropylacetic acid derivatives, **10**, 1829

Carbyne complexes

New tungsten carbyne complexes containing the triphenylgermyl and triphenylstannyl groups at the carbyne carbon atom (Bu^tO)₃W≡C—EPh₃ (E = Ge, Sn), **3**, 552

Carcinine

Synthesis of phosphamide conjugates of 5'-mononucleotides with carcinine and its analogs, **10**, 1940

(+)-Car-3-ene

Synthesis of indole-containing analogs of (1*R*)-*cis*-chrysanthemic acid and *N*-substituted (1*R*)-*cis*-chrysanthemylamines, **7**, 1308

Reactions of (1*S*,3*S*)-3-acetoxymethyl-1-(2-acetoxyvinyl)-2,2-dimethylcyclopropane with haloforms under conditions of phase-transfer catalysis, **9**, 1765

Cascade heterocyclization

Spirocyclohexadienones. 6. Three-component synthesis of 1-*R*-3,3-dimethyl-2-azaspiro[4.5]deca-1,6,9-trien-8-ones, **5**, 894

Cascade reactions

Cascade cycloaddition reactions involving dimethylhydrazones of α-substituted acroleins, **2**, 326

Catalysis

Sulfurization of polymers. 5. Poly(6-methyl-5-sulfanylthieno[2,3-*b*]pyridine-4-thione), poly(thieno[2,3-*b*]azepine-4,5(6*H*)-dithione), and related structures from poly(2-methyl-5-vinylpyridine) and elemental sulfur, **2**, 282

Free radical formation during ethylbenzene oxidation catalyzed by cetyltrimethylammonium bromide, **3**, 449

Pd-Catalyzed asymmetric allylation of an *o*-carborane derivative, **3**, 513

Palladium-catalyzed asymmetric allylation and complex formation involving *P,N*-bidentate derivatives of (*S*)-2-(anilinomethyl)pyrrolidine, **3**, 521

New tungsten carbyne complexes containing the triphenylgermyl and triphenylstannyl groups at the carbyne carbon atom (Bu^tO)₃W≡C—EPh₃ (E = Ge, Sn), **3**, 552

Reactions of *N,N*-(dialkyl)arylthioacetamides with dialkyl acetylenedicarboxylates, **4**, 653

The reactivity of 2,2'-bipyridine complexes in the electrochemical reduction of organohalides, **5**, 796

Regioselective splitting of 3-alkyl-1-ethylaluminumcyclopentanes with orthoformates as a new route to 1-functionalized 4-methylalkanes, **5**, 901

Role of ligands in homogeneous catalysis based on transition metals (review), **6**, 930

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

Catalytic systems based on platinum and heteropoly compounds for oxidation of hydrocarbons with a dioxygen-dihydrogen gaseous mixture, **6**, 975

The Mn(acac)₃—RCN—CCl₄ system as a new efficient reagent for the oxidation of secondary alcohols into ketones, **6**, 1065

PCP pincer ligands based on metallocenes. Crystal structure of the rhodium complex *cis*-RhCl₂(CO)[{2,5-(Prⁱ₂PCH₂)₂C₃H₂}Fe(C₃H₅)], **6**, 1077

Design and synthesis of artificial ribonucleases based on 1,4-diazabicyclo[2.2.2]octane and imidazole (review), **7**, 1100

10-23 DNA enzymes for targeting *MDR1* mRNA, **7**, 1190

Oxidation of ascorbic acid in the presence of phthalocyanine metal complexes. Chemical aspects of catalytic anticancer

therapy. 1. Catalysis of oxidation by cobalt octacarboxyphthalocyanine, **7**, 1231

On the reactions of aroylacetonitriles with acetoacetates, **8**, 1545

Cationic Pd^{II}, Ni^{II}, and Ru^{II} complexes in the synthesis of alternating copolymers of CO with vinyl monomers (review), **9**, 1605

Electrocatalytic reduction of organic halides with cobalt bipyridine complexes, **9**, 1702

Synthesis of alkynylbenzo-15-crown-5 ethers, **9**, 1720

First quinine-based aryl phosphite: synthesis and application in the Pd-catalyzed enantioselective rearrangement of allylic thiocarbamate, **9**, 1748

Reactions of (1*S*,3*S*)-3-acetoxymethyl-1-(2-acetoxyvinyl)-2,2-dimethylcyclopropane with haloforms under conditions of phase-transfer catalysis, **9**, 1765

A new method for synthesis of *n*-(3-acyloxypropyl)-substituted six- to thirteen-membered alkan-*n*-olides, **10**, 1806

The influence of the sacrificial anode nature on the mechanism of electrochemical arylation and alkylation of white phosphorus, **11**, 2059

Generation of alkyl hypochlorites in oxidation of alcohols with carbon tetrachloride catalyzed by vanadium and manganese compounds, **11**, 2074

Metal-dependent stereochemistry of C—C bond formation under the asymmetric phase transfer catalysis by chiral salen complexes, **11**, 2086

Synthesis of functional 2-substituted 4-phenyl-9*H*-pyrimido[4,5-*b*]indoles, **11**, 2129

Synthesis and transformations of metallacycles. 28. Reactions of allenes with EtAlCl₂ and Et₂AlCl catalyzed by Ti and Zr complexes, **12**, 2255

Catalysts

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

Adsorption of H₃PW₁₂O₄₀ by porous carbon materials, **2**, 243

Cyclohexane transformations over metal oxide catalysts. 1. Effect of the nature of metal and support on the catalytic activity in cyclohexane ring opening, **2**, 249

Carbonylation of methyl acetate in the presence of polymeric rhodium-containing catalysts, **2**, 259

Enzymatic dissymmetrization of *meso*-2,3-di-methylbutane-1,4-diol and its diacetate. Synthesis of scalemic (–)-lasiol, **3**, 481

Synthesis of chromenes with isoprenoid side chains and their selective ozonolysis, **3**, 526

Ring-closing metathesis of 2,2-diallyl derivatives of pyrrolidine and piperidine: a route to azaspiroheterocyclic structures, **4**, 645

Mechanism of reaction of *n*-butane with but-2-enes in the presence of LaCaX faujasites, **5**, 783

Cp₂TiCl₂-Catalyzed hydroalkylation of α-olefins with Bu^hBr—Et₃Al, **5**, 833

8-Hydroxyquinolates of trivalent metals as new catalysts for the reaction of CO₂ with epoxides, **5**, 836

Site-specific synthetic ribonucleases based on oligonucleotide conjugates with metal-independent organic catalysts of hydrolysis of phosphodiester bonds (review), **7**, 1112

Influence of the texture of chromia catalysts on their activity in synthesis of 2-methylthiophene, **9**, 1694

Dehydrogenation of methanol on low Cu and Re—Cu catalysts supported on sibunite, **9**, 1698

Influence of rhenium additives on the activity of Cu/sibunite catalyst in transformations of isopropyl alcohol, **9**, 1768

Generation of alkyl hypochlorites in oxidation of alcohols with carbon tetrachloride catalyzed by vanadium and manganese compounds, **11**, 2074

Metal-dependent stereochemistry of C—C bond formation under the asymmetric phase transfer catalysis by chiral salen complexes, **11**, 2086

Formation and properties of a catalyst based on sodium and potassium hydroxides in the reaction of 2,6-di-*tert*-butylphenol with methyl acrylate, **12**, 2189

Catalytic activity

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

Design and synthesis of artificial ribonucleases based on 1,4-diazabicyclo[2.2.2]octane and imidazole (review), **7**, 1100

Cationic lipids

A convenient method for the synthesis of cationic glycerolipids with potential biological activity, **10**, 1931

Cations

Mechanism of reaction of *n*-butane with but-2-enes in the presence of LaCaX faujasites, **5**, 783

Cesium compounds

¹²³Sb NQR and ¹⁹F NMR study of potassium, rubidium, and cesium heptafluorodiantimonates(III), **11**, 1996

Cetyltrimethylammonium

Free radical formation during ethylbenzene oxidation catalyzed by cetyltrimethylammonium bromide, **3**, 449

Micelle-forming, liquid-crystalline properties, and catalytic effect of the mixed cetyltrimethylammonium bromide—polyethylene glycol(–9) monoalkanoate(–14)—water micellar system, **12**, 2176

Chain mechanism

Chain and monomolecular decomposition of hexogen in solutions, **8**, 1433

Chalcogenide cyanide complexes

23-Electron Re₆ metal clusters: syntheses and crystal structures of (Ph₄P)₃[Re₆S₈(CN)₆], (Ph₄P)₂(H)[Re₆Se₈(CN)₆] • 8H₂O, and (Et₄N)₂(H)[Re₆Te₈(CN)₆] • 2H₂O, **5**, 866

Chalcogenides

Tetranuclear rhenium chalcogenide cluster complexes with a cubane core. Synthesis, structures, and properties (review), **4**, 569

Crystal structure and thermal stability of $\text{Ni}_{151.5}\text{Pb}_{24}\text{S}_{92}$. Search for selenium- and tellurium-containing analogs, **12**, 2139

Charge density

New unsymmetrical difluoroaromatic compounds and estimation of their reactivities in nucleophilic substitution, **1**, 117

Charge transfer

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Luminescence of salts and copolymers containing the $(\text{Mo}^{\text{VI}}\text{Cl}_8)^{4+}$ cluster, **6**, 994

Chemical bonding in isolated molecules and crystals of zwitterionic pentacoordinate silicon chelates, **8**, 1423

Charge-transfer state

Femtosecond dynamics of relaxation of photoexcited *meso*-tetraferrocenylporphyrin in the nonprotonated and deprotonated forms (Fc_4PH_2 and $\text{Fc}_4\text{PH}_4^{2+}$), **6**, 986

Chelates

Electrochemical arylation of cobalt and nickel chelates with diphenyliodonium salts, **1**, 85

Redox properties of N_2S_2 -type nickel complexes with aromatic ligands. Crystal structure of $[\text{1,2-C}_6\text{H}_4(\text{SMe})\text{NH}_2]_2\text{Ni}^{2+}(\text{MeCN})_2 \cdot 2\text{ClO}_4^-$, **3**, 467

Oncogene mRNA imaging with $^{99\text{m}}\text{Tc}$ -chelator-PNA-peptides (review), **7**, 1083

Chemical bond

Reactions of mono- and bimolecular hydrogen transfer in alkyl radicals: analysis using the parabolic model and density functional calculations, **4**, 602

Influence of the size of the formed cycle on the reactivity of free radicals in cyclization reactions, **6**, 949

Nature of $\text{Fe}-\text{CH}_2$ bonds in ferrocenylmethyl and ferrocenylenedimethyl cations, **9**, 1651

Chemical ionization

Chemical ionization mass spectrometric determination of the configuration of decahydroquinolin-4-ols, **10**, 1959

Chemical modification

Metallation of poly(1-trimethylsilyl-1-prop-1-yne) and poly(vinyltrimethylsilane) with superbases, **12**, 2248

Chemiluminescence

Chemiluminescence accompanying chitosane destruction in hydrochloric acid solution containing hydrogen peroxide, **1**, 54

Chemiluminescence activated by the Tb^{3+} ion in $(\text{Bu}^i_2\text{Al})_2\text{O}$ aluminoxane oxidation with dioxygen in toluene, **5**, 904

Chemisorption

Investigation of chemisorption properties of the PbO surface, **9**, 1680

Chinensiosides

Triterpene glycosides from *Pulsatilla chinensis*, **10**, 1945

Chiral aryl phosphites

First quinine-based aryl phosphite: synthesis and application in the Pd-catalyzed enantioselective rearrangement of allylic thiocarbamate, **9**, 1748

Chiral auxiliaries

Halo-substituted (*S*)-*N*-(2-benzoylphenyl)-1-benzylpyrrolidine-2-carboxamides as new chiral auxiliaries for the asymmetric synthesis of (*S*)- α -amino acids, **8**, 1593

Chitosane

Chemiluminescence accompanying chitosane destruction in hydrochloric acid solution containing hydrogen peroxide, **1**, 54

Carbonylation of methyl acetate in the presence of polymeric rhodium-containing catalysts, **2**, 259

Chlorides

Powder X-ray diffraction study of the double complexes $[\text{M}(\text{NH}_3)_5\text{Cl}][\text{M}'\text{Cl}_4]$ as precursors of metal powders ($\text{M} = \text{Ir, Rh, Co}$; $\text{M}' = \text{Pt, Pd}$), **1**, 41

Chemiluminescence activated by the Tb^{3+} ion in $(\text{Bu}^i_2\text{Al})_2\text{O}$ aluminoxane oxidation with dioxygen in toluene, **5**, 904

Photochromic dihetarylethenes. 13. Optimization of conditions for the acylation of 2,5-dimethylthiophene with squaric acid dichloride, **8**, 1510

Photochromic dihetarylethenes. 14. Synthesis of symmetrical and unsymmetrical dihetarylcylobutene-1,2-diones, **8**, 1515

Synthesis of α,ω -dichloropermethyloligosilanes by reactions of polydimethylsilane with metal chlorides, **9**, 1751

New polyfunctional silicon-containing amines $\text{C}_6[\text{CH}_2\text{CH}_2\text{SiMe}(\text{OCH}_2\text{CH}_2\text{NR}_2)_2]_6$ ($\text{R} = \text{H, Me}$) and their reactions with cobalt(II) chloride and dicobalt octacarbonyl, **12**, 2277

Chlorination

Nitro derivatives of cyclic sulfoximides of the 1,2-benzothiazole series, **8**, 1549

Chloroacetamide

New approach to the synthesis of 2-carbamoylbenzothiazoles, **1**, 144

2-Chloro-3-cyano-5-formyl-4-(2-hydroxyanilino)pyridine

Study of the reactions of 3-chloro-4-cyanobenzo[*b*][1,6]naphthyridine with nucleophilic reagents, **11**, 2121

2-(2-Chloro-4,5-dihydro-3-furyl)-1,3-diphenyl-1,3-diaza-2 λ^3 -phospholidine

Reactions of 2-(2-chloro-4,5-dihydro-3-furyl)-1,3-diphenyl-1,3-diaza-2 λ^3 -phospholidine with nitrile imines, **6**, 1045

7-Chloro-5-dimethylamino-4-nitro-2,1,3-benzoxadiazole

Molecular and crystal structures of 5,7-dichloro-4-nitro-2,1,3-benzoxadiazole and products of its reactions with secondary amines, **1**, 105

2-Chloro-1,3-dimethyl-2,3-dihydro-1*H*-1,3,2-benzodiazaphosphole

The Mills—Nixon and anomeric effects in 2,3-dihydro-1*H*-1,3,2-benzodiazaphospholes: a gas-phase electron diffraction study of $\text{C}_6\text{H}_4(\text{NMe})_2\text{PCL}$ using quantum-chemical data and "a priori" force field, **11**, 2014

Chloroethane

Elution and frontal dynamics of adsorption of organic substances on activated carbon, **9**, 1675

***N*-(2-Chloroethyl)-*N*-methyl-4-aminobenzaldehyde**

Synthesis of new functionally substituted fullereno-pyrrolidines, **9**, 1723

7-Chloro-5-hexamethyleneimino-4-nitro-2,1,3-benzoxadiazole

Molecular and crystal structures of 5,7-dichloro-4-nitro-2,1,3-benzoxadiazole and products of its reactions with secondary amines, **1**, 105

Chlorolysis

Chlorolysis of β -functionalized alkyl polyfluoroalkenyl sulfides, **6**, 1031

Chloropentamines

Powder X-ray diffraction study of the double complexes $[M(NH_3)_5Cl][M'Cl_4]$ as precursors of metal powders (M = Ir, Rh, Co; M' = Pt, Pd), **1**, 41

***m*-Chloroperbenzoic acid**

Selective preparation of glycosyl sulfone or glycol by treatment of phenyl thioglycoside of *N*-acetylneuraminic acid with *m*-chloroperbenzoic acid, **4**, 698

(20*R*,24*S*)-5 α -Cholestane-3 β ,6 β ,15 β ,24-tetraol

Steroid polyols from the Far-Eastern starfish *Henricia sanguinolenta*, **12**, 2295

Chromanones

2-Polyfluoroalkylchromones. 11. Synthesis and structures of 5-hydroxy-3-(2-hydroxyaryl)-5-polyfluoroalkyl- Δ^2 -pyrazolines and 3(5)-(2-hydroxyaryl)-5(3)-polyfluoroalkyl-pyrazoles, **7**, 1280

2-Polyfluoroalkylchromones. 12. Nitration of 5,7-dimethyl-2-polyhaloalkylchromones and complete assignment of signals in the 1H and ^{13}C NMR spectra of 5,7-dimethyl-2-trifluoromethylchromone and its mono- and dinitro derivatives, **10**, 1817

Chromenes

Synthesis of chromenes with isoprenoid side chains and their selective ozonolysis, **3**, 526

Reactions of nitrogen derivatives of substituted salicylaldehydes with cyclic ketones and enamines, **7**, 1262

One-step synthesis of substituted 2-amino-4*H*-chromenes and 2-amino-4*H*-benzo[*f*]chromenes. Molecular and crystal structure of 2-amino-3-cyano-6-hydroxy-4-phenyl-4*H*-benzo[*f*]chromene, **12**, 2238

Chromenopyridines

α -Oxolactam enamines as new synthons in the Nenitzescu reaction, **10**, 1886

Chromium compounds

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

Synthesis and properties of styrenetricarbonylchromium and its analogs (review), **4**, 581

8-Hydroxyquinolates of trivalent metals as new catalysts for the reaction of CO₂ with epoxides, **5**, 836

High-resolution and cross-polarization magic angle spinning NMR studies of tricarbonylchromium complexes with polycyclic aromatic ligands (review), **6**, 907

Chromium arene complexes in synthesis of *trans*-resveratrol, **7**, 1319

Stereospecific 1,4-*cis*-hydrogenation of conjugated dienes, dienyne, and dienediynes catalyzed by chromium carbonyl

complexes in stereocontrolled syntheses of physiologically active olefins (review), **8**, 1341

Analysis of vibrational spectra of naphthalene, deuterio-naphthalenes, and chromium (η^6 -naphthalene)tricarbonyl based on density functional calculations, **9**, 1656

Influence of the texture of chromia catalysts on their activity in synthesis of 2-methylthiophene, **9**, 1694

Chromoionophores

Simulation of optical response to complex formation of crown-containing 2-styrylbenzothiazoles with alkaline-earth metals, **5**, 789

Chromones

2-Polyfluoroalkylchromones. 11. Synthesis and structures of 5-hydroxy-3-(2-hydroxyaryl)-5-polyfluoroalkyl- Δ^2 -pyrazolines and 3(5)-(2-hydroxyaryl)-5(3)-polyfluoroalkyl-pyrazoles, **7**, 1280

2-Polyfluoroalkylchromones. 12. Nitration of 5,7-dimethyl-2-polyhaloalkylchromones and complete assignment of signals in the 1H and ^{13}C NMR spectra of 5,7-dimethyl-2-trifluoromethylchromone and its mono- and dinitro derivatives, **10**, 1817

Chromophors

Luminescence of lanthanides in complexes with chromophoric crown ethers, **12**, 2303

Chrysanthemylamine

Synthesis of indole-containing analogs of (1*R*)-*cis*-chrysanthemic acid and *N*-substituted (1*R*)-*cis*-chrysanthemylamines, **7**, 1308

Cisplatin

DNA modification by *cis*-diaminoplatinum(II) complexes with aminonitroxide ligands, **6**, 1058

(*S*)-(+)-Citronellene

Stereocontrolled synthesis of *trans*-2-hydroxymethyl-3-methylcyclopentanone from (*S*)-(+)-citronellene, **2**, 359

Clathrate-like aggregates

Estimation of the clathrate aggregation of substances in solutions from ion-exchange equilibrium data, **4**, 715

Clathrochelates

Potentially hexadentate bisazine dioximate ligands: "correct" synthetic procedure and encapsulation reactions of the iron(II) ion, **6**, 1015

Cloning

Structure-functional organization of mouse aquaporin 4 gene, **7**, 1122

Clusters

On the possibility of existence of η^4 - π -complexes of corannulene (C₂₀H₁₀) and C₆₀ fullerene derivatives, **2**, 230

Synthesis and the crystal structure of the triosmium cluster with the μ -dehydrobenzene ligand, Os₃(μ -H)₂(CO)₇(μ -C₆H₄)₂{ μ_3 -Ph₂PCH₂P(C₆H₄)Ph}, **2**, 350

23-Electron Re₆ metal clusters: syntheses and crystal structures of (Ph₄P)₃[Re₆S₈(CN)₆], (Ph₄P)₂(H)[Re₆Se₈(CN)₆] • 8H₂O, and (Et₄N)₂(H)[Re₆Te₈(CN)₆] • 2H₂O, **5**, 866

Reactions of the Ru₃(CO)₁₀(μ -Ph₂PCH₂PPh₂) cluster with enynes RCH=CHC \equiv CR (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

Luminescence of salts and copolymers containing the $(\text{Mo}^{\text{II}}\text{Cl}_8)^{4+}$ cluster, **6**, 994

Synthesis and crystal structures of supramolecular adducts of molybdenum and tungsten selenide aqua complexes with macrocyclic cavitand cucurbituril, **10**, 1800

First example of the cluster ammine complex $[\text{Re}_6\text{Se}_7\text{Br}(\text{NH}_3)_6]^{3+}$: synthesis and structure of the $[\text{Re}_6\text{Se}_7\text{Br}(\text{NH}_3)_6][\text{Re}_6\text{Se}_7\text{Br}_6] \cdot 12\text{H}_2\text{O}$ salt, **10**, 1919

Coaxial stacking

Thermodynamic parameters of coaxial stacking on stacking hybridization of oligodeoxyribonucleotides, **7**, 1145

Cobalt compounds

Powder X-ray diffraction study of the double complexes $[\text{M}(\text{NH}_3)_5\text{Cl}][\text{M}'\text{Cl}_4]$ as precursors of metal powders ($\text{M} = \text{Ir, Rh, Co}$; $\text{M}' = \text{Pt, Pd}$), **1**, 41

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

Electrochemical arylation of cobalt and nickel chelates with diphenyliodonium salts, **1**, 85

Oxidation of ascorbic acid in the presence of phthalocyanine metal complexes. Chemical aspects of catalytic anticancer therapy. 1. Catalysis of oxidation by cobalt octacarboxyphthalocyanine, **7**, 1231

Reactions of pyrrole-2,5-dicarbaldehyde with 2-aminodiphenylamine in the presence of nickel and cobalt trimethylacetates, **8**, 1575

Formation of cobalt(III) cations with semiquinonediimine ligands, **8**, 1581

Electrocatalytic reduction of organic halides with cobalt bipyridine complexes, **9**, 1702

New polyfunctional silicon-containing amines $\text{C}_6[\text{CH}_2\text{CH}_2\text{SiMe}(\text{OCH}_2\text{CH}_2\text{NR}_2)_2]_6$ ($\text{R} = \text{H, Me}$) and their reactions with cobalt(II) chloride and dicobalt octacarbonyl, **12**, 2277

Synthesis and structure of the $\text{Co}_3(\mu, \eta^2\text{-OOCBu}^t)_2(\mu\text{-OOCBu}^t)_4(\text{NEt}_3)_2$ complex containing a linear metal core, **12**, 2310

Complex formation

Synthesis of crown-containing 2-styrylbenzothiazoles. Effect of alkali metal cations on the condensation of crown-ether benzaldehydes with 2-methylbenzothiazole, **2**, 319

Formation of coordination polymeric structures on the basis of 4,4'-dipyridylethylene and Ag^+ in solutions, **3**, 476

Simulation of optical response to complex formation of crown-containing 2-styrylbenzothiazoles with alkaline-earth metals, **5**, 789

Chemiluminescence activated by the Tb^{3+} ion in $(\text{Bu}^i\text{Al})_2\text{O}$ aluminoxane oxidation with dioxygen in toluene, **5**, 904

E-Z-Isomerization of 2-methylenethiazolidin-4-ones, **7**, 1292

Crown-containing spironaphthoxazines and spiropyrans. 3. Synthesis and investigation of the merocyanine form of crown-containing spirobenzothiazolinonaphthoxazine, **8**, 1441

Selected properties of bi- and trinuclear complexes prepared by the reactions of $\text{Ru}_3(\text{CO})_{12}$ with β -substituted oxadienes, **9**, 1754

Reaction of 3-(*N*-phenylamino)-1-*p*-tolylprop-2-en-1-one with $\text{Ru}_3(\text{CO})_{12}$, **9**, 1771

Synthesis and study of organometallic complexes of octa-phenyltetraazaporphyrinatoindium(III), **12**, 2261

Complexation

Crown-containing spironaphthoxazines and spiropyrans. 2. Influence of metal cations on the photochromic properties of spironaphthoxazines linked with aza-15(18)-crown-5(6) ethers, **1**, 58

Sulfurization of polymers. 5. Poly(6-methyl-5-sulfanylthieno[2,3-*b*]pyridine-4-thione), poly(thieno[2,3-*b*]azepine-4,5(6*H*)-dithione), and related structures from poly(2-methyl-5-vinylpyridine) and elemental sulfur, **2**, 282

Complexes

Powder X-ray diffraction study of the double complexes $[\text{M}(\text{NH}_3)_5\text{Cl}][\text{M}'\text{Cl}_4]$ as precursors of metal powders ($\text{M} = \text{Ir, Rh, Co}$; $\text{M}' = \text{Pt, Pd}$), **1**, 41

IR spectra of hydrogen fluoride solutions in *n*-propanol, **1**, 90

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Synthesis and redox properties of bis-ferrocenylethynyl derivatives of bis(dimethylphosphinoethane)manganese, **1**, 170

Unusual reaction of hexaethylphosphorous triamide with mercuric chloride leading to the formation of metallic mercury, **1**, 191

Electrocatalytic reactions involving the $\text{Ni}^{\text{II}}\text{---Zn}^{\text{II}}\text{---}2,2'$ -bipyridine system, **2**, 269

Ammonia and carbon dioxide permeability through perfluorosulfonic membranes, **2**, 275

1-Thiocarbamoyl(ferrocenyl)-4,5-dihydropyrazoles, **2**, 342

Formation of coordination polymeric structures on the basis of 4,4'-dipyridylethylene and Ag^+ in solutions, **3**, 476

Pd-Catalyzed asymmetric allylation of an *o*-carborane derivative, **3**, 513

Half-sandwich complexes of lanthanides with tridentate ligands $[\text{RCH}_2\text{CH}(\text{O})\text{CH}_2\text{OBu}^n]^{2-}$ ($\text{R} = \text{C}_5\text{H}_4, 1\text{-C}_9\text{H}_6$): synthesis, structures, and properties. The crystal structure of the complex $\{[(\eta^5\text{-C}_5\text{H}_4)\text{CH}_2\text{CH}(\mu^2\text{-}\eta^1\text{-O})\text{CH}_2\text{OBu}^n]\text{LaN}(\text{SiMe}_3)_2\}_2$, **4**, 684

The reactivity of 2,2'-bipyridine complexes in the electrochemical reduction of organohalides, **5**, 796

Cp_2TiCl_2 -Catalyzed hydroalkylation of α -olefins with $\text{Bu}^t\text{Br---Et}_3\text{Al}$, **5**, 833

Rhenium complexes with pyrazoles. Synthesis and crystal structure of *trans*- $[\text{Re}(\text{O})(\text{OMe})\text{L}_4]\text{Br}_2 \cdot \text{L} \cdot 4\text{H}_2\text{O}$ (L is 3,5-dimethylpyrazole), **5**, 872

Chemiluminescence activated by the Tb^{3+} ion in $(\text{Bu}^i\text{Al})_2\text{O}$ aluminoxane oxidation with dioxygen in toluene, **5**, 904

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Potentially hexadentate bisazine dioximate ligands: "correct" synthetic procedure and encapsulation reactions of the iron(II) ion, **6**, 1015

DNA modification by *cis*-diaminoplatinum(II) complexes with aminonitroxide ligands, **6**, 1058

The Mn(acac)₃—RCN—CCl₄ system as a new efficient reagent for the oxidation of secondary alcohols into ketones, **6**, 1065

Metathetical imidation of dioxobis(dimethyldithiocarbamate)molybdenum with *o*-substituted *N*-sulfinylanilines, **6**, 1075

RNA targeting at any chosen site of interest by the novel RNA-protein hybrid ribozyme and the gene discovery based on the hybrid ribozyme libraries, **7**, 1166

Directed cleavage of RNA within an imperfect complementary complex by oligonucleotide—bleomycin A₅ conjugates, **7**, 1187

Redox reactions of Ge^{II} and Sn^{II} dihalides with triethylsilane and triethylgermane, **7**, 1325

2-Phenyl-1-boraadamantane complexes. Crystal structure and use in the synthesis of cage compounds, **8**, 1562

Reactions between germylenes (silylenes) and phosphalkenes: an experimental and theoretical study. Preparation of the first representative of germaphosphacyclopentanes, **8**, 1568

Halo-substituted (*S*)-*N*-(2-benzoylphenyl)-1-benzylpyrrolidine-2-carboxamides as new chiral auxiliaries for the asymmetric synthesis of (*S*)- α -amino acids, **8**, 1593

Cationic Pd^{II}, Ni^{II}, and Ru^{II} complexes in the synthesis of alternating copolymers of CO with vinyl monomers (review), **9**, 1605

Electrocatalytic reduction of organic halides with cobalt bipyridine complexes, **9**, 1702

Synthesis of alkynylbenzo-15-crown-5 ethers, **9**, 1720

Selected properties of bi- and trinuclear complexes prepared by the reactions of Ru₃(CO)₁₂ with β -substituted oxadienes, **9**, 1754

Reaction of 3-(*N*-phenylamino)-1-*p*-tolylprop-2-en-1-one with Ru₃(CO)₁₂, **9**, 1771

Specific chemical behavior of Nd^{II} and Dy^{II} iodides in reactions with aromatic compounds, **10**, 1909

Synthesis and crystal structure of the nanosized supramolecular Sm^{III} complex with macrocyclic cavitand cucurbituril {[Sm(H₂O)₄]₂(C₃₆H₃₆N₂₄O₁₂)₃}Br₆ · 44H₂O, **10**, 1915

Synthesis and structures of nickel(II) complexes with thioether-containing β -aminovinyl ketones, **10**, 1924

Synthesis of novel linear exo-bidentate bispyridine ligands and their complexes with silver(I) tetrafluoroborate, **10**, 1957
¹²³Sb NQR and ¹⁹F NMR study of potassium, rubidium, and cesium heptafluorodiantimonates(III), **11**, 1996

The influence of the sacrificial anode nature on the mechanism of electrochemical arylation and alkylation of white phosphorus, **11**, 2059

Generation of alkyl hypochlorites in oxidation of alcohols with carbon tetrachloride catalyzed by vanadium and manganese compounds, **11**, 2074

Spin exchange between transition metal complexes and nitroxyl radicals in nonaqueous media, **12**, 2207

Synthesis and study of organometallic complexes of octaphenyltetraazaporphyrinatoindium(III), **12**, 2261

Palladium nitrosoarene complexes in reductive carbonylation of nitroarenes, **12**, 2286

Luminescence of lanthanides in complexes with chromophoric crown ethers, **12**, 2303

Synthesis and structure of the Co₃(μ , η^2 -OOCBu^t)₂(μ -OOCBu^t)₄(NEt₃)₂ complex containing a linear metal core, **12**, 2310

π -Complexes

Simulation of the molecular and electronic structure of C₆₀ fullerene π -complex with twelve half-sandwich species FeC₅H₅, **5**, 770

Analysis of vibrational spectra of naphthalene, deuterio-naphthalenes, and chromium (η^6 -naphthalene)tricarbonyl based on density functional calculations, **9**, 1656

η^4 - π -Complexes

On the possibility of existence of η^4 - π -complexes of corannulene (C₂₀H₁₀) and C₆₀ fullerene derivatives, **2**, 230

η^5 - π -Complexes

On the possibility of existence of η^5 - π -complexes of corannulene (C₂₀H₁₀) and C₆₀ fullerene derivatives, **2**, 230

Computer generation of mechanisms

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Concentration dependences

Concentration dependences of heat conductivity coefficients of inert gases in narrow pores, **11**, 2026

Condensation

Synthesis of arylidene derivatives of *N*-unsubstituted pyrrolin-2-ones, **1**, 183

Synthesis of crown-containing 2-styrylbenzothiazoles. Effect of alkali metal cations on the condensation of crown-ether benzaldehydes with 2-methylbenzothiazole, **2**, 319

Synthesis of chromenes with isoprenoid side chains and their selective ozonolysis, **3**, 526

Reactions of *N,N*-(dialkyl)arylthioacetamides with dialkyl acetylenedicarboxylates, **4**, 653

Condensation of polyfluorinated β -diimines with aromatic aldehydes, **4**, 712

Chromium arene complexes in synthesis of *trans*-resveratrol, **7**, 1319

Synthesis of nitrobenzoazacrown compounds by ring transformations of nitrobenzocrown ethers, **7**, 1335

On the reactions of aroylacetonitriles with acetoacetates, **8**, 1545

Reactions of pyrrole-2,5-dicarbaldehyde with 2-aminodiphenylamine in the presence of nickel and cobalt trimethylacetates, **8**, 1575

Reactions of cyclic enehydrazino ketones with arylidene-malononitriles. Synthesis of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1862

Simple synthesis of alkyl 5-oxo-5,8-dihydropyrido[2,3-*d*]pyrimidine-7-carboxylates from 5-acetyl-4-aminopyrimidines, **10**, 1875

α -Oxolactam enamines as new synthons in the Nenitzescu reaction, **10**, 1886

Synthesis of 1-(2-polyfluoroacylamino-phenyl)-3-polyfluoroalkylpropane-1,3-diones and 2-polyfluoroalkyl-4-quinolones, **11**, 2109

Indolopyridines containing a bridgehead heteroatom. 12. Synthesis and reduction of 12-arylidene-5,6-dihydro-indolo[2,1-*a*]isoquinolinium trifluoroacetates, **11**, 2116

One-step synthesis of substituted 2-amino-4*H*-chromenes and 2-amino-4*H*-benzo[*f*]chromenes. Molecular and crystal structure of 2-amino-3-cyano-6-hydroxy-4-phenyl-4*H*-benzo[*f*]chromene, **12**, 2238

A practical method for synthesis of stable phosphorus ylides in aqueous media, **12**, 2244

Conductivity

Electroconductive polymer films obtained by plasma polymerization of 1-amino-9,10-anthraquinone, **3**, 554

Investigation of chemisorption properties of the PbO surface, **9**, 1680

Cone angle

First quinine-based aryl phosphite: synthesis and application in the Pd-catalyzed enantioselective rearrangement of allylic thiocarbamate, **9**, 1748

Conformation

Molecular and crystal structures of 5,7-dichloro-4-nitro-2,1,3-benzoxadiazole and products of its reactions with secondary amines, **1**, 105

Synthesis of new CF₃-containing 3,4-dihydro-2*H*-pyrans, **4**, 649

Reactions of dibenzylphosphine oxide with α,β -unsaturated nitriles: synthesis of aminophospholene oxides, **4**, 671

Cooperative intramolecular hydrogen bond and conformations of thiocalix[4]arene molecules, **5**, 825

Biological efficacy of antisense oligonucleotides complementary to overlapping regions of the mRNA target (review), **7**, 1118

2-Polyfluoroalkylchromones. 11. Synthesis and structures of 5-hydroxy-3-(2-hydroxyaryl)-5-polyfluoroalkyl- Δ^2 -pyrazolines and 3(5)-(2-hydroxyaryl)-5(3)-polyfluoroalkyl-pyrazoles, **7**, 1280

Stereoselective electrochemical transformation of 4-substituted cyclohexanones into *cis*-5-substituted 2,2-dimethoxycyclohexanols, **8**, 1478

Conformational analysis

Conformational analysis and regioisomerism of mono- and diadducts of *O,O*-diisopropyl isoxazolinophosphonate with C₆₀, **4**, 593

Effect of conformational rigidity on the glass transition and initial decomposition temperatures of polyimides, **5**, 820

VALISA: a new procedure for total lineshape analysis of NMR spectra. Conformational analysis of *trans*-1,2-dibromocyclopentane, **7**, 1222

Conjugation

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Site-specific synthetic ribonucleases based on oligonucleotide conjugates with metal-independent organic catalysts of hydrolysis of phosphodiester bonds (review), **7**, 1112

Continuous stacking hybridization

Thermodynamic parameters of coaxial stacking on stacking hybridization of oligodeoxyribonucleotides, **7**, 1145

Cooperative interaction

Thermodynamic parameters of coaxial stacking on stacking hybridization of oligodeoxyribonucleotides, **7**, 1145

Coordination

Synthesis and the crystal structure of the triosmium cluster with the μ -dehydrobenzene ligand, Os₃(μ -H)₂(CO)₇(μ -C₆H₄)(μ_3 -Ph₂PCH₂P(C₆H₄)Ph), **2**, 350

Coordination polymers

New polyfunctional silicon-containing amines C₆H₄[CH₂CH₂SiMe(OCH₂CH₂NR₂)₂]₆ (R = H, Me) and their reactions with cobalt(II) chloride and dicobalt octacarbonyl, **12**, 2277

Copolymerization

Copolymerization of acetylene with ethylene in the presence of dibenzenetitanium(0), **5**, 817

Copolymerization of propylene oxide with carbon dioxide catalyzed by zinc adipate, **8**, 1451

Cationic Pd^{II}, Ni^{II}, and Ru^{II} complexes in the synthesis of alternating copolymers of CO with vinyl monomers (review), **9**, 1605

Copper compounds

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

1-Thiocarbamoyl(ferrocenyl)-4,5-dihydropyrazoles, **2**, 342

New approaches to syntheses of diethers and haloethers from cyclopentadiene, **4**, 616

ESR study of weak exchange interactions in binuclear copper(II) complexes with acyldihydrazones of fluorinated β -diketones, **4**, 632

Synthesis and molecular structure of the first vinylidene complex [Cp(CO)₂MnCu(μ -C=CHPh)(μ -Cl)]₂ with the Mn—Cu bond, **7**, 1339

Dehydrogenation of methanol on low Cu and Re—Cu catalysts supported on sibunite, **9**, 1698

Influence of rhenium additives on the activity of Cu/sibunite catalyst in transformations of isopropyl alcohol, **9**, 1768

Spin exchange between transition metal complexes and nitroxyl radicals in nonaqueous media, **12**, 2207

ESR study of weak exchange interactions in binuclear copper(II) complexes with 2-hydroxyacetophenone acyldihydrazones, **12**, 2268

Corannulene

On the possibility of existence of η^4 - π -complexes of corannulene (C₂₀H₁₀) and C₆₀ fullerene derivatives, **2**, 230

Corey's ylide

Sulfur ylides. 11. Selected chemical transformations of 1-methylthio-3,4-dihydropyrido[2,1-*a*]isoindole-2,6-dione, **6**, 1035

Corn starch cryotexture

Binding of cyclic compounds by starch cryotextures from aqueous solutions, **9**, 1689

Correlation equations

Synthesis, acid-base and spectral properties of 3-(benzimidazol-2-yl)-2-phenylimino-2*H*-chromenes, **11**, 2070

Cotarnine

Reactions of 5-dihydrocotarnyl-1,3-dimethylbarbituric acid and other cotarnine derivatives with 1,3-dimethylbarbituric acid. X-ray diffraction analysis of a 5,5-spiro derivative of 1,3-dimethylbarbituric acid, **8**, 1540

Coupling of enyne

Reactions of the $\text{Ru}_3(\text{CO})_{10}(\mu\text{-Ph}_2\text{PCH}_2\text{PPh}_2)$ cluster with enynes $\text{RCH}=\text{CHC}\equiv\text{CR}$ (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

Critical micellization concentrations

Conceivably the first example of a phase transition in aqueous solutions of oligosaccharide glycosides. Evidence from variable-temperature ^1H NMR and optical rotation measurements for a solution of allyl lactoside, **7**, 1337

Adsorption of surfactants on superfine magnetite, **11**, 2044

Micelle-forming, liquid-crystalline properties, and catalytic effect of the mixed cetyltrimethylammonium bromide—polyethylene glycol(–9) monoalkanoate(–14)—water micellar system, **12**, 2176

The aggregation and catalytic activity of amphiphilic calix[4]resorcinolarenes and phenols in hydrolysis of phosphonous esters in water—dimethylformamide media, **12**, 2183

Cross-coupling

Cross-coupling of aryl iodides with paramagnetic terminal acetylenes derived from 4,4,5,5-tetramethyl-2-imidazoline-1-oxyl 3-oxide, **1**, 128

Synthesis of 5,6-indolo-12-crown-4 ethers, **1**, 135

Chemistry of *N,N*-bis(silyloxy)enamines. 4. Study of the reactions of *N,N*-bis(silyloxy)enamines with 1,3-diones, **8**, 1455

Synthesis of alkynylbenzo-15-crown-5 ethers, **9**, 1720

Synthesis of novel linear exo-bidentate bispyridine ligands and their complexes with silver(I) tetrafluoroborate, **10**, 1957

Cross-polarization magic angle spinning NMR

High-resolution and cross-polarization magic angle spinning NMR studies of tricarbonylchromium complexes with polycyclic aromatic ligands (review), **6**, 907

Crown ethers

Crown-containing spironaphthoxazines and spiropyran. 2. Influence of metal cations on the photochromic properties of spironaphthoxazines linked with aza-15(18)-crown-5(6) ethers, **1**, 58

Simulation of optical response to complex formation of crown-containing 2-styrylbenzothiazoles with alkaline-earth metals, **5**, 789

Synthesis of nitrobenzoazacrown compounds by ring transformations of nitrobenzocrown ethers, **7**, 1335

Crown-containing spironaphthoxazines and spiropyran. 3. Synthesis and investigation of the merocyanine form of crown-containing spirobenzothiazolinonaphthoxazine, **8**, 1441

Luminescence of lanthanides in complexes with chromophoric crown ethers, **12**, 2303

Crown-containing spironaphthoxazines

Crown-containing spironaphthoxazines and spiropyran. 2. Influence of metal cations on the photochromic properties of spironaphthoxazines linked with aza-15(18)-crown-5(6) ethers, **1**, 58

Crown-ether benzaldehydes

Synthesis of crown-containing 2-styrylbenzothiazoles. Effect of alkali metal cations on the condensation of crown-ether benzaldehydes with 2-methylbenzothiazole, **2**, 319

Crystal modification

Investigation of chemisorption properties of the PbO surface, **9**, 1680

Crystal packing

Synthesis of new macrocyclic aminomethylphosphines based on 4,4'-diaminodiphenylmethane and its derivatives, **1**, 151

Crystal structure

Powder X-ray diffraction study of the double complexes $[\text{M}(\text{NH}_3)_5\text{Cl}][\text{M}'\text{Cl}_4]$ as precursors of metal powders (M = Ir, Rh, Co; M' = Pt, Pd), **1**, 41

Influence of the position of the nitro group on the structural and spectroscopic characteristics of *N'*-(nitrobenzylidene)isonicotinic hydrazides in the crystalline state, **1**, 99

Molecular and crystal structures of 5,7-dichloro-4-nitro-2,1,3-benzoxadiazole and products of its reactions with secondary amines, **1**, 105

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Cascade cycloaddition reactions involving dimethylhydrazones of α -substituted acroleins, **2**, 326

Synthesis of (7-polyfluoroalkyl)pyrazolo[1,5-*a*]pyrimidines based on lithium fluorine-containing β -diketonates, **2**, 332

Synthesis and crystal structure of supramolecular adduct of tetranuclear uranyl chloride aquacomplex with macrocyclic cavitand cucurbituril, **2**, 346

Synthesis and the crystal structure of the triosmium cluster with the μ -dehydrobenzene ligand, $\text{Os}_3(\mu\text{-H})_2(\text{CO})_7(\mu\text{-C}_6\text{H}_4)(\mu_3\text{-Ph}_2\text{PCH}_2\text{P}(\text{C}_6\text{H}_4)\text{Ph})$, **2**, 350

First multicomponent synthesis of tricyclic hydrogenated pyridines, **2**, 362

Synthesis and the crystal structure of $[\text{Hg}_6\text{As}_4](\text{InCl}_6)\text{Cl}$: influence of covalent and electrostatic factors on the supramolecular structure, **3**, 444

Photo- and thermochromic spiropyran. 21. 8'-Formyl-3,6'-dimethyl-4-oxospiro(3,4-dihydro-2*H*-1,3-benzoxazine-2,2'-[2*H*]chromene) possessing photochromic properties in the solid phase, **3**, 462

Redox properties of N_2S_2 -type nickel complexes with aromatic ligands. Crystal structure of $[\text{1,2-C}_6\text{H}_4(\text{SMe})\text{NH}_2]_2\text{Ni}^{2+}(\text{MeCN})_2 \cdot 2\text{ClO}_4^-$, **3**, 467

Binuclear and polynuclear transition metal complexes with macrocyclic ligands. 2. New macrocyclic Schiff's base in the reaction of 4-*tert*-butyl-2,6-diformylphenol with 1,2-diaminobenzene. Synthesis and structural, spectroscopic, and theoretical study, **3**, 488

Reaction of ruthenacarborane with trifluoroacetoxymercuroferracarborane, **3**, 517

Tetranuclear rhenium chalcogenide cluster complexes with a cubane core. Synthesis, structures, and properties (review), **4**, 569

Reactions of *N,N*-(dialkyl)arylthioacetamides with dialkyl acetylenedicarboxylates, **4**, 653

Heteroorganic betaines. 8. Synthesis and structures of silicon- and germanium-containing organoarsenic betaines $R^1_3As^+ - CR^2R^3 - EMe_2 - S^-$ ($E = Si, Ge$), **4**, 678

Half-sandwich complexes of lanthanides with tridentate ligands $[RCH_2CH(O)CH_2OBu^n]^{2-}$ ($R = C_5H_4, 1-C_9H_6$): synthesis, structures, and properties. The crystal structure of the complex $\{[(\eta^5-C_5H_4)CH_2CH(\mu^2:\eta^1-O)CH_2OBu^n]LaN(SiMe_3)_2\}_2$, **4**, 684

Transformations of spirocycloaddimers of 1,3-bis(ferrocenylmethylidene)-2-methylidenecycloalkanes in acid medium, **4**, 691

New heteroorganic betaines containing the $(^+)E^{15}-C-E^{14}-X^{(-)}$ and $(^+)E^{15}-C-E^{14(-)}$ structural fragments ($E^{15} = P, As$; $E^{14} = Si, Ge, Sn$; $X = C, S, O, NR$) (review), **5**, 721

Crystal and molecular structures of fluorinated derivatives of C_{60} fullerene, **5**, 754

Chemistry of acyl(imido)ketenes. 7. Synthesis and thermolysis of 5-aryl-4-quinoxaliny-2,3-dihydrofuran-2,3-diones, **5**, 850

23-Electron Re_6 metal clusters: syntheses and crystal structures of $(Ph_4P)_3[Re_6S_8(CN)_6]$, $(Ph_4P)_2(H)[Re_6Se_8(CN)_6] \cdot 8H_2O$, and $(Et_4N)_2(H)[Re_6Te_8(CN)_6] \cdot 2H_2O$, **5**, 866

Rhenium complexes with pyrazoles. Synthesis and crystal structure of *trans*- $[Re(O)(OMe)L_4]Br_2 \cdot L \cdot 4H_2O$ (L is 3,5-dimethylpyrazole), **5**, 872

Reactions of the $Ru_3(CO)_{10}(\mu-Ph_2PCH_2PPh_2)$ cluster with enynes $RCH=CHC\equiv CR$ (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

Potentially hexadentate bisazine dioximate ligands: "correct" synthetic procedure and encapsulation reactions of the iron(II) ion, **6**, 1015

Reactions of 2-(2-chloro-4,5-dihydro-3-furyl)-1,3-diphenyl-1,3-diaza- $2\lambda^3$ -phospholidine with nitrile imines, **6**, 1045

Synthesis and structures of triphenylantimony oximates, **6**, 1051

PCP pincer ligands based on metallocenes. Crystal structure of the rhodium complex *cis*- $RhCl_2(CO)[\{2,5-(Pr^i_2PCH_2)_2C_5H_2\}Fe(C_5H_5)]$, **6**, 1077

Synthesis and molecular structure of the first vinylidene complex $[Cp(CO)_2MnCu(\mu-C=CHPh)(\mu-Cl)]_2$ with the Mn—Cu bond, **7**, 1339

Stereoselective synthesis of *cis*-4,7-disubstituted 4,7-dihydroxy-4,7-dihydro[2.2]paracyclophanes, **8**, 1483

Diastereoselective synthesis of substituted 1,3,6-triazabicyclo[3.1.0]hexanes, **8**, 1497

Photochromic dihetarylethenes. 13. Optimization of conditions for the acylation of 2,5-dimethylthiophene with squaric acid dichloride, **8**, 1510

Reactions of 5-dihydrocotarnyl-1,3-dimethylbarbituric acid and other cotarnine derivatives with 1,3-dimethylbarbituric acid. X-ray diffraction analysis of a 5,5-spiro derivative of 1,3-dimethylbarbituric acid, **8**, 1540

Anilinomethylidene derivatives of cyclic 1,3-dicarbonyl compounds in the synthesis of new sulfur-containing pyridines and quinolines, **8**, 1556

2-Phenyl-1-boraadamantane complexes. Crystal structure and use in the synthesis of cage compounds, **8**, 1562

Reactions of pyrrole-2,5-dicarbaldehyde with 2-aminodiphenylamine in the presence of nickel and cobalt trimethylacetates, **8**, 1575

Formation of cobalt(III) cations with semiquinonedimine ligands, **8**, 1581

Single-, double-, and triple-charged cations based on iron-subgroup decamethylmetallocenes (review), **9**, 1616

Crystal structure and fluorescence properties of *p*-nitrobenzoylanisoylmethane and its complex with boron difluoride, **9**, 1715

Photochromic dihetarylethenes. 17. Synthesis and photochromic properties of dithienylethenes containing new heterocyclic bridging fragments, **9**, 1731

Selected properties of bi- and trinuclear complexes prepared by the reactions of $Ru_3(CO)_{12}$ with β -substituted oxadienes, **9**, 1754

Reaction of 3-(*N*-phenylamino)-1-*p*-tolylprop-2-en-1-one with $Ru_3(CO)_{12}$, **9**, 1771

Synthesis and crystal structures of supramolecular adducts of molybdenum and tungsten selenide aqua complexes with macrocyclic cavitand cucurbituril, **10**, 1800

Reactions of cyclic enehydrazino ketones with arylidenemalononitriles. Synthesis of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1862

Synthesis of 12-aryl-1-oxo-1,2,3,4,5,12-hexahydroindolo[2,1-*b*]quinazoline-6-carbonitriles by recyclization of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1869

Synthesis and properties of ferrocenylalkyl derivatives of indazole, **10**, 1894

Synthesis and crystal structure of the nanosized supramolecular Sm^{III} complex with macrocyclic cavitand cucurbituril $\{[Sm(H_2O)_4]_2(C_{36}H_{36}N_{24}O_{12})_3\}Br_6 \cdot 44H_2O$, **10**, 1915

First example of the cluster ammine complex $[Re_6Se_7Br(NH_3)_6]^{3+}$: synthesis and structure of the $[Re_6Se_7Br(NH_3)_6][Re_6Se_7Br_6] \cdot 12H_2O$ salt, **10**, 1919

(Arene)ruthenium complexes with the monoanionic carborane ligand $[9-SMe_2-7,8-C_2B_9H_{10}]^-$, **10**, 1928

Study of alkaloids of the Siberian and Altai flora. 8. Crystal and molecular structure of elatidal methylimine hydrate, **10**, 1965

Cyclization of *O*-benzoyl- β -piperidinopropionamidoximes to form 5-phenyl-3-(β -piperidino)ethyl-1,2,4-oxadiazoles, **11**, 2100

- Crystal structure and thermal stability of $\text{Ni}_{151.5}\text{Pb}_{24}\text{S}_{92}$. Search for selenium- and tellurium-containing analogs, **12**, 2139
- Characteristic features of intra- and intermolecular interactions in crystals of pyrrole-2-carbaldehyde isonicotinoyl hydrazone and its hydrate, **12**, 2224
- One-step synthesis of substituted 2-amino-4*H*-chromenes and 2-amino-4*H*-benzo[*f*]chromenes. Molecular and crystal structure of 2-amino-3-cyano-6-hydroxy-4-phenyl-4*H*-benzo[*f*]chromene, **12**, 2238
- Synthesis and structure of the $\text{Co}_3(\mu, \eta^2\text{-OOCBu}^t)_2(\mu\text{-OOCBu}^t)_4(\text{NEt}_3)_2$ complex containing a linear metal core, **12**, 2310
- Crystallization**
Crystalline carbon nitrides: thin films and bulk samples, **9**, 1633
- Cubane clusters**
Tetranuclear rhenium chalcogenide cluster complexes with a cubane core. Synthesis, structures, and properties (review), **4**, 569
- Cucurbituril**
Synthesis and crystal structure of supramolecular adduct of tetranuclear uranyl chloride aquacomplex with macrocyclic cavitand cucurbituril, **2**, 346
- Synthesis and crystal structures of supramolecular adducts of molybdenum and tungsten selenide aqua complexes with macrocyclic cavitand cucurbituril, **10**, 1800
- Synthesis and crystal structure of the nanosized supramolecular Sm^{III} complex with macrocyclic cavitand cucurbituril $\{[\text{Sm}(\text{H}_2\text{O})_4]_2(\text{C}_{36}\text{H}_{36}\text{N}_{24}\text{O}_{12})_3\}^+\text{Br}_6 \cdot 44\text{H}_2\text{O}$, **10**, 1915
- N*-Cyanamides**
Synthesis of indole-containing analogs of (1*R*)-*cis*-chrysanthemic acid and *N*-substituted (1*R*)-*cis*-chrysanthemylamines, **7**, 1308
- Cyanoacetylhydrazones**
Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205
- Cyanothioacetamide**
Anilinomethylidene derivatives of cyclic 1,3-dicarbonyl compounds in the synthesis of new sulfur-containing pyridines and quinolines, **8**, 1556
- Cyclic voltammetry**
Retro-Bingel reaction in the electrochemical reduction of bis(dialkoxyposphoryl)methanofullerenes, **1**, 72
- Synthesis and redox properties of bis-ferrocenylethynyl derivatives of bis(dimethylphosphinoethane)manganese, **1**, 170
- Electrochemical reduction and oxidation of fullereno-pyrrolidines and the ESR spectra of paramagnetic intermediates, **2**, 263
- Electrocatalytic reactions involving the $\text{Ni}^{\text{II}}\text{—Zn}^{\text{II}}\text{—}2,2'\text{-bipyridine}$ system, **2**, 269
- Redox properties of N_2S_2 -type nickel complexes with aromatic ligands. Crystal structure of $[\text{1,2-}\text{C}_6\text{H}_4(\text{SMe})\text{NH}_2]_2\text{Ni}^{2+}(\text{MeCN})_2 \cdot 2\text{ClO}_4^-$, **3**, 467
- Cyclization**
Synthesis of 5,6-indolo-12-crown-4 ethers, **1**, 135
- New approach to the synthesis of 2-carbamoylbenzothiazoles, **1**, 144
- Synthesis of 2-(imidazolylamino)benzothiazoles, **3**, 547
- Reactions of *N,N*-(dialkyl)arylthioacetamides with dialkyl acetylenedicarboxylates, **4**, 653
- 1,2,4-Triazino[5,6,1-*ij*]quinolines: a new type of tricyclic analogs of fluoroquinolones, **4**, 663
- Spirocyclohexadienones. 5. Synthesis of 2-*R*-7*a*-methyl-3-(spirocyclohexa-2,5-dien-4-one)perhydro-1-indolines, **4**, 709
- Heterocyclic analogs of pleiadene. 70. Synthesis of 6-hydroxy-1,3-diazapyrenes, **5**, 860
- Influence of the size of the formed cycle on the reactivity of free radicals in cyclization reactions, **6**, 949
- Reactions of α -fluorine-containing β -functionalized vinyl sulfides with *N*-nucleophiles, **6**, 1020
- Synthesis of substituted thiophenes based on fluorine-containing β -functionalized vinyl sulfides, **6**, 1028
- Sulfur ylides. 11. Selected chemical transformations of 1-methylthio-3,4-dihydropyrido[2,1-*a*]isoindole-2,6-dione, **6**, 1035
- Synthesis of nitrobenzoazacrown compounds by ring transformations of nitrobenzocrown ethers, **7**, 1335
- 2-Phenyl-1-boraadamantane complexes. Crystal structure and use in the synthesis of cage compounds, **8**, 1562
- Synthesis of thieno[3,4-*d*]pyrimidines by the reactions of 3-amino-4-carbamoylthiophene derivatives with 1,3-dicarbonyl compounds, **10**, 1879
- Cyclization of *O*-benzoyl- β -piperidinopropionamidoximes to form 5-phenyl-3-(β -piperidino)ethyl-1,2,4-oxadiazoles, **11**, 2100
- Three-component cyclization of hydroxylamino-substituted quinoline with reactive methylene compounds and formaldehyde: new method for the synthesis of 7-(isoxazolidin-2-yl)-6-fluoroquinolones, **11**, 2106
- Synthesis of 1-(2-polyfluoroacylamino)phenyl-3-polyfluoroalkylpropane-1,3-diones and 2-polyfluoroalkyl-4-quinolones, **11**, 2109
- Cycloaddition**
Cascade cycloaddition reactions involving dimethylhydrazones of α -substituted acroleins, **2**, 326
- Stereocontrolled synthesis of *trans*-2-hydroxymethyl-3-methylcyclopentanone from (*S*)-(+)-citronellene, **2**, 359
- Cycloaddition to buckminsterfullerene C_{60} : advancements and future prospects (review), **3**, 367
- 8-Hydroxyquinolates of trivalent metals as new catalysts for the reaction of CO_2 with epoxides, **5**, 836
- Chemistry of acyl(imidoyl)ketenes. 7. Synthesis and thermolysis of 5-aryl-4-quinoxalanyl-2,3-dihydrofuran-2,3-diones, **5**, 850
- Alkynylhalocarbenes. 4. Generation of (alk-1-ynyl)halocarbenes from 3-substituted 1,1,1,3-tetrahalopropanes under the action of bases, **7**, 1237
- Reactions of nitrogenous derivatives of substituted salicylaldehydes with cyclic ketones and enamines, **7**, 1262

Synthesis of a single isomer of the bis-adduct of isocyanurato-substituted azide with [60]fullerene, **8**, 1491

Fluorinated cyclohexadienones as versatile synthons for preparation of organofluorine compounds (review), **10**, 1775

Cycloalkanols

Solid-phase oxoalkylation of pyridines and quinolines with 1-methylcycloalkanols under the action of lead tetraacetate, **10**, 1812

2-(Cycloalk-1-enyl)anilines

Oxidation of *N*-acyl-2-(cycloalk-1-enyl)anilines with ozone and hydrogen peroxide, **1**, 124

Cycloalumination

Synthesis and transformations of metallacycles. 28. Reactions of allenes with EtAlCl₂ and Et₂AlCl catalyzed by Ti and Zr complexes, **12**, 2255

Cyclocondensation

Synthesis of (7-polyfluoroalkyl)pyrazolo[1,5-*a*]pyrimidines based on lithium fluorine-containing β-diketonates, **2**, 332

Synthesis and hydroxydeamination in the series of 6-aryl- and 6-benzoimidazolyl-7-aminoazolo[5,1-*c*]-1,2,4-triazines, **9**, 1737

β-Cyclodextrin

A practical method for synthesis of stable phosphorus ylides in aqueous media, **12**, 2244

Cyclodimerization

Transformations of spirocyclodimers of 1,3-bis(ferrocenylmethylidene)-2-methylidenecycloalkanes in acid medium, **4**, 691

Cyclohexa-2,5-dien-1-one

Spirocyclohexadienones. 5. Synthesis of 2-*R*-7a-methyl-3-(spirocyclohexa-2,5-dien-4-one)perhydro-1-indolines, **4**, 709

Spirocyclohexadienones. 6. Three-component synthesis of 1-*R*-3,3-dimethyl-2-azaspiro[4.5]deca-1,6,9-trien-8-ones, **5**, 894

Cyclohexadienones

Fluorinated cyclohexadienones as versatile synthons for preparation of organofluorine compounds (review), **10**, 1775

Cyclohexane

Cyclohexane transformations over metal oxide catalysts. 1. Effect of the nature of metal and support on the catalytic activity in cyclohexane ring opening, **2**, 249

Cyclohexane transformations over metal oxide catalysts. 2. Selective cyclohexane ring opening to form *n*-hexane over mono- and bimetallic rhodium catalysts, **2**, 255

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Catalytic systems based on platinum and heteropoly compounds for oxidation of hydrocarbons with a dioxygen-dihydrogen gaseous mixture, **6**, 975

Cyclohexane-1,3-dione

Reactions of cyclic enehydrazino ketones with arylidene-malononitriles. Synthesis of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1862

Cyclohexanol

Spirocyclohexadienones. 5. Synthesis of 2-*R*-7a-methyl-3-(spirocyclohexa-2,5-dien-4-one)perhydro-1-indolines, **4**, 709

Binding of cyclic compounds by starch cryotextures from aqueous solutions, **9**, 1689

Cyclohexanone oxime

Synthesis and structures of triphenylantimony oximates, **6**, 1051

Cyclohexanones

Stereoselective electrochemical transformation of 4-substituted cyclohexanones into *cis*-5-substituted 2,2-dimethoxycyclohexanols, **8**, 1478

Cyclohexasilane

Synthesis of dichloro derivatives of linear and cyclic permethyloligosilanes and cyclolinear permethylpolysilane-siloxanes and permethylpolyoxysilane based on them, **1**, 175

Cyclohexenylanilines

Synthesis of 1-iodo-1,2,3,4,4a,9a-hexahydrocarbazoles and their isomerization into 3-iodo-2,4-propano-1,2,3,4-tetrahydroquinolines, **7**, 1329

Cyclolinear permethylpolysilane-siloxanes

Synthesis of dichloro derivatives of linear and cyclic permethyloligosilanes and cyclolinear permethylpolysilane-siloxanes and permethylpolyoxysilane based on them, **1**, 175

Cyclopentadiene

New approaches to syntheses of diethers and haloethers from cyclopentadiene, **4**, 616

Aza Diels-Alder reactions of methyl trifluoropyruvate sulfonyl- and phosphorylimines with 1,3-dienes, **7**, 1298

Cyclopentadienyl

Half-sandwich complexes of lanthanides with tridentate ligands [RCH₂CH(O)CH₂OBUⁿ]²⁻ (R = C₅H₄, 1-C₉H₆): synthesis, structures, and properties. The crystal structure of the complex {[η⁵-C₅H₄)CH₂CH(μ²:η¹-O)CH₂OBUⁿ]LaN(SiMe₃)₂}, **4**, 684

1-Cyclopentadienyl-3-butoxypropan-2-ol

Half-sandwich complexes of lanthanides with tridentate ligands [RCH₂CH(O)CH₂OBUⁿ]²⁻ (R = C₅H₄, 1-C₉H₆): synthesis, structures, and properties. The crystal structure of the complex {[η⁵-C₅H₄)CH₂CH(μ²:η¹-O)CH₂OBUⁿ]LaN(SiMe₃)₂}, **4**, 684

Cyclopenta[*c*]dihydroisoxazole

Stereocontrolled synthesis of *trans*-2-hydroxymethyl-3-methylcyclopentanone from (*S*)-(+)-citronellene, **2**, 359

Cyclopenta[*c*]isoxazolidine

Stereocontrolled synthesis of *trans*-2-hydroxymethyl-3-methylcyclopentanone from (*S*)-(+)-citronellene, **2**, 359

Cyclopentanes

VALISA: a new procedure for total lineshape analysis of NMR spectra. Conformational analysis of *trans*-1,2-dibromocyclopentane, **7**, 1222

Cyclopentene

New approaches to syntheses of diethers and haloethers from cyclopentadiene, **4**, 616

Cyclopropanation

Reactions of (1*S*,3*S*)-3-acetoxymethyl-1-(2-acetoxymethyl)-2,2-dimethylcyclopropane with haloforms under conditions of phase-transfer catalysis, **9**, 1765

Sulfur ylides. 12. Optically active keto stabilized sulfur ylide obtained from L-proline: synthesis and study, **12**, 2230

Cyclopropanes

Synthesis of indole-containing analogs of (1*R*)-*cis*-chrysanthemic acid and *N*-substituted (1*R*)-*cis*-chrysanthemylamines, **7**, 1308

Reactions of (1*S*,3*S*)-3-acetoxymethyl-1-(2-acetoxyvinyl)-2,2-dimethylcyclopropane with haloforms under conditions of phase-transfer catalysis, **9**, 1765

N- and *O*-Alkylation of 3-indolylicyclopropylacetic acid derivatives, **10**, 1829

Cytosine

Oligoribonucleotides containing an aminoalkyl group at the N(4) atom of cytosine as precursors of new reagents for site-specific modifications of biopolymers, **7**, 1194

D

Damascenone

Gas chromatographic and IR spectroscopic characteristics of tri- and tetramethylcyclohexenyl butenyl ketones, **9**, 1684

Damascones

Gas chromatographic and IR spectroscopic characteristics of tri- and tetramethylcyclohexenyl butenyl ketones, **9**, 1684

Dearylation

Heterocyclic analogs of pleadiene. 70. Synthesis of 6-hydroxy-1,3-diazapyrenes, **5**, 860

Decahydroquinolin-4-ols

Chemical ionization mass spectrometric determination of the configuration of decahydroquinolin-4-ols, **10**, 1959

Decomposition in solutions

Chain and monomolecular decomposition of hexogen in solutions, **8**, 1433

Decyanation

Synthesis of indole-containing analogs of (1*R*)-*cis*-chrysanthemic acid and *N*-substituted (1*R*)-*cis*-chrysanthemylamines, **7**, 1308

Decyclization

Reactions of secondary amines with derivatives of 5-(2-methyl-3-furyl)cyclopent-2-en-1-one, **6**, 1068

Solid-phase oxoalkylation of pyridines and quinolines with 1-methylcycloalkanols under the action of lead tetraacetate, **10**, 1812

4,5-Dedihydropipecolic acids

Aza Diels–Alder reactions of methyl trifluoropyruvate sulfonyl- and phosphorylimines with 1,3-dienes, **7**, 1298

Dehydration

Influence of rhenium additives on the activity of Cu/sibunit catalyst in transformations of isopropyl alcohol, **9**, 1768

Cyclization of *O*-benzoyl- β -piperidinopropionamidoximes to form 5-phenyl-3-(β -piperidino)ethyl-1,2,4-oxadiazoles, **11**, 2100

Dehydrobenzene

Reactions of the $\text{Ru}_3(\text{CO})_{10}(\mu\text{-Ph}_2\text{PCH}_2\text{PPh}_2)$ cluster with enynes $\text{RCH}=\text{CHC}\equiv\text{CR}$ (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

Dehydrobenzene complexes

Synthesis and the crystal structure of the triosmium cluster with the μ -dehydrobenzene ligand, $\text{Os}_3(\mu\text{-H})_2(\text{CO})_7(\mu\text{-C}_6\text{H}_4)\{\mu_3\text{-Ph}_2\text{PCH}_2\text{P}(\text{C}_6\text{H}_4)\text{Ph}\}$, **2**, 350

Dehydrochlorination

Sulfurization of polymers. 6. Poly(vinylene polysulfide), poly(thienothiophene), and related structures from polyacetylene and elemental sulfur, **9**, 1709

Dehydrofluorination

Condensation of polyfluorinated β -diimines with aromatic aldehydes, **4**, 712

Dehydrogenation

Cyclohexane transformations over metal oxide catalysts. 1. Effect of the nature of metal and support on the catalytic activity in cyclohexane ring opening, **2**, 249

Formation of dehydrogenated derivatives upon the oxidative dehydrogenation of adamantanes, **2**, 364

Formation of cobalt(III) cations with semiquinonediimine ligands, **8**, 1581

Dehydrogenation of methanol on low Cu and Re–Cu catalysts supported on sibunit, **9**, 1698

Influence of rhenium additives on the activity of Cu/sibunit catalyst in transformations of isopropyl alcohol, **9**, 1768

Dehydrohalogenation

Alkynylhalocarbenes. 4. Generation of (alk-1-ynyl)halocarbenes from 3-substituted 1,1,1,3-tetrahalopropanes under the action of bases, **7**, 1237

Demethylation

Chromium arene complexes in synthesis of *trans*-resveratrol, **7**, 1319

Deoxidation

Synthesis and properties of [1,4]diazepino[6,5-*b*]indoles, **3**, 506

Deoxynucleotide monophosphates

Synthesis of phosphamide conjugates of 5'-mononucleotides with carcinine and its analogs, **10**, 1940

Deoxyribonucleic acid

DNA modification by *cis*-diaminoplatinum(II) complexes with aminonitroxide ligands, **6**, 1058

Thermodynamic parameters of coaxial stacking on stacking hybridization of oligodeoxyribonucleotides, **7**, 1145

Cleavage of a DNA fragment by a binary oligonucleotide reagent, **7**, 1171

Deprotonation

Chromium arene complexes in synthesis of *trans*-resveratrol, **7**, 1319

A new method for the generation of stable phenoxy radicals by the reaction of $[(\text{Me}_3\text{Si})_2\text{N}]_2\text{E}$ (E = Ge, Sn) with sterically hindered phenols, **10**, 1961

Descriptors

The use of saturated vapor pressure at standard temperature in correlations of physicochemical properties, **11**, 2008

Destruction

Chemiluminescence accompanying chitosane destruction in hydrochloric acid solution containing hydrogen peroxide, **1**, 54

Desulfurization

Sulfur ylides. 11. Selected chemical transformations of 1-methylthio-3,4-dihydropyrido[2,1-*a*]isoindole-2,6-dione, **6**, 1035

Deuterionaphthalenes

Analysis of vibrational spectra of naphthalene, deuterionaphthalenes, and chromium (η^6 -naphthalene)tricarbonyl based on density functional calculations, **9**, 1656

Deuterofullerite

Thermal decomposition of deuterofullerite, **1**, 96

Dialkoxycyclopentenes

New approaches to syntheses of diethers and haloethers from cyclopentadiene, **4**, 616

Dialkyl acetylenedicarboxylates

Reactions of *N,N*-(dialkyl)arylthioacetamides with dialkyl acetylenedicarboxylates, **4**, 653

1,3-Dialkylaluminacyclopentanes

Regioselective splitting of 3-alkyl-1-ethylaluminacyclopentanes with orthoformates as a new route to 1-functionalized 4-methylalkanes, **5**, 901

5,5-Dialkyl-2-amino-2-(trichloromethyl)tetrahydro-4-pyrones

Unexpected synthesis of 6-amino-2,3-dihydro-4-pyrone-3-spirocyclohexane, **1**, 181

1,1-Dialkyl-2-arylethanol

Synthesis of substituted bis(3,3-dialkyl-3,4-dihydro-1-isoquinolyl)methanes, **7**, 1303

***N,N*-(Dialkyl)arylthioacetamides**

Reactions of *N,N*-(dialkyl)arylthioacetamides with dialkyl acetylenedicarboxylates, **4**, 653

Diamines

Study of alkaloids of the Siberian and Altai flora. 7. Synthesis of 18-amino-18-deoxy derivatives of elatidine, **3**, 531

Study of alkaloids of the Siberian and Altai flora. 9. Synthesis of amino derivatives of elatidine, **12**, 2290

1,2-Diaminobenzene

Binuclear and polynuclear transition metal complexes with macrocyclic ligands. 2. New macrocyclic Schiff's base in the reaction of 4-*tert*-butyl-2,6-diformylphenol with 1,2-diaminobenzene. Synthesis and structural, spectroscopic, and theoretical study, **3**, 488

Diaminodiphenylmethane

Synthesis of new macrocyclic aminomethylphosphines based on 4,4'-diaminodiphenylmethane and its derivatives, **1**, 151

Diaminogermylene

A new method for the generation of stable phenoxyl radicals by the reaction of $[(\text{Me}_3\text{Si})_2\text{N}]_2\text{E}$ (E = Ge, Sn) with sterically hindered phenols, **10**, 1961

1,3-Diaminopropane monoamines

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

Diaminostannylene

A new method for the generation of stable phenoxyl radicals by the reaction of $[(\text{Me}_3\text{Si})_2\text{N}]_2\text{E}$ (E = Ge, Sn) with sterically hindered phenols, **10**, 1961

Dianions

Retro-Bingel reaction in the electrochemical reduction of bis(dialkoxylphosphoryl)methanofullerenes, **1**, 72

Electrochemical reduction and oxidation of fullereno-pyrrolidines and the ESR spectra of paramagnetic intermediates, **2**, 263

2,7-Diaryl-3-cyano-4-methylpyrano[4,3-*b*]pyridin-5-ones

On the reactions of aroylacetonitriles with acetoacetates, **8**, 1545

Diaryliodonium salts

Electrochemical arylation of cobalt and nickel chelates with diphenyliodonium salts, **1**, 85

Diastereomers

Diastereoselective synthesis of substituted 1,3,6-triazabicyclo[3.1.0]hexanes, **8**, 1497

Reactions of cyclic enehydrazino ketones with arylidene-malononitriles. Synthesis of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1862

1,4-Diazabicyclo[2.2.2]octane

Design and synthesis of artificial ribonucleases based on 1,4-diazabicyclo[2.2.2]octane and imidazole (review), **7**, 1100

1,8-Diazabicyclo[5.4.0]undec-7-ene

On the reactions of aroylacetonitriles with acetoacetates, **8**, 1545

Di(azahomo)[60]fullerene

Synthesis of a single isomer of the bis-adduct of isocyanurato-substituted azide with [60]fullerene, **8**, 1491

1,3-Diazapyrene

Heterocyclic analogs of pleiadene. 69. Synthesis and oxidative hydroxylation of 1-alkyl-1,3-diazapyrenium salts, **1**, 139

[1,4]Diazepino[6,5-*b*]indoles

Synthesis and properties of [1,4]diazepino[6,5-*b*]indoles, **3**, 506

Diaziridines

Diastereoselective synthesis of substituted 1,3,6-triazabicyclo[3.1.0]hexanes, **8**, 1497

Diazo compounds

Cycloaddition to buckminsterfullerene C_{60} : advancements and future prospects (review), **3**, 367

Diazo ketone

Sulfur ylides. 10. Modified method for the synthesis of pyrrolizine- and indolizinediones, **1**, 189

Diazomethane

Fluorinated cyclohexadienones as versatile synthons for preparation of organofluorine compounds (review), **10**, 1775

Diazotization

Application of the Thorpe—Ziegler reaction for the synthesis of functionalized thiophenes, thienopyrimidines, and thienotriazines, **5**, 854

Synthesis of functional 2-substituted 4-phenyl-9*H*-pyrimido[4,5-*b*]indoles, **11**, 2129

Dibenzenetitanium(0)

Copolymerization of acetylene with ethylene in the presence of dibenzenetitanium(0), **5**, 817

Dibenzylphosphine oxide

Reactions of dibenzylphosphine oxide with α,β -unsaturated nitriles: synthesis of aminophospholene oxides, **4**, 671

trans-1,2-Dibromocyclopentan

VALISA: a new procedure for total lineshape analysis of NMR spectra. Conformational analysis of *trans*-1,2-dibromocyclopentane, **7**, 1222

Dibromocyclopropanes

Reactions of (1*S*,3*S*)-3-acetoxymethyl-1-(2-acetoxyvinyl)-2,2-dimethylcyclopropane with haloforms under conditions of phase-transfer catalysis, **9**, 1765

Dibromoisocyanuric acid

Nitration and bromination of benzo-1,2,3,4-tetrazine 1,3-dioxides, **10**, 1841

6,8-Dibromo-5-nitro-2-trifluoromethylchromones

2-Polyfluoroalkylchromones. 13. Synthesis and nitration of 6,8-dibromo-2-trifluoromethylchromone, **10**, 1954

6,8-Dibromo-2-trifluoromethylchroman-4-one

2-Polyfluoroalkylchromones. 13. Synthesis and nitration of 6,8-dibromo-2-trifluoromethylchromone, **10**, 1954

6,8-Dibromo-2-trifluoromethylchromone

2-Polyfluoroalkylchromones. 13. Synthesis and nitration of 6,8-dibromo-2-trifluoromethylchromone, **10**, 1954

Di-tert-butoxy-tert-butyl alumotrioxide

ESR study of the thermal decomposition of di-*tert*-butoxy-*tert*-butyl alumotrioxide formed in the reaction of tri-*tert*-butoxyaluminum with *tert*-butyl hydroperoxide, **4**, 638

2,6-Di-tert-butyl phenoxides

Formation and properties of a catalyst based on sodium and potassium hydroxides in the reaction of 2,6-di-*tert*-butylphenol with methyl acrylate, **12**, 2189

2,6-Di-tert-butylphenol

Formation and properties of a catalyst based on sodium and potassium hydroxides in the reaction of 2,6-di-*tert*-butylphenol with methyl acrylate, **12**, 2189

1,3-Dicarbonyl compounds

Anilinomethylidene derivatives of cyclic 1,3-dicarbonyl compounds in the synthesis of new sulfur-containing pyridines and quinolines, **8**, 1556

Synthesis of thieno[3,4-*d*]pyrimidines by the reactions of 3-amino-4-carbamoylthiophene derivatives with 1,3-dicarbonyl compounds, **10**, 1879

Three-component cyclization of hydroxylamino-substituted quinoline with reactive methylene compounds and formaldehyde: new method for the synthesis of 7-(isoxazolidin-2-yl)-6-fluoroquinolones, **11**, 2106

Dicarboxylic acids

ESR study of weak exchange interactions in binuclear copper(II) complexes with acyldihydrazones of fluorinated β -diketones, **4**, 632

ESR study of weak exchange interactions in binuclear copper(II) complexes with 2-hydroxyacetophenone acyldihydrazones, **12**, 2268

Synthesis and study of binuclear vanadyl complexes with acyldihydrazones of salicylaldehyde and dicarboxylic acids, **12**, 2273

5,7-Dichloro-4-nitro-2,1,3-benzoxadiazole

Molecular and crystal structures of 5,7-dichloro-4-nitro-2,1,3-benzoxadiazole and products of its reactions with secondary amines, **1**, 105

 α,ω -Dichloropermethylogosilanes

Synthesis of α,ω -dichloropermethylogosilanes by reactions of polydimethylsilane with metal chlorides, **9**, 1751

Dicyclopentadiene

New approaches to syntheses of diethers and haloethers from cyclopentadiene, **4**, 616

Dicyclopropanes

Reactions of (1*S*,3*S*)-3-acetoxymethyl-1-(2-acetoxyvinyl)-2,2-dimethylcyclopropane with haloforms under conditions of phase-transfer catalysis, **9**, 1765

Dielectric constant

Influence of conditions for preparation of fullerene-containing carbon black on its microwave properties and yield of fullerenes, **6**, 936

Diels—Alder reaction

Cascade cycloaddition reactions involving dimethylhydrazones of α -substituted acroleins, **2**, 326

Cycloaddition to buckminsterfullerene C₆₀: advancements and future prospects (review), **3**, 367

Synthesis of new CF₃-containing 3,4-dihydro-2*H*-pyrans, **4**, 649

Aza Diels—Alder reactions of methyl trifluoropyruvate sulfonyl- and phosphorylimines with 1,3-dienes, **7**, 1298

Dienediynes

Stereospecific 1,4-*cis*-hydrogenation of conjugated dienes, dienynes, and dienediynes catalyzed by chromium carbonyl complexes in stereocontrolled syntheses of physiologically active olefins (review), **8**, 1341

Dienes

Aza Diels—Alder reactions of methyl trifluoropyruvate sulfonyl- and phosphorylimines with 1,3-dienes, **7**, 1298

Stereospecific 1,4-*cis*-hydrogenation of conjugated dienes, dienynes, and dienediynes catalyzed by chromium carbonyl complexes in stereocontrolled syntheses of physiologically active olefins (review), **8**, 1341

Dienophiles

Cascade cycloaddition reactions involving dimethylhydrazones of α -substituted acroleins, **2**, 326

Aza Diels—Alder reactions of methyl trifluoropyruvate sulfonyl- and phosphorylimines with 1,3-dienes, **7**, 1298

Dienynes

Stereospecific 1,4-*cis*-hydrogenation of conjugated dienes, dienynes, and dienediynes catalyzed by chromium carbonyl complexes in stereocontrolled syntheses of physiologically active olefins (review), **8**, 1341

Diethyl malonate

A practical method for synthesis of stable phosphorus ylides in aqueous media, **12**, 2244

Diethyl oxalate

Synthesis of 3-acetyl-4-amino-6-arylpyran-2-ones and ethyl 7-aryl-4,5(1*H*,5*H*)-dioxopyrano[4,3-*b*]pyridine-2-carboxylates, **3**, 503

1,3-Diferrocenylprop-2-en-1-one

Selected properties of bi- and trinuclear complexes prepared by the reactions of Ru₃(CO)₁₂ with β -substituted oxadienes, **9**, 1754

Differential thermogravimetric analysis

Crystal structure and thermal stability of $\text{Ni}_{151.5}\text{Pb}_{24}\text{S}_{92}$. Search for selenium- and tellurium-containing analogs, **12**, 2139

Diffusion

Proton mobility in hydrates of inorganic acids and acid salts (review), **4**, 555

Dynamics of probe in network of polymeric cation exchanger studied by Fourier transform analysis of Mössbauer spectra, **12**, 2196

Difluoroaromatic compounds

Activated bis- and tetrafluoroaromatic compounds containing bis-phenylquinoxaline fragments, **6**, 1039

Difurazanyl ethers

Transetherification of difurazanyl ethers as a route to unsymmetrical derivatives of difurazanyl ether, **4**, 659

Nucleophilic substitution in the furazan series. Reactions of nitrofurazans with ammonia, **8**, 1533

Dihalocarbenes

Reactions of (1*S*,3*S*)-3-acetoxymethyl-1-(2-acetoxyvinyl)-2,2-dimethylcyclopropane with haloforms under conditions of phase-transfer catalysis, **9**, 1765

Dihalogermynes

Redox reactions of Ge^{II} and Sn^{II} dihalides with triethylsilane and triethylgermane, **7**, 1325

Dihalostannylenes

Redox reactions of Ge^{II} and Sn^{II} dihalides with triethylsilane and triethylgermane, **7**, 1325

Dihetarylethenes

Photochromic dihetarylethenes. 13. Optimization of conditions for the acylation of 2,5-dimethylthiophene with squaric acid dichloride, **8**, 1510

Photochromic dihetarylethenes. 14. Synthesis of symmetrical and unsymmetrical dihetarylcyclobutene-1,2-diones, **8**, 1515

Photochromic dihetarylethenes. 18. New approach to the synthesis of dithienothiophene and preparation of its photochromic derivative, **11**, 2097

5-Dihydrocotarnyl-1,3-dimethylbarbituric acid

Reactions of 5-dihydrocotarnyl-1,3-dimethylbarbituric acid and other cotarnine derivatives with 1,3-dimethylbarbituric acid. X-ray diffraction analysis of a 5,5-spiro derivative of 1,3-dimethylbarbituric acid, **8**, 1540

Dihydrodiphenylsilane

Ring-closing metathesis of 2,2-diallyl derivatives of pyrrolidine and piperidine: a route to azaspiroheterocyclic structures, **4**, 645

2,3-Dihydrofuran-2,3-diones

Chemistry of acyl(imido)ketenes. 7. Synthesis and thermolysis of 5-aryl-4-quinoxaliny-2,3-dihydrofuran-2,3-diones, **5**, 850

5,6-Dihydroindolo[2,1-*a*]isoquinolines

Indolopyridines containing a bridgehead heteroatom. 12. Synthesis and reduction of 12-arylidene-5,6-dihydroindolo[2,1-*a*]isoquinolinium trifluoroacetates, **11**, 2116

 η^3 -Dihydropyran rings

Selected properties of bi- and trinuclear complexes prepared by the reactions of $\text{Ru}_3(\text{CO})_{12}$ with β -substituted oxadienes, **9**, 1754

3,4-Dihydro-2*H*-pyrans

Synthesis of new CF_3 -containing 3,4-dihydro-2*H*-pyrans, **4**, 649

4,5-Dihydropyrazoles

1-Thiocarbamoyl(ferrocenyl)-4,5-dihydropyrazoles, **2**, 342

1,4-Dihydropyridines

Reactions of cyclic enehydrazino ketones with arylidene-malononitriles. Synthesis of 11-aryl-1-oxo-2,3,4,5,10*b*,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10*b*-carbonitriles, **10**, 1862

1,2-Dihydroquinolines

Dual reactivity of an intermediate cation formed in the photolysis of dihydroquinolines in methanol, **11**, 2055

2,3-Dihydro-1,4-thiazin-3-ones

Synthesis of 3-methoxy-5-oxo-6-phenyl-5,6-dihydro-4*H*-isothiazolo[5,4-*b*]-1,4-thiazine 7,7-dioxide, the first representative of a new heterocyclic system, **1**, 187

1,3-Dihydroxydecamethylcyclohexasilane

Synthesis of dichloro derivatives of linear and cyclic permethyloligosilanes and cycloliner permethylpolysilane-siloxanes and permethylpolyoxysilane based on them, **1**, 175

 β -Diimines

Condensation of polyfluorinated β -diimines with aromatic aldehydes, **4**, 712

 β -Diketonatoboron difluorides

Crystal structure and fluorescence properties of *p*-nitrobenzoylanisoylmethane and its complex with boron difluoride, **9**, 1715

 β -Diketone monooximes

2-Polyfluoroalkylchromones. 10. Synthesis of regioisomeric 3-(2-hydroxyaryl)-5-polyfluoroalkyl- and 5-(2-hydroxyaryl)-3-polyfluoroalkylisoxazoles and determination of their structures by ^1H , ^{19}F , and ^{13}C NMR spectroscopy, **7**, 1270

 β -Diketones

Synthesis of (7-polyfluoroalkyl)pyrazolo[1,5-*a*]pyrimidines based on lithium fluorine-containing β -diketonates, **2**, 332

ESR study of weak exchange interactions in binuclear copper(II) complexes with acyldihydrazones of fluorinated β -diketones, **4**, 632

Crystal structure and fluorescence properties of *p*-nitrobenzoylanisoylmethane and its complex with boron difluoride, **9**, 1715

Synthesis of 4-acyl(alkoxycarbonyl)-5-fluoroalkyl-3,5-dihydroxyfuran-2(5*H*)-ones, **9**, 1727

Dimedone

Reactions of cyclic enehydrazino ketones with arylidene-malononitriles. Synthesis of 11-aryl-1-oxo-2,3,4,5,10*b*,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10*b*-carbonitriles, **10**, 1862

1,4-Dimethoxybenzene

Three-component synthesis of 3,4-dihydroisoquinoline derivatives, **5**, 844

N-Dimethoxyphenylation of highly basic pyrazoles during undivided electrolysis, **6**, 998

N-Arylation of azoles with low basicity by 1,4-dimethoxybenzene during undivided electrolysis, **8**, 1523

2,2-Dimethoxycyclohexanols

Stereoselective electrochemical transformation of 4-substituted cyclohexanones into *cis*-5-substituted 2,2-dimethoxycyclohexanols, **8**, 1478

2,3-Dimethoxy-5-methyl-6-polyprenyl-1,4-benzoquinone

Ubiquinone Q₉ from a marine isolate of an actinobacterium *Nocardia* sp., **10**, 1951

Dimethyl acetals

Oxidation of *N*-acyl-2-(cycloalk-1-enyl)anilines with ozone and hydrogen peroxide, **1**, 124

Dimethyl sulfide

Sulfur ylides. 10. Modified method for the synthesis of pyrrolizine- and indolizinediones, **1**, 189

1,3-Dimethylbarbituric acid

Reactions of 5-dihydrocotarnyl-1,3-dimethylbarbituric acid and other cotarnine derivatives with 1,3-dimethylbarbituric acid. X-ray diffraction analysis of a 5,5-spiro derivative of 1,3-dimethylbarbituric acid, **8**, 1540

meso-2,3-Dimethylbutane-1,4-diol

Enzymatic dissymmetrization of *meso*-2,3-di-methylbutane-1,4-diol and its diacetate. Synthesis of scalemic (–)-lasiol, **3**, 481

1,3-Dimethyl-2,3-dihydro-1*H*-1,3,2-benzodiazaphospholium cation

The Mills—Nixon and anomeric effects in 2,3-dihydro-1*H*-1,3,2-benzodiazaphospholes: a gas-phase electron diffraction study of C₆H₄(NMe)₂PCl using quantum-chemical data and "a priori" force field, **11**, 2014

3,3-Dimethyl-3,4-dihydroisoquinoline

Three-component synthesis of 3,4-dihydroisoquinoline derivatives, **5**, 844

Dimethyldithiocarbamates

Metathetical imidation of dioxobis(dimethyldithiocarbamate)molybdenum with *o*-substituted *N*-sulfinylanilines, **6**, 1075

Dimethylformamide

Reactions of tautomeric quaternary phosphonium salts based on triphenylphosphine and 3-phenylpropargyl bromide with nitrogen nucleophiles, **1**, 148

Cyclization of *O*-benzoyl-β-piperidinopropionamidoximes to form 5-phenyl-3-(β-piperidino)ethyl-1,2,4-oxadiazoles, **11**, 2100

The aggregation and catalytic activity of amphiphilic calix[4]resorcinolarenes and phenols in hydrolysis of phosphonous esters in water—dimethylformamide media, **12**, 2183

Dimethylglyoxime

Synthesis and structures of triphenylantimony oximates, **6**, 1051

Dimethylhexanes

Mechanism of reaction of *n*-butane with but-2-enes in the presence of LaCaX faujasites, **5**, 783

Dimethylhydrazones

Cascade cycloaddition reactions involving dimethylhydrazones of α-substituted acroleins, **2**, 326

Dimethylpropa-1,2-dienylamine

Acetylene—allene rearrangement of propargyl systems X—CH₂—C≡CH (X = H, Me, NMe₂, OMe, F, SME): an *ab initio* study, **5**, 774

Dimethylprop-1(2)-ynylamine

Acetylene—allene rearrangement of propargyl systems X—CH₂—C≡CH (X = H, Me, NMe₂, OMe, F, SME): an *ab initio* study, **5**, 774

Dimethylpyrazole

Rhenium complexes with pyrazoles. Synthesis and crystal structure of *trans*-[Re(O)(OMe)L₄]Br₂·L·4H₂O (L is 3,5-dimethylpyrazole), **5**, 872

2,5-Dimethylthiophene

Photochromic dihetarylethenes. 13. Optimization of conditions for the acylation of 2,5-dimethylthiophene with squaric acid dichloride, **8**, 1510

Photochromic dihetarylethenes. 14. Synthesis of symmetrical and unsymmetrical dihetarylcyclobutene-1,2-diones, **8**, 1515

Dinitroalkane

Electrooxidative transformation of unsubstituted and substituted nitro hydrocarbons into carbonyl compounds, **8**, 1460

2,4-Dinitrobenzamides

Nitro derivatives of cyclic sulfoximides of the 1,2-benzothiazole series, **8**, 1549

Diols

Synthesis of new CF₃-containing 3,4-dihydro-2*H*-pyrans, **4**, 649

Generation of alkyl hypochlorites in oxidation of alcohols with carbon tetrachloride catalyzed by vanadium and manganese compounds, **11**, 2074

Dioxane

Redox reactions of Ge^{II} and Sn^{II} dihalides with triethylsilane and triethylgermane, **7**, 1325

Dioxo dienamines

Reactions of secondary amines with derivatives of 5-(2-methyl-3-furyl)cyclopent-2-en-1-one, **6**, 1068

Dioxygen

ESR study of the thermal decomposition of di-*tert*-butoxy-*tert*-butyl alumotrioxide formed in the reaction of tri-*tert*-butoxyaluminum with *tert*-butyl hydroperoxide, **4**, 638

rac-1,2-Diphenylethylene-1,2-diamine

One-pot synthesis of *rac*-1,2-diphenylethylene-1,2-diamine, **12**, 2308

2-(Diphenylphosphoryl)acetaldehyde phenylhydrazone

Phosphonioethylation of phenylhydrazine and hydroxylamine and selected properties of the resulting derivatives, **9**, 1744

Diphthalocyanine complexes

Electrocatalytic CO₂ reduction in methanol catalyzed by mono-, di-, and electropolymerized phthalocyanine complexes, **5**, 805

1,3-Dipolar cycloaddition

Three-component cyclization of hydroxylamino-substituted quinoline with reactive methylene compounds and form-aldehyde: new method for the synthesis of 7-(isoxazolidin-2-yl)-6-fluoroquinolones, **11**, 2106

Dipole echo

Features of nuclear magnetic relaxation of water and benzene molecules during absorption on activated carbons and estimation of pore size distribution in adsorbents, **11**, 2036

Dipole moments

Conformational analysis and regioisomerism of mono- and diadducts of *O,O*-diisopropyl isoxazolinophosphonate with C₆₀, **4**, 593

Dipyridylethylene

Formation of coordination polymeric structures on the basis of 4,4'-dipyridylethylene and Ag⁺ in solutions, **3**, 476

Quantum-chemical study of supramolecular complexes (DPyEt)_{*n*}(AgNO₃)_{*m*}, **12**, 2145

Diterpene alkaloids

Study of alkaloids of the Siberian and Altai flora. 7. Synthesis of 18-amino-18-deoxy derivatives of elatidine, **3**, 531

Study of alkaloids of the Siberian and Altai flora. 8. Crystal and molecular structure of elatidal methylimine hydrate, **10**, 1965

Study of alkaloids of the Siberian and Altai flora. 9. Synthesis of amino derivatives of elatidine, **12**, 2290

Dithienylcyclobutenediones

Photochromic dihetarylethenes. 14. Synthesis of symmetrical and unsymmetrical dihetarylcyclobutene-1,2-diones, **8**, 1515

4,5-Dithienyl-1,3-dioxol-2-ones

Photochromic dihetarylethenes. 17. Synthesis and photochromic properties of dithienylethenes containing new heterocyclic bridging fragments, **9**, 1731

1,2-Dithienylethenes

Photochromic dihetarylethenes. 17. Synthesis and photochromic properties of dithienylethenes containing new heterocyclic bridging fragments, **9**, 1731

4,5-Dithienylimidazol-2-ones

Photochromic dihetarylethenes. 17. Synthesis and photochromic properties of dithienylethenes containing new heterocyclic bridging fragments, **9**, 1731

4,5-Dithienyl-1,3-oxazol-2-ones

Photochromic dihetarylethenes. 17. Synthesis and photochromic properties of dithienylethenes containing new heterocyclic bridging fragments, **9**, 1731

***closo*-Dodecaborate anion**

Derivatives of the *closo*-dodecaborate anion and their application in medicine (review), **8**, 1362

Dodecacarbonyltriruthenium

Selected properties of bi- and trinuclear complexes prepared by the reactions of Ru₃(CO)₁₂ with β-substituted oxadienes, **9**, 1754

Double bond

E-Z-Isomerization of 2-methylenethiazolidin-4-ones, **7**, 1292

Drugs

Exogenous donors of nitric oxide (a chemical aspect) (review), **8**, 1375

Nitric oxide synthase inhibitors: biology and chemistry (review), **11**, 1973

Duplex

Oligoribonucleotides containing an aminoalkyl group at the N(4) atom of cytosine as precursors of new reagents for site-specific modifications of biopolymers, **7**, 1194

Dysprosium compounds

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Specific chemical behavior of Nd^{II} and Dy^{II} iodides in reactions with aromatic compounds, **10**, 1909

E**Ecdysteroids**

Specific features of resonance electron capture mass spectra of ecdysteroid molecules, **2**, 306

New method for trimethylsilylation of hydroxy-containing compounds. Synthesis of persilylated ecdysteroids and carbohydrates, **10**, 1937

Method for mild trimethylsilylation of the 14α-hydroxy group in ecdysteroids, **10**, 1963

Efficiency of capillary columns

Modification of the polytrimethylsilylpropine adsorption layer in open capillary columns, **4**, 625

Elatidal

Study of alkaloids of the Siberian and Altai flora. 7. Synthesis of 18-amino-18-deoxy derivatives of elatidine, **3**, 531

Study of alkaloids of the Siberian and Altai flora. 8. Crystal and molecular structure of elatidal methylimine hydrate, **10**, 1965

Study of alkaloids of the Siberian and Altai flora. 9. Synthesis of amino derivatives of elatidine, **12**, 2290

Elatidine

Study of alkaloids of the Siberian and Altai flora. 7. Synthesis of 18-amino-18-deoxy derivatives of elatidine, **3**, 531

Study of alkaloids of the Siberian and Altai flora. 9. Synthesis of amino derivatives of elatidine, **12**, 2290

Electric conductivity

Sulfurization of polymers. 5. Poly(6-methyl-5-sulfanylthieno[2,3-*b*]pyridine-4-thione), poly(thieno[2,3-*b*]azepine-4,5(6*H*)-dithione), and related structures from poly(2-methyl-5-vinylpyridine) and elemental sulfur, **2**, 282

Electric discharge

Crystalline carbon nitrides: thin films and bulk samples, **9**, 1633

Electrocatalysis

Electrocatalytic CO₂ reduction in methanol catalyzed by mono-, di-, and electropolymerized phthalocyanine complexes, **5**, 805

Electrochemical activation

Electrochemical arylation of cobalt and nickel chelates with diphenyliodonium salts, **1**, 85

Electrochemical activity

Sulfurization of polymers. 5. Poly(6-methyl-5-sulfanylthieno[2,3-*b*]pyridine-4-thione), poly(thieno[2,3-*b*]azepine-4,5(6*H*)-dithione), and related structures from poly(2-methyl-5-vinylpyridine) and elemental sulfur, **2**, 282

Electrochemical catalysis

Electrocatalytic reactions involving the Ni^{II}—Zn^{II}—2,2'-bipyridine system, **2**, 269

Electrochemical oxidation

Retro-Bingel reaction in the electrochemical reduction of bis(dialkoxyposphoryl)methanofullerenes, **1**, 72

Electrochemical reduction and oxidation of fulleropyrrolidines and the ESR spectra of paramagnetic intermediates, **2**, 263

Stereoselective electrochemical transformation of 4-substituted cyclohexanones into *cis*-5-substituted 2,2-dimethoxycyclohexanols, **8**, 1478

Electrochemical oxidation of 2*H*-imidazole *N*-oxides, **11**, 2065

Electrochemical reduction

Retro-Bingel reaction in the electrochemical reduction of bis(dialkoxyposphoryl)methanofullerenes, **1**, 72

Electrochemical reduction of 5-halo-5-nitro-1,3-dioxanes and 2-halo-2-nitro-1,3-propanediols, **1**, 78

Electrochemical reduction and oxidation of fulleropyrrolidines and the ESR spectra of paramagnetic intermediates, **2**, 263

Electrocatalytic reactions involving the Ni^{II}-Zn^{II}-2,2'-bipyridine system, **2**, 269

The reactivity of 2,2'-bipyridine complexes in the electrochemical reduction of organohalides, **5**, 796

ESR parameters and transformations of the products of reduction of methanofullerenes, **5**, 813

Electrochemistry

Electrochemical reduction and oxidation of fulleropyrrolidines and the ESR spectra of paramagnetic intermediates, **2**, 263

Redox properties of N₂S₂-type nickel complexes with aromatic ligands. Crystal structure of [1,2-C₆H₄(SMe)NH₂]₂Ni²⁺(MeCN)₂ • 2ClO₄⁻, **3**, 467

Electroconductive polymer films obtained by plasma polymerization of 1-amino-9,10-anthraquinone, **3**, 554

Metallation of fullerenes: electrochemical synthesis and voltammetric study of heterometallic C₆₀ and C₇₀ complexes, **8**, 1588

Electrocatalytic reduction of organic halides with cobalt bipyridine complexes, **9**, 1702

A new method for the generation of stable phenoxyl radicals by the reaction of [(Me₃Si)₂N]₂E (E = Ge, Sn) with sterically hindered phenols, **10**, 1961

The influence of the sacrificial anode nature on the mechanism of electrochemical arylation and alkylation of white phosphorus, **11**, 2059

Electroconductivity

Investigation of chemisorption properties of the PbO surface, **9**, 1680

Sulfurization of polymers. 6. Poly(vinylene polysulfide), poly(thienothiophene), and related structures from polyacetylene and elemental sulfur, **9**, 1709

ESR study of mechanism of polyaniline conductivity, **12**, 2216

Electrolysis

N-Dimethoxyphenylation of highly basic pyrazoles during undivided electrolysis, **6**, 998

Electrooxidative transformation of unsubstituted and substituted nitro hydrocarbons into carbonyl compounds, **8**, 1460

Stereoselective electrochemical transformation of 4-substituted cyclohexanones into *cis*-5-substituted 2,2-dimethoxycyclohexanols, **8**, 1478

N-Arylation of azoles with low basicity by 1,4-dimethoxybenzene during undivided electrolysis, **8**, 1523

Electron density

Activated bis- and tetrafluoroaromatic compounds containing bis-phenylquinoxaline fragments, **6**, 1039

Chemical bonding in isolated molecules and crystals of zwitterionic pentacoordinate silicon chelates, **8**, 1423

Nature of Fe-CH₂ bonds in ferrocenylmethyl and ferrocenyl dimethyl cations, **9**, 1651

¹H Electron nuclear double resonance

Electron spin and electron nuclear double resonances of the stable 1-(4-nitrophenyl)-3-phenyl-1,4-dihydro-1,2,4-benzotriazin-4-yl free radical, **10**, 1796

Electron scanning microscopy

Electroconductive polymer films obtained by plasma polymerization of 1-amino-9,10-anthraquinone, **3**, 554

Electron transfer

Oxidative coupling of the azide ion with anions of primary nitroalkanes. Synthesis of 1-azido-1-nitroalkanes, **8**, 1466

Electronic absorption spectra

Selective reduction of fullerene C₆₀ with metals in neutral and alkaline media. Interaction of C₆₀ with KOH, **11**, 2003

Synthesis, acid-base and spectral properties of 3-(benzimidazol-2-yl)-2-phenylimino-2*H*-chromenes, **11**, 2070

Synthesis and study of organometallic complexes of octaphenyltetraazaporphyrinatoindium(III), **12**, 2261

Luminescence of lanthanides in complexes with chromophoric crown ethers, **12**, 2303

Electronic excitation

Electronic excitation energy transfer in solid solution of 7-diethylamino-3,4-benzophenoxazine-2-one (Nile Red dye) in bis[*N*-2-(oxybenzylidene)-4-*tert*-butylaniline]zinc, **1**, 67

Electronic structure

New unsymmetrical difluoroaromatic compounds and estimation of their reactivities in nucleophilic substitution, **1**, 117

Effect of local strain on the reactivity of carbon nanotubes, **5**, 764

Luminescence of salts and copolymers containing the (Mo^{VI}Cl₈)⁴⁺ cluster, **6**, 994

Activated bis- and tetrafluoroaromatic compounds containing bis-phenylquinoxaline fragments, **6**, 1039

Chemical bonding in isolated molecules and crystals of zwitterionic pentacoordinate silicon chelates, **8**, 1423

Quantum-chemical study of supramolecular complexes (DPyEt)_{*n*}(AgNO₃)_{*m*}, **12**, 2145

Electrophilic substitution

Replacement of an oxygen atom by chlorine atoms in the reaction of pentafluorobenzaldehyde with CCl₃-substituted compounds in the presence of AlCl₃, **3**, 544

Nitration and bromination of benzo-1,2,3,4-tetrazine 1,3-dioxides, **10**, 1841

Protonation of ferrocene, ruthenocene, and osmocene: a density functional study, **10**, 1900

Electrophoresis

Cleavage of a DNA fragment by a binary oligonucleotide reagent, **7**, 1171

Directed cleavage of RNA within an imperfect complementary complex by oligonucleotide—bleomycin A₅ conjugates, **7**, 1187

Sensitized photomodification of oligonucleotide-binding proteins displayed on the eucaryotic cell surface, **7**, 1198

Electropolymerization

Electrocatalytic CO₂ reduction in methanol catalyzed by mono-, di-, and electropolymerized phthalocyanine complexes, **5**, 805

Electrosorption

Effect of acidity of the medium and polarization of the surface on albumin adsorption by carbon fibers, **6**, 1006

Electrostatic interaction

Synthesis and the crystal structure of [Hg₆As₄](InCl₆)Cl: influence of covalent and electrostatic factors on the supramolecular structure, **3**, 444

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Electrosynthesis

Electrochemical arylation of cobalt and nickel chelates with diphenyliodonium salts, **1**, 85

N-Dimethoxyphenylation of highly basic pyrazoles during undivided electrolysis, **6**, 998

N-Arylation of azoles with low basicity by 1,4-dimethoxybenzene during undivided electrolysis, **8**, 1523

Metallation of fullerenes: electrochemical synthesis and voltammetric study of heterometallic C₆₀ and C₇₀ complexes, **8**, 1588

Elemental sulfur

Sulfurization of polymers. 5. Poly(6-methyl-5-sulfanyl-thieno[2,3-*b*]pyridine-4-thione), poly(thieno[2,3-*b*]azepine-4,5(6*H*)-dithione), and related structures from poly(2-methyl-5-vinylpyridine) and elemental sulfur, **2**, 282

Sulfurization of polymers. 6. Poly(vinylene polysulfide), poly(thienothiophene), and related structures from polyacetylene and elemental sulfur, **9**, 1709

Elimination

Retro-Bingel reaction in the electrochemical reduction of bis(dialkoxyphosphoryl)methanofullerenes, **1**, 72

Electrochemical reduction of 5-halo-5-nitro-1,3-dioxanes and 2-halo-2-nitro-1,3-propanediols, **1**, 78

Synthesis of thieno[3,4-*d*]pyrimidines by the reactions of 3-amino-4-carbamoylthiophene derivatives with 1,3-dicarbonyl compounds, **10**, 1879

Enamines

Reactions of dibenzylphosphine oxide with α,β -unsaturated nitriles: synthesis of aminophospholene oxides, **4**, 671

Application of the Thorpe—Ziegler reaction for the synthesis of functionalized thiophenes, thienopyrimidines, and thienotriazines, **5**, 854

Reactions of nitrogenous derivatives of substituted salicylaldehydes with cyclic ketones and enamines, **7**, 1262

α -Oxolactam enamines as new synthons in the Nenitzescu reaction, **10**, 1886

Enantiomers

Diastereoselective synthesis of substituted 1,3,6-triazabicyclo[3.1.0]hexanes, **8**, 1497

Enantioselectivity

Enzymatic dissymmetrization of *meso*-2,3-di-methylbutane-1,4-diol and its diacetate. Synthesis of scalemic (–)-lasiol, **3**, 481

First quinine-based aryl phosphite: synthesis and application in the Pd-catalyzed enantioselective rearrangement of allylic thiocarbamate, **9**, 1748

Enantiotopomerization

First example of the formation of bipolar spiro σ -complexes from 6-bromo-5,7-dinitrobenzo[*e*]-1,2,3,4-tetrazine 1,3-di-*N*-oxide, **4**, 668

Endometallofullerenes

ESR spectra of products of oxidation of endometallofullerenes M@C₈₂ (M = Y, La, Ce, Gd), **6**, 1009

Enehydrazino ketones

Reactions of cyclic enehydrazino ketones with arylidene-malononitriles. Synthesis of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1862

Synthesis of 12-aryl-1-oxo-1,2,3,4,5,12-hexahydro-indolo[2,1-*b*]quinazoline-6-carbonitriles by recyclization of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1869

Energy of cycle strain

Reactions of mono- and bimolecular hydrogen transfer in alkyl radicals: analysis using the parabolic model and density functional calculations, **4**, 602

Influence of the size of the formed cycle on the reactivity of free radicals in cyclization reactions, **6**, 949

Energy transfer

Electronic excitation energy transfer in solid solution of 7-diethylamino-3,4-benzophenoxazine-2-one (Nile Red dye) in bis[*N*-2-(oxybenzylidene)-4-*tert*-butylaniline]zinc, **1**, 67

On the problem of directed signal transmission and energy transfer in molecular systems, **2**, 222

Luminescence of salts and copolymers containing the (Mo^{II}Cl₈)⁴⁺ cluster, **6**, 994

Luminescence of lanthanides in complexes with chromophoric crown ethers, **12**, 2303

Enolates

Synthesis of (7-polyfluoroalkyl)pyrazolo[1,5-*a*]pyrimidines based on lithium fluorine-containing β -diketonates, **2**, 332

Reactions of (1*S*,3*S*)-3-acetoxymethyl-1-(2-acetoxyvinyl)-2,2-dimethylcyclopropane with haloforms under conditions of phase-transfer catalysis, **9**, 1765

Enthalpy of formation

Estimation of dissociation energies of C—H bonds in oxygen-containing compounds from kinetic data for radical abstraction reactions, **9**, 1641

Quantum-chemical study of supramolecular complexes (DPyEt)_n(AgNO₃)_m, **12**, 2145

Enthalpy of reaction

Reactions of mono- and bimolecular hydrogen transfer in alkyl radicals: analysis using the parabolic model and density functional calculations, **4**, 602

Influence of the size of the formed cycle on the reactivity of free radicals in cyclization reactions, **6**, 949

Enynes

Reactions of the Ru₃(CO)₁₀(μ-Ph₂PCH₂PPh₂) cluster with enynes RCH=CHC≡CR (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

Enzymes

Design and synthesis of artificial ribonucleases based on 1,4-diazabicyclo[2.2.2]octane and imidazole (review), **7**, 1100

Exogenous donors of nitric oxide (a chemical aspect) (review), **8**, 1375

Synthesis and structures of nickel(II) complexes with thioether-containing β-aminovinyl ketones, **10**, 1924

Epimerization

Synthesis of indole-containing analogs of (1*R*)-*cis*-chrysanthemic acid and *N*-substituted (1*R*)-*cis*-chrysanthemylamines, **7**, 1308

Epoxides

Ring opening in epichlorohydrin and β-methylepichlorohydrin under the action of the [PtCl₄]²⁻ anion in aqueous solutions, **2**, 354

Erbium compounds

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

ESR spectroscopy

Retro-Bingel reaction in the electrochemical reduction of bis(dialkoxyphosphoryl)methanofullerenes, **1**, 72

Electrochemical reduction of 5-halo-5-nitro-1,3-dioxanes and 2-halo-2-nitro-1,3-propanediols, **1**, 78

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Synthesis and redox properties of bis-ferrocenylethynyl derivatives of bis(dimethylphosphinoethane)manganese, **1**, 170

Addition of Me₂[•]CCN, Me₂[•]CPh, and CCl₃CH₂[•]CHPh radicals to fullerene C₆₀, **2**, 240

Electrochemical reduction and oxidation of fulleropyrrolidines and the ESR spectra of paramagnetic intermediates, **2**, 263

Ammonia and carbon dioxide permeability through perfluorosulfonic membranes, **2**, 275

Electroconductive polymer films obtained by plasma polymerization of 1-amino-9,10-anthraquinone, **3**, 554

Products of reaction of fullerene C₆₀ with fuming sulfuric acid studied by IR and ESR spectroscopy, **4**, 628

ESR study of weak exchange interactions in binuclear copper(II) complexes with acyldihydrazones of fluorinated β-diketones, **4**, 632

ESR study of the thermal decomposition of di-*tert*-butoxy-*tert*-butyl alumotrioxide formed in the reaction of tri-*tert*-butoxyaluminum with *tert*-butyl hydroperoxide, **4**, 638

ESR parameters and transformations of the products of reduction of methanofullerenes, **5**, 813

ESR spectra of products of oxidation of endometallofullerenes M@C₈₂ (M = Y, La, Ce, Gd), **6**, 1009

DNA modification by *cis*-diaminoplatinum(II) complexes with aminonitroxide ligands, **6**, 1058

Electron spin and electron nuclear double resonances of the stable 1-(4-nitrophenyl)-3-phenyl-1,4-dihydro-1,2,4-benzotriazin-4-yl free radical, **10**, 1796

A new method for the generation of stable phenoxyl radicals by the reaction of [(Me₃Si)₂N]₂E (E = Ge, Sn) with sterically hindered phenols, **10**, 1961

Selective reduction of fullerene C₆₀ with metals in neutral and alkaline media. Interaction of C₆₀ with KOH, **11**, 2003

Spin exchange between transition metal complexes and nitroxyl radicals in nonaqueous media, **12**, 2207

ESR study of mechanism of polyaniline conductivity, **12**, 2216

ESR study of weak exchange interactions in binuclear copper(II) complexes with 2-hydroxyacetophenone acyl-dihydrazones, **12**, 2268

Synthesis and study of binuclear vanadyl complexes with acyldihydrazones of salicylaldehyde and dicarboxylic acids, **12**, 2273

Esters

Transetherification of difurazanyl ethers as a route to unsymmetrical derivatives of difurazanyl ether, **4**, 659

Estimation of dissociation energies of C—H bonds in oxygen-containing compounds from kinetic data for radical abstraction reactions, **9**, 1641

Generation of alkyl hypochlorites in oxidation of alcohols with carbon tetrachloride catalyzed by vanadium and manganese compounds, **11**, 2074

Ethane

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Ethanofullerenes

Reactions of carbanions of bis(dialkoxyphosphoryl)bromomethane with fullerenes C₆₀ and C₇₀, **2**, 337

Ethanol

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Ethoxylation

New approaches to syntheses of diethers and haloethers from cyclopentadiene, **4**, 616

Ethyl acetate

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Ethyl acetoacetate

Synthesis of 3-acetyl-4-amino-6-arylpyran-2-ones and ethyl 7-aryl-4,5(1*H*,5*H*)-dioxopyrano[4,3-*b*]pyridine-2-carboxylates, **3**, 503

Ethyl 7-aryl-4,5(1*H*,5*H*)-dioxopyrano[4,3-*b*]pyridine-2-carboxylates

Synthesis of 3-acetyl-4-amino-6-arylpyran-2-ones and ethyl 7-aryl-4,5(1*H*,5*H*)-dioxopyrano[4,3-*b*]pyridine-2-carboxylates, **3**, 503

(*S*)-Ethyl lactate

New synthesis of serricornin, the sex pheromone of the cigarette beetle (*Lasioderma serricorne*), **8**, 1600

Ethyl methyl ketone

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Ethyl oxalate

Simple synthesis of alkyl 5-oxo-5,8-dihydropyrido[2,3-*d*]pyrimidine-7-carboxylates from 5-acetyl-4-aminopyrimidines, **10**, 1875

Ethyl polyfluorocarboxylates

Synthesis of 1-(2-polyfluoroacylamino-phenyl)-3-polyfluoroalkylpropane-1,3-diones and 2-polyfluoroalkyl-4-quinolones, **11**, 2109

Ethylbenzene

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

Free radical formation during ethylbenzene oxidation catalyzed by cetyltrimethylammonium bromide, **3**, 449

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Ethylene

Copolymerization of acetylene with ethylene in the presence of dibenzenetitanium(0), **5**, 817

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Cationic Pd^{II}, Ni^{II}, and Ru^{II} complexes in the synthesis of alternating copolymers of CO with vinyl monomers (review), **9**, 1605

Ethylene glycol

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

Ethylenediamine

Unexpected synthesis of 6-amino-2,3-dihydro-4-pyrone-3-spirocyclohexane, **1**, 181

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

Ethylenedinitramine

Spectra and structure of mercury derivatives of primary nitramines, **6**, 1071

Ethynylferrocene

Synthesis and redox properties of bis-ferrocenylethynyl derivatives of bis(dimethylphosphinoethane)manganese, **1**, 170

Eucaryotic cells

Investigation of surface oligonucleotide-binding proteins of eucaryotic cells by affinity modification with reactive oligonucleotide derivatives, **7**, 1204

EXAFS spectroscopy

Synthesis and structures of nickel(II) complexes with thioether-containing β -aminovinyl ketones, **10**, 1924

Excited states of molecules

Excited-state intramolecular proton transfer in 2,4,5-triarylimidazole molecules, **11**, 2050

Exoemission

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

F**Fatigue resistance**

Photochromic dihetarylethenes. 17. Synthesis and photochromic properties of dithienylethenes containing new heterocyclic bridging fragments, **9**, 1731

X-Faujasite

Mechanism of reaction of *n*-butane with but-2-enes in the presence of LaCaX faujasites, **5**, 783

Femtosecond dynamics

Femtosecond relaxation of photoexcited states in nanosized semiconductor particles of iron oxides, **3**, 457

Femtosecond dynamics of relaxation of photoexcited *meso*-tetraferrocenylporphyrin in the nonprotonated and diprotonated forms (Fc₄PH₂ and Fc₄PH₄²⁺), **6**, 986

Femtosecond spectroscopy

Femtosecond relaxation of photoexcited states in nanosized semiconductor particles of iron oxides, **3**, 457

Fenchone

Binding of cyclic compounds by starch cryotextures from aqueous solutions, **9**, 1689

Ferracarborane

Reaction of ruthenacarborane with trifluoroacetoxymercuro-ferracarborane, **3**, 517

Ferrihydrite

Dynamics of probe in network of polymeric cation exchanger studied by Fourier transform analysis of Mössbauer spectra, **12**, 2196

Ferritine

Femtosecond relaxation of photoexcited states in nanosized semiconductor particles of iron oxides, **3**, 457

Ferrocenes

New approach to the synthesis of 2-carbamoylbenzothiazoles, **1**, 144

1-Thiocarbamoyl(ferrocenyl)-4,5-dihydropyrazoles, **2**, 342

Transformations of spirocycloclimers of 1,3-bis(ferrocenylmethylidene)-2-methylidenecycloalkanes in acid medium, **4**, 691

Simulation of the molecular and electronic structure of C₆₀ fullerene π -complex with twelve half-sandwich species FeC₅H₅, **5**, 770

Reactions of the Ru₃(CO)₁₀(μ -Ph₂PCH₂PPh₂) cluster with enynes RCH=CHC \equiv CR (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

PCP pincer ligands based on metallocenes. Crystal structure of the rhodium complex *cis*-RhCl₂(CO)[{2,5-(Prⁱ₂PCH₂)₂C₅H₂}Fe(C₅H₅)], **6**, 1077

Protonation of ferrocene, ruthenocene, and osmocene: a density functional study, **10**, 1900

Ferrocenylacetylenes

Reactions of the Ru₃(CO)₁₀(μ -Ph₂PCH₂PPh₂) cluster with enynes RCH=CHC \equiv CR (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

Ferrocenylalkylation

Synthesis and properties of ferrocenylalkyl derivatives of indazole, **10**, 1894

Ferrocenylenedimethyl cation

Nature of Fe—CH₂ bonds in ferrocenylmethyl and ferrocenylenedimethyl cations, **9**, 1651

Ferrocenylmethyl cation

Nature of Fe—CH₂ bonds in ferrocenylmethyl and ferrocenylenedimethyl cations, **9**, 1651

Ferrocenylpolycycloalkanes

Transformations of spirocycloalkanes of 1,3-bis(ferrocenylmethylidene)-2-methylidencycloalkanes in acid medium, **4**, 691

Ferrous compounds

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

Single-, double-, and triple-charged cations based on iron-subgroup decamethylmetallocenes (review), **9**, 1616

Dynamics of probe in network of polymeric cation exchanger studied by Fourier transform analysis of Mössbauer spectra, **12**, 2196

Filamentous carbon

Adsorption of H₃PW₁₂O₄₀ by porous carbon materials, **2**, 243

Fischer synthesis

Synthesis of indole-containing analogs of (1*R*)-*cis*-chrysanthemic acid and *N*-substituted (1*R*)-*cis*-chrysanthemylamines, **7**, 1308

N- and *O*-Alkylation of 3-indolylcyclopropylacetic acid derivatives, **10**, 1829

Fischer—Tropsch synthesis

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Flash photolysis

Kinetics, mechanism, and products of the reaction of diphenylcarbonyl oxide with carboxylic acids, **4**, 608

Fluorescence

Heterocyclic analogs of pleiadiene. 69. Synthesis and oxidative hydroxylation of 1-alkyl-1,3-diazapyrenium salts, **1**, 139

Simulation of optical response to complex formation of crown-containing 2-styrylbenzothiazoles with alkaline-earth metals, **5**, 789

Femtosecond dynamics of relaxation of photoexcited *meso*-tetraferrocenylporphyrin in the nonprotonated and diprotonated forms (Fc₄PH₂ and Fc₄PH₄²⁺), **6**, 986

Hybridization of antisense oligonucleotides with yeast tRNA^{Phc}: factors determining the efficiency of interaction, **7**, 1156

Crystal structure and fluorescence properties of *p*-nitrobenzoylanisoylmethane and its complex with boron difluoride, **9**, 1715

Excited-state intramolecular proton transfer in 2,4,5-triarylimidazole molecules, **11**, 2050

Fluorinated compounds

Crystal and molecular structures of fluorinated derivatives of C₆₀ fullerene, **5**, 754

Fluorine-containing compounds

New unsymmetrical difluoroaromatic compounds and estimation of their reactivities in nucleophilic substitution, **1**, 117

Synthesis of (7-polyfluoroalkyl)pyrazolo[1,5-*a*]pyrimidines based on lithium fluorine-containing β -diketonates, **2**, 332

Reactions of α -fluorine-containing β -functionalized vinyl sulfides with *N*-nucleophiles, **6**, 1020

Synthesis of substituted thiophenes based on fluorine-containing β -functionalized vinyl sulfides, **6**, 1028

2-Polyfluoroalkylchromones. 11. Synthesis and structures of 5-hydroxy-3-(2-hydroxyaryl)-5-polyfluoroalkyl- Δ^2 -pyrazolines and 3(5)-(2-hydroxyaryl)-5(3)-polyfluoroalkylpyrazoles, **7**, 1280

Synthesis of 4-acyl(alkoxycarbonyl)-5-fluoroalkyl-3,5-dihydroxyfuran-2(5*H*)-ones, **9**, 1727

Fluorinated cyclohexadienones as versatile synthons for preparation of organofluorine compounds (review), **10**, 1775

(7-Fluoroalkyl)pyrazolo[1,5-*a*]pyrimidines

Synthesis of (7-polyfluoroalkyl)pyrazolo[1,5-*a*]pyrimidines based on lithium fluorine-containing β -diketonates, **2**, 332

Fluoroionophores

Simulation of optical response to complex formation of crown-containing 2-styrylbenzothiazoles with alkaline-earth metals, **5**, 789

6-Fluoro-7-(isoxazolidin-2-yl)-4-oxo-1,4-dihydroquinolones

Three-component cyclization of hydroxylamino-substituted quinoline with reactive methylene compounds and formaldehyde: new method for the synthesis of 7-(isoxazolidin-2-yl)-6-fluoroquinolones, **11**, 2106

Fluoroquinolones

1,2,4-Triazino[5,6,1-*i,j*]quinolines: a new type of tricyclic analogs of fluoroquinolones, **4**, 663

Three-component cyclization of hydroxylamino-substituted quinoline with reactive methylene compounds and formaldehyde: new method for the synthesis of 7-(isoxazolidin-2-yl)-6-fluoroquinolones, **11**, 2106

Force constants

Reactions of mono- and bimolecular hydrogen transfer in alkyl radicals: analysis using the parabolic model and density functional calculations, **4**, 602

Force fields

Structure and vibrational spectra of mononitroalkanes, **6**, 940

The Mills—Nixon and anomeric effects in 2,3-dihydro-1*H*-1,3,2-benzodiazaphospholes: a gas-phase electron diffraction study of C₆H₄(NMe)₂PCl using quantum-chemical data and "a priori" force field, **11**, 2014

Formaldehyde

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Three-component cyclization of hydroxylamino-substituted quinoline with reactive methylene compounds and formaldehyde: new method for the synthesis of 7-(isoxazolidin-2-yl)-6-fluoroquinolones, **11**, 2106

The role of pressure in partial oxidation of methane, **12**, 2170

Formazanes

Photochemistry of benzothiazolylformazanes in solutions, **5**, 839

Formic acid

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Hydrogenation of CO₂ to formic acid in the presence of the Wilkinson complex, **12**, 2165

8'-Formyl-3,6'-dimethyl(4-oxo-3,4-dihydrospiro-2*H*-1,3-benzoxazine-2,2'-[2*H*]chromene)

Photo- and thermochromic spiropyran. 21. 8'-Formyl-3,6'-dimethyl-4-oxospiro(3,4-dihydro-2*H*-1,3-benzoxazine-2,2'-[2*H*]chromene) possessing photochromic properties in the solid phase, **3**, 462

Forster cycle

Synthesis, acid-base and spectral properties of 3-(benzimidazol-2-yl)-2-phenylimino-2*H*-chromenes, **11**, 2070

Fourier transform

Dynamics of probe in network of polymeric cation exchanger studied by Fourier transform analysis of Mössbauer spectra, **12**, 2196

Fragrances

Stereospecific 1,4-*cis*-hydrogenation of conjugated dienes, dienyne, and dienediynes catalyzed by chromium carbonyl complexes in stereocontrolled syntheses of physiologically active olefins (review), **8**, 1341

Free energy of complexation

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Free radicals

Addition of Me₂[•]CCN, Me₂[•]CPh, and CCl₃CH₂[•]CHPh radicals to fullerene C₆₀, **2**, 240

Free radical formation during ethylbenzene oxidation catalyzed by cetyltrimethylammonium bromide, **3**, 449

Influence of the size of the formed cycle on the reactivity of free radicals in cyclization reactions, **6**, 949

Catalytic systems based on platinum and heteropoly compounds for oxidation of hydrocarbons with a dioxygen—dihydrogen gaseous mixture, **6**, 975

Electron spin and electron nuclear double resonances of the stable 1-(4-nitrophenyl)-3-phenyl-1,4-dihydro-1,2,4-benzotriazin-4-yl free radical, **10**, 1796

Friedel—Crafts reaction

Heterocyclic analogs of pleiadene. 70. Synthesis of 6-hydroxy-1,3-diazapyrenes, **5**, 860

Photochromic dihetarylethenes. 13. Optimization of conditions for the acylation of 2,5-dimethylthiophene with squaric acid dichloride, **8**, 1510

Photochromic dihetarylethenes. 14. Synthesis of symmetrical and unsymmetrical dihetarylcyclobutene-1,2-diones, **8**, 1515

Friedländer self-condensation

Simple synthesis of alkyl 5-oxo-5,8-dihydropyrido[2,3-*d*]pyrimidine-7-carboxylates from 5-acetyl-4-aminopyrimidines, **10**, 1875

Fullerene-containing carbon black

Influence of conditions for preparation of fullerene-containing carbon black on its microwave properties and yield of fullerenes, **6**, 936

Fullerenes

Retro-Bingel reaction in the electrochemical reduction of bis(dialkoxyphosphoryl)methanofullerenes, **1**, 72

Thermal decomposition of deuterofullerite, **1**, 96

On the possibility of existence of η⁴-π-complexes of corannulene (C₂₀H₁₀) and C₆₀ fullerene derivatives, **2**, 230

Addition of Me₂[•]CCN, Me₂[•]CPh, and CCl₃CH₂[•]CHPh radicals to fullerene C₆₀, **2**, 240

Electrochemical reduction and oxidation of fulleropyrrolidines and the ESR spectra of paramagnetic intermediates, **2**, 263

Reactions of carbanions of bis(dialkoxyphosphoryl)bromomethane with fullerenes C₆₀ and C₇₀, **2**, 337

Cycloaddition to buckminsterfullerene C₆₀: advancements and future prospects (review), **3**, 367

Conformational analysis and regioisomerism of mono- and diadducts of *O,O*-diisopropyl isoxazolinophosphonate with C₆₀, **4**, 593

Products of reaction of fullerene C₆₀ with fuming sulfuric acid studied by IR and ESR spectroscopy, **4**, 628

Crystal and molecular structures of fluorinated derivatives of C₆₀ fullerene, **5**, 754

Simulation of the molecular and electronic structure of C₆₀ fullerene π-complex with twelve half-sandwich species FeC₅H₅, **5**, 770

ESR parameters and transformations of the products of reduction of methanofullerenes, **5**, 813

Influence of conditions for preparation of fullerene-containing carbon black on its microwave properties and yield of fullerenes, **6**, 936

Synthesis of a single isomer of the bis-adduct of isocyanurato-substituted azide with [60]fullerene, **8**, 1491

Metallation of fullerenes: electrochemical synthesis and voltammetric study of heterometallic C₆₀ and C₇₀ complexes, **8**, 1588

Synthesis of new functionally substituted fulleropyrrolidines, **9**, 1723

Selective reduction of fullerene C_{60} with metals in neutral and alkaline media. Interaction of C_{60} with KOH, **11**, 2003

Fulleropyrrolidines

Electrochemical reduction and oxidation of fulleropyrrolidines and the ESR spectra of paramagnetic intermediates, **2**, 263

Synthesis of new functionally substituted fulleropyrrolidines, **9**, 1723

Fulleroids

Cycloaddition to buckminsterfullerene C_{60} : advancements and future prospects (review), **3**, 367

Fuming sulfuric acid

Products of reaction of fullerene C_{60} with fuming sulfuric acid studied by IR and ESR spectroscopy, **4**, 628

Functionalization

Metallation of poly(1-trimethylsilyl-1-prop-1-yne) and poly(vinyltrimethylsilane) with superbases, **12**, 2248

Furandione

Chemistry of acyl(imido)ketenes. 7. Synthesis and thermolysis of 5-aryl-4-quinoxaliny-2,3-dihydrofuran-2,3-diones, **5**, 850

Furan-2-ones

Synthesis of 4-acyl(alkoxycarbonyl)-5-fluoroalkyl-3,5-dihydroxyfuran-2(5*H*)-ones, **9**, 1727

Furazans

1H , ^{13}C , and ^{14}N NMR study of 3-methylfurazans with nitrogen-containing substituents at position 4, **2**, 290

Transetherification of difurazanyl ethers as a route to unsymmetrical derivatives of difurazanyl ether, **4**, 659

Nucleophilic substitution in the furazan series. Reactions of nitrofurazans with ammonia, **8**, 1533

Furfuryloxy dioxo dienamine

Reactions of secondary amines with derivatives of 5-(2-methyl-3-furyl)cyclopent-2-en-1-one, **6**, 1068

Furoxanes

Synthesis of carbamoylformhydroxymoyl chlorides and study of their reactivities, **8**, 1504

5-Furylcyclopentenones

Reactions of secondary amines with derivatives of 5-(2-methyl-3-furyl)cyclopent-2-en-1-one, **6**, 1068

G

D-Galactopyranose

New method for trimethylsilylation of hydroxy-containing compounds. Synthesis of persilylated ecdysteroids and carbohydrates, **10**, 1937

Gas adsorption capillary chromatography

Modification of the polytrimethylsilylpropine adsorption layer in open capillary columns, **4**, 625

Gas chromatographic and IR spectroscopic characteristics of tri- and tetramethylcyclohexenyl butenyl ketones, **9**, 1684

Binding of cyclic compounds by starch cryotextures from aqueous solutions, **9**, 1689

Gas permeability

Ammonia and carbon dioxide permeability through perfluorosulfonic membranes, **2**, 275

Gas-phase electron diffraction

The Mills—Nixon and anomeric effects in 2,3-dihydro-1*H*-1,3,2-benzodiazaphospholes: a gas-phase electron diffraction study of $C_6H_4(NMe)_2PCl$ using quantum-chemical data and "a priori" force field, **11**, 2014

Gene therapy

A convenient method for the synthesis of cationic glycerolipids with potential biological activity, **10**, 1931

Genes

Biological efficacy of antisense oligonucleotides complementary to overlapping regions of the mRNA target (review), **7**, 1118

Structure-functional organization of mouse aquaporin 4 gene, **7**, 1122

A fast genetic algorithm for RNA secondary structure analysis, **7**, 1135

RNA targeting at any chosen site of interest by the novel RNA-protein hybrid ribozyme and the gene discovery based on the hybrid ribozyme libraries, **7**, 1166

10-23 DNA enzymes for targeting *MDR1* mRNA, **7**, 1190

Chimeric oligonucleotides based on 2'-*O*-modified oligoribonucleotides with the terminal 3'-3' internucleotide linkage as potential inhibitors of *MDR1* gene expression, **7**, 1217

Genetic algorithm

A fast genetic algorithm for RNA secondary structure analysis, **7**, 1135

Germanium compounds

New tungsten carbyne complexes containing the triphenylgermyl and triphenylstannyl groups at the carbyne carbon atom $(Bu^tO)_3W\equiv C-EPh_3$ ($E = Ge, Sn$), **3**, 552

Germenes

New heteroorganic betaines containing the $(^+)E^{15}-C-E^{14}-X^{(-)}$ and $(^+)E^{15}-C-E^{14(-)}$ structural fragments ($E^{15} = P, As$; $E^{14} = Si, Ge, Sn$; $X = C, S, O, NR$) (review), **5**, 721

Germylenes

New heteroorganic betaines containing the $(^+)E^{15}-C-E^{14}-X^{(-)}$ and $(^+)E^{15}-C-E^{14(-)}$ structural fragments ($E^{15} = P, As$; $E^{14} = Si, Ge, Sn$; $X = C, S, O, NR$) (review), **5**, 721

Reactions between germylenes (silylenes) and phosphalkenes: an experimental and theoretical study. Preparation of the first representative of germaphosphacyclopropanes, **8**, 1568

A new method for the generation of stable phenoxy radicals by the reaction of $[(Me_2Si)_2N]_2E$ ($E = Ge, Sn$) with sterically hindered phenols, **10**, 1961

Glass transition temperature

Effect of conformational rigidity on the glass transition and initial decomposition temperatures of polyimides, **5**, 820

GLC-mass-spectrometry

Palladium nitrosoarene complexes in reductive carbonylation of nitroarenes, **12**, 2286

D-Glucopyranose

New method for trimethylsilylation of hydroxy-containing compounds. Synthesis of persilylated ecdysteroids and carbohydrates, **10**, 1937

Glycerol dinitrate

Synthesis and structures of nitroxyalkyl methylphosphonates, **1**, 157

Glycerolipids

A convenient method for the synthesis of cationic glycerolipids with potential biological activity, **10**, 1931

Glycosides

Steroid compounds from the starfish *Lysastrosoma anthosticta* collected in the Sea of Japan, **3**, 535

Conceivably the first example of a phase transition in aqueous solutions of oligosaccharide glycosides. Evidence from variable-temperature ¹H NMR and optical rotation measurements for a solution of allyl lactoside, **7**, 1337

Triterpene glycosides from *Pulsatilla chinensis*, **10**, 1945

Steroid polyols from the Far-Eastern starfish *Henricia sanguinolenta*, **12**, 2295

Glycosyl sulfone

Selective preparation of glycosyl sulfone or glycal by treatment of phenyl thioglycoside of *N*-acetylneuraminic acid with *m*-chloroperbenzoic acid, **4**, 698

Grignard reagents

New method for the synthesis of indenenes, **11**, 2090

Guanylate cyclase

Exogenous donors of nitric oxide (a chemical aspect) (review), **8**, 1375

Nitric oxide synthase inhibitors: biology and chemistry (review), **11**, 1973

H**Halides**

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

New approaches to syntheses of diethers and haloethers from cyclopentadiene, **4**, 616

Electrocatalytic reduction of organic halides with cobalt-bipyridine complexes, **9**, 1702

Haloarylimines

Synthesis of novel linear exo-bidentate bispyridine ligands and their complexes with silver(I) tetrafluoroborate, **10**, 1957

Halogen ethers

New approaches to syntheses of diethers and haloethers from cyclopentadiene, **4**, 616

Halogenation

Halogenation of 2-alkyl-2-azabicycloalkenes as a method for the synthesis of stable aziridinium salts of a new class, **7**, 1254

5-Halo-5-nitro-1,3-dioxanes

Electrochemical reduction of 5-halo-5-nitro-1,3-dioxanes and 2-halo-2-nitro-1,3-propanediols, **1**, 78

5-Halo-5-nitro-1,3-propanediols

Electrochemical reduction of 5-halo-5-nitro-1,3-dioxanes and 2-halo-2-nitro-1,3-propanediols, **1**, 78

Heat conductivity coefficient

Concentration dependences of heat conductivity coefficients of inert gases in narrow pores, **11**, 2026

Heat of vaporization

The use of saturated vapor pressure at standard temperature in correlations of physicochemical properties, **11**, 2008

Heats of adsorption

Absorption of perfluoropropane on the PAC microporous carbon adsorbent, **12**, 2161

Heck—Sonogashira reaction

Synthesis of alkynylbenzo-15-crown-5 ethers, **9**, 1720

n-Heptane

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Hept-1-ene

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Hetarylamine

Synthesis and hydroxydeamination in the series of 6-aryl- and 6-benzoimidazolyl-7-aminoazolo[5,1-*c*]-1,2,4-triazines, **9**, 1737

Heteroaromatic compounds

Solid-phase oxoalkylation of pyridines and quinolines with 1-methylcycloalkanols under the action of lead tetraacetate, **10**, 1812

Heterocycles

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

1-Thiocarbamoyl(ferrocenyl)-4,5-dihydropyrazoles, **2**, 342

Reactions of dibenzylphosphine oxide with α,β -unsaturated nitriles: synthesis of aminophospholene oxides, **4**, 671

E—*Z* isomerization of 2-methylenethiazolidin-4-ones, **7**, 1292

Exogenous donors of nitric oxide (a chemical aspect) (review), **8**, 1375

Synthesis of 4-acyl(alkoxycarbonyl)-5-fluoroalkyl-3,5-dihydroxyfuran-2(*5H*)-ones, **9**, 1727

Solid-phase oxoalkylation of pyridines and quinolines with 1-methylcycloalkanols under the action of lead tetraacetate, **10**, 1812

Synthesis of 1-substituted (*R,S*)-8-(2-methoxy-5-methylphenyl)-3,3,9-trimethyl-2-azaspiro[4.5]deca-1,7-dien-6-ones, **12**, 2234

Heterocyclic amines

A convenient method for the synthesis of cationic glycerolipids with potential biological activity, **10**, 1931

Heterocyclization

Reactions of 2-(2-chloro-4,5-dihydro-3-furyl)-1,3-diphenyl-1,3-diaza-2 λ^3 -phospholidine with nitrile imines, **6**, 1045

Influence of the texture of chromia catalysts on their activity in synthesis of 2-methylthiophene, **9**, 1694

The first example of heterolytic fragmentation of organic nitrates of a heterofunctional series, **12**, 2306

Heterofunctional polycondensation

Synthesis of dichloro derivatives of linear and cyclic permethyloligosilanes and cyclolinear permethylpolysilane-siloxanes and permethylpolyoxysilane based on them, **1**, 175

Heterogeneous catalysis

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer–Tropsch synthesis and related reactions (review), **1**, 1

Cyclohexane transformations over metal oxide catalysts. 1. Effect of the nature of metal and support on the catalytic activity in cyclohexane ring opening, **2**, 249

Heterolytic fragmentation

The first example of heterolytic fragmentation of organic nitrates of a heterofunctional series, **12**, 2306

Heterometallic bonds

Crystal structure and thermal stability of $\text{Ni}_{151.5}\text{Pb}_{24}\text{S}_{92}$. Search for selenium- and tellurium-containing analogs, **12**, 2139

Heterometallic complexes

Synthesis and molecular structure of the first vinylidene complex $[\text{Cp}(\text{CO})_2\text{MnCu}(\mu\text{-C}=\text{CHPh})(\mu\text{-Cl})]_2$ with the Mn–Cu bond, **7**, 1339

Heteropoly compounds

Catalytic systems based on platinum and heteropoly compounds for oxidation of hydrocarbons with a dioxygen–dihydrogen gaseous mixture, **6**, 975

Heteropolyacids

Adsorption of $\text{H}_3\text{PW}_{12}\text{O}_{40}$ by porous carbon materials, **2**, 243

Hexaalkyldisilanes

Redox reactions of Ge^{II} and Sn^{II} dihalides with triethylsilane and triethylgermane, **7**, 1325

Hexaethylphosphorous triamide

Unusual reaction of hexaethylphosphorous triamide with mercuric chloride leading to the formation of metallic mercury, **1**, 191

Hexafluorocyclopentene derivatives

Photochromic dihetarylethenes. 18. New approach to the synthesis of dithienothiophene and preparation of its photochromic derivative, **11**, 2097

Hexahydrocarbazoles

Synthesis of 1-iodo-1,2,3,4,4a,9a-hexahydrocarbazoles and their isomerization into 3-iodo-2,4-propano-1,2,3,4-tetrahydroquinolines, **7**, 1329

Hexahydroxanthenes

Reactions of nitrogenous derivatives of substituted salicylaldehydes with cyclic ketones and enamines, **7**, 1262

Hexakis[bis(2-aminoethoxy)methylsilylethyl]benzene

New polyfunctional silicon-containing amines $\text{C}_6[\text{CH}_2\text{CH}_2\text{SiMe}(\text{OCH}_2\text{CH}_2\text{NR}_2)_2]_6$ ($\text{R} = \text{H}, \text{Me}$) and their reactions with cobalt(II) chloride and dicobalt octacarbonyl, **12**, 2277

Hexakis[bis(*N,N*-dimethyl-2-aminoethoxy)methylsilylethyl]-benzene

New polyfunctional silicon-containing amines $\text{C}_6[\text{CH}_2\text{CH}_2\text{SiMe}(\text{OCH}_2\text{CH}_2\text{NR}_2)_2]_6$ ($\text{R} = \text{H}, \text{Me}$) and their

reactions with cobalt(II) chloride and dicobalt octacarbonyl, **12**, 2277

Hexane

Cyclohexane transformations over metal oxide catalysts. 1. Effect of the nature of metal and support on the catalytic activity in cyclohexane ring opening, **2**, 249

Cyclohexane transformations over metal oxide catalysts. 2. Selective cyclohexane ring opening to form *n*-hexane over mono- and bimetallic rhodium catalysts, **2**, 255

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Elution and frontal dynamics of adsorption of organic substances on activated carbon, **9**, 1675

Adsorption of surfactants on superfine magnetite, **11**, 2044

Hex-1-ene

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Hexogen

Chain and monomolecular decomposition of hexogen in solutions, **8**, 1433

High-performance liquid chromatography

Conformational analysis and regioisomerism of mono- and diadducts of *O,O*-diisopropyl isoxazolinophosphonate with C_{60} , **4**, 593

Oligoribonucleotides containing an aminoalkyl group at the N(4) atom of cytosine as precursors of new reagents for site-specific modifications of biopolymers, **7**, 1194

Synthesis of new functionally substituted fullereno-pyrrolidines, **9**, 1723

Histamine

Synthesis of phosphamide conjugates of 5'-mononucleotides with carcinine and its analogs, **10**, 1940

Histidine

Site-specific synthetic ribonucleases based on oligonucleotide conjugates with metal-independent organic catalysts of hydrolysis of phosphodiester bonds (review), **7**, 1112

Homeostasis

Structure-functional organization of mouse aquaporin 4 gene, **7**, 1122

Homogeneous catalysis

Carbonylation of methyl acetate in the presence of polymeric rhodium-containing catalysts, **2**, 259

Horseradish peroxidase

Comparative study of horseradish mutant forms by radioenzymology, **5**, 887

Host–guest interactions

Synthesis and the crystal structure of $[\text{Hg}_6\text{As}_4](\text{InCl}_6)\text{Cl}$: influence of covalent and electrostatic factors on the supramolecular structure, **3**, 444

Hybridization

Hybridization of antisense oligonucleotides with yeast tRNA^{Phe}: factors determining the efficiency of interaction, **7**, 1156

Acridine-based macrocycles as potential probes for studies of the structures of nucleic acids, **7**, 1212

Hydration

Reactions of tautomeric quaternary phosphonium salts based on triphenylphosphine and 3-phenylpropargyl bromide with nitrogen nucleophiles, **1**, 148

Proton mobility in hydrates of inorganic acids and acid salts (review), **4**, 555

Hydrazines

Reactions of α -fluorine-containing β -functionalized vinyl sulfides with N-nucleophiles, **6**, 1020

Sulfur ylides. 11. Selected chemical transformations of 1-methylthio-3,4-dihydropyrido[2,1-*a*]isoindole-2,6-dione, **6**, 1035

2-Polyfluoroalkylchromones. 11. Synthesis and structures of 5-hydroxy-3-(2-hydroxyaryl)-5-polyfluoroalkyl- Δ^2 -pyrazolines and 3(5)-(2-hydroxyaryl)-5(3)-polyfluoroalkylpyrazoles, **7**, 1280

Reactions of cyclic enehydrazino ketones with arylidene-malononitriles. Synthesis of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1862

Hydrazones

ESR study of weak exchange interactions in binuclear copper(II) complexes with acyldihydrazones of fluorinated β -diketones, **4**, 632

Hydrides

On the possibility of existence of η^4 - π -complexes of corannulene (C₂₀H₁₀) and C₆₀ fullerene derivatives, **2**, 230

Synthesis and the crystal structure of the triosmium cluster with the μ -dehydrobenzene ligand, Os₃(μ -H)₂(CO)₇(μ -C₆H₄)(μ_3 -Ph₂PCH₂P(C₆H₄)Ph), **2**, 350

Reactions of the Ru₃(CO)₁₀(μ -Ph₂PCH₂PPh₂) cluster with enynes RCH=CHC \equiv CR (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

Hydroalkylation

Cp₂TiCl₂-Catalyzed hydroalkylation of α -olefins with Bu^tBr—Et₃Al, **5**, 833

Hydrobenzamide

One-pot synthesis of *rac*-1,2-diphenylethylene-1,2-diamine, **12**, 2308

Hydrocarbons

Modification of the polytrimethylsilylpropine adsorption layer in open capillary columns, **4**, 625

Catalytic systems based on platinum and heteropoly compounds for oxidation of hydrocarbons with a dioxygen—dihydrogen gaseous mixture, **6**, 975

Specific chemical behavior of Nd^{II} and Dy^{II} iodides in reactions with aromatic compounds, **10**, 1909

Hydrogen

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Catalytic systems based on platinum and heteropoly compounds for oxidation of hydrocarbons with a dioxygen—dihydrogen gaseous mixture, **6**, 975

Hydrogen bonds

IR spectra of hydrogen fluoride solutions in *n*-propanol, **1**, 90

Influence of the position of the nitro group on the structural and spectroscopic characteristics of *N'*-(nitrobenzylidene)isonicotinic hydrazides in the crystalline state, **1**, 99

Molecular and crystal structures of 5,7-dichloro-4-nitro-2,1,3-benzoxadiazole and products of its reactions with secondary amines, **1**, 105

Strong intramolecular hydrogen bond N—H...O in 2-(2-acyl-1-phenylethenyl)-5-phenylpyrroles, **1**, 111

Proton mobility in hydrates of inorganic acids and acid salts (review), **4**, 555

Cooperative intramolecular hydrogen bond and conformations of thioalix[4]arene molecules, **5**, 825

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Characteristic features of intra- and intermolecular interactions in crystals of pyrrole-2-carbaldehyde isonicotinoyl hydrazone and its hydrate, **12**, 2224

Hydrogen fluoride

IR spectra of hydrogen fluoride solutions in *n*-propanol, **1**, 90

Hydrogen peroxide

Chemiluminescence accompanying chitosane destruction in hydrochloric acid solution containing hydrogen peroxide, **1**, 54

Oxidation of *N*-acyl-2-(cycloalk-1-enyl)anilines with ozone and hydrogen peroxide, **1**, 124

A new method for synthesis of *n*-(3-acyloxypropyl)-substituted six- to thirteen-membered alkan-*n*-olides, **10**, 1806

Hydrogen shifts

Protonation of ferrocene, ruthenocene, and osmocene: a density functional study, **10**, 1900

Hydrogen sulfide

Influence of the texture of chromia catalysts on their activity in synthesis of 2-methylthiophene, **9**, 1694

Hydrogenation

Stereospecific 1,4-*cis*-hydrogenation of conjugated dienes, dienynes, and dienediynes catalyzed by chromium carbonyl complexes in stereocontrolled syntheses of physiologically active olefins (review), **8**, 1341

Synthesis of functional 2-substituted 4-phenyl-9*H*-pyrimido[4,5-*b*]indoles, **11**, 2129

Hydrogenation of CO₂ to formic acid in the presence of the Wilkinson complex, **12**, 2165

Hydrogenolysis

Cyclohexane transformations over metal oxide catalysts. 1. Effect of the nature of metal and support on the catalytic activity in cyclohexane ring opening, **2**, 249

Cyclohexane transformations over metal oxide catalysts. 2. Selective cyclohexane ring opening to form *n*-hexane over mono- and bimetallic rhodium catalysts, **2**, 255

Indolopyridines containing a bridgehead heteroatom. 12. Synthesis and reduction of 12-arylidene-5,6-dihydroindolo[2,1-*a*]isoquinolinium trifluoroacetates, **11**, 2116

Hydrolysis

Ammonia and carbon dioxide permeability through perfluorosulfonic membranes, **2**, 275

Enzymatic dissymmetrization of *meso*-2,3-di-methylbutane-1,4-diol and its diacetate. Synthesis of scalemic (–)-lasiol, **3**, 481

Design and synthesis of artificial ribonucleases based on 1,4-diazabicyclo[2.2.2]octane and imidazole (review), **7**, 1100

Site-specific synthetic ribonucleases based on oligonucleotide conjugates with metal-independent organic catalysts of hydrolysis of phosphodiester bonds (review), **7**, 1112

Synthesis of indole-containing analogs of (1*R*)-*cis*-chrysanthemic acid and *N*-substituted (1*R*)-*cis*-chrysanthemylamines, **7**, 1308

Exogenous donors of nitric oxide (a chemical aspect) (review), **8**, 1375

New synthesis of serricornin, the sex pheromone of the cigarette beetle (*Lasioderma serricornis*), **8**, 1600

Fluorinated cyclohexadienones as versatile synthons for preparation of organofluorine compounds (review), **10**, 1775

N- and *O*-Alkylation of 3-indolylcyclopropylacetic acid derivatives, **10**, 1829

Synthesis, acid-base and spectral properties of 3-(benzimidazol-2-yl)-2-phenylimino-2*H*-chromenes, **11**, 2070

Micelle-forming, liquid-crystalline properties, and catalytic effect of the mixed cetyltrimethylammonium bromide—polyethylene glycol(–9) monoalkanoate(–14)—water micellar system, **12**, 2176

The aggregation and catalytic activity of amphiphilic calix[4]resorcinolarenes and phenols in hydrolysis of phosphonous esters in water—dimethylformamide media, **12**, 2183

New polyfunctional silicon-containing amines $C_6[CH_2CH_2SiMe(OCH_2CH_2NR_2)]_6$ (R = H, Me) and their reactions with cobalt(II) chloride and dicobalt octacarbonyl, **12**, 2277

Hydrolytic properties

Synthesis of phosphamide conjugates of 5′-mononucleotides with carcinine and its analogs, **10**, 1940

1-Hydroperoxy-2-oxabicycloalkanes

A new method for synthesis of *n*-(3-acyloxypropyl)-substituted six- to thirteen-membered alkan-*n*-olides, **10**, 1806

Hydroquinones

Synthesis of chromenes with isoprenoid side chains and their selective ozonolysis, **3**, 526

Hydroxides

Formation and properties of a catalyst based on sodium and potassium hydroxides in the reaction of 2,6-di-*tert*-butylphenol with methyl acrylate, **12**, 2189

α-Hydroxy ketones

Photochromic dihetarylethenes. 17. Synthesis and photochromic properties of dithienylethenes containing new heterocyclic bridging fragments, **9**, 1731

2-Hydroxyacetophenone

ESR study of weak exchange interactions in binuclear copper(II) complexes with 2-hydroxyacetophenone acyl-dihydrazones, **12**, 2268

2-(Hydroxyaminoethyl)triphenylphosphonium bromide

Phosphonioethylation of phenylhydrazine and hydroxylamine and selected properties of the resulting derivatives, **9**, 1744

N-Hydroxyaminopropanals

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

Hydroxydeamination

Synthesis and hydroxydeamination in the series of 6-aryl- and 6-benzoimidazolyl-7-aminoazolo[5,1-*c*]-1,2,4-triazines, **9**, 1737

2-(3-Hydroxy-2,2-dimethylpropionylmethylene)imidazolidine

Unexpected synthesis of 6-amino-2,3-dihydro-4-pyrone-3-spirocyclohexane, **1**, 181

20-Hydroxyecdysone

New method for trimethylsilylation of hydroxy-containing compounds. Synthesis of persilylated ecdysteroids and carbohydrates, **10**, 1937

Method for mild trimethylsilylation of the 14α-hydroxy group in ecdysteroids, **10**, 1963

Hydroxyfurazans

Transetherification of difurazanyl ethers as a route to unsymmetrical derivatives of difurazanyl ether, **4**, 659

Hydroxyiminoalkylation

Chemistry of *N,N*-bis(silyloxy)enamines. 4. Study of the reactions of *N,N*-bis(silyloxy)enamines with 1,3-diones, **8**, 1455

Hydroxylamine

Sulfur ylides. 11. Selected chemical transformations of 1-methylthio-3,4-dihydropyrido[2,1-*a*]isoindole-2,6-dione, **6**, 1035

Phosphonioethylation of phenylhydrazine and hydroxylamine and selected properties of the resulting derivatives, **9**, 1744

Hydroxylamine hydrochloride

2-Polyfluoroalkylchromones. 10. Synthesis of regioisomeric 3-(2-hydroxyaryl)-5-polyfluoroalkyl- and 5-(2-hydroxyaryl)-3-polyfluoroalkylisoxazoles and determination of their structures by ¹H, ¹⁹F, and ¹³C NMR spectroscopy, **7**, 1270

Hydroxymethylene

Electrochemical oxidation of 2*H*-imidazole *N*-oxides, **11**, 2065

trans-2-Hydroxymethyl-3-methylcyclopentanone

Stereocontrolled synthesis of *trans*-2-hydroxymethyl-3-methylcyclopentanone from (*S*)-(+)-citronellene, **2**, 359

N-Hydroxy-3-oxobutanamides

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

1-Hydroxy-2-phenyladamantane

2-Phenyl-1-boraadamantane complexes. Crystal structure and use in the synthesis of cage compounds, **8**, 1562

2-Hydroxy-2-polyfluoroalkylchroman-4-ones

2-Polyfluoroalkylchromones. 10. Synthesis of regioisomeric 3-(2-hydroxyaryl)-5-polyfluoroalkyl- and 5-(2-hydroxyaryl)-3-polyfluoroalkylisoxazoles and determination of their structures by ¹H, ¹⁹F, and ¹³C NMR spectroscopy, **7**, 1270

5-Hydroxy-5-polyfluoroalkyl- Δ^2 -isoxazolines

2-Polyfluoroalkylchromones. 10. Synthesis of regioisomeric 3-(2-hydroxyaryl)-5-polyfluoroalkyl- and 5-(2-hydroxyaryl)-3-polyfluoroalkylisoxazoles and determination of their structures by ^1H , ^{19}F , and ^{13}C NMR spectroscopy, **7**, 1270

8-Hydroxyquinolates

8-Hydroxyquinolates of trivalent metals as new catalysts for the reaction of CO_2 with epoxides, **5**, 836

Hydroxystilbenes

Chromium arene complexes in synthesis of *trans*-resveratrol, **7**, 1319

3-Hydroxythiophenes

Synthesis of substituted thiophenes based on fluorine-containing β -functionalized vinyl sulfides, **6**, 1028

Hyperfine structure

ESR study of weak exchange interactions in binuclear copper(II) complexes with acyldihydrazones of fluorinated β -diketones, **4**, 632

ESR study of weak exchange interactions in binuclear copper(II) complexes with 2-hydroxyacetophenone acyldihydrazones, **12**, 2268

Synthesis and study of binuclear vanadyl complexes with acyldihydrazones of salicylaldehyde and dicarboxylic acids, **12**, 2273

I**2H-Imidazole N-oxides**

Electrochemical oxidation of 2H-imidazole N-oxides, **11**, 2065

Imidazoles

New unsymmetrical difluoroaromatic compounds and estimation of their reactivities in nucleophilic substitution, **1**, 117

Design and synthesis of artificial ribonucleases based on 1,4-diazabicyclo[2.2.2]octane and imidazole (review), **7**, 1100

Site-specific synthetic ribonucleases based on oligonucleotide conjugates with metal-independent organic catalysts of hydrolysis of phosphodiester bonds (review), **7**, 1112

Imidazoline oxide

Cross-coupling of aryl iodides with paramagnetic terminal acetylenes derived from 4,4,5,5-tetramethyl-2-imidazoline-1-oxyl 3-oxide, **1**, 128

Imidazolylaminobenzothiazole

Synthesis of 2-(imidazolylamino)benzothiazoles, **3**, 547

Imidazolylphenylthiourea

Synthesis of 2-(imidazolylamino)benzothiazoles, **3**, 547

Iminochromenes

Synthesis, acid-base and spectral properties of 3-(benzoimidazol-2-yl)-2-phenylimino-2H-chromenes, **11**, 2070

Indazole

Synthesis and properties of ferrocenylalkyl derivatives of indazole, **10**, 1894

Indene

New method for the synthesis of indenenes, **11**, 2090

Indenone derivatives

Reactions of the $\text{Ru}_3(\text{CO})_{10}(\mu\text{-Ph}_2\text{PCH}_2\text{PPh}_2)$ cluster with enynes $\text{RCH}=\text{CHC}\equiv\text{CR}$ (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

1-Indenyl-3-butoxypropan-2-ol

Half-sandwich complexes of lanthanides with tridentate ligands $[\text{RCH}_2\text{CH}(\text{O})\text{CH}_2\text{OBu}^n]^{2-}$ (R = C_5H_4 , 1- C_9H_6): synthesis, structures, and properties. The crystal structure of the complex $\{[\eta^5\text{-C}_5\text{H}_4]\text{CH}_2\text{CH}(\mu^2:\eta^1\text{-O})\text{CH}_2\text{OBu}^n\}\text{LaN}(\text{SiMe}_3)_2\}_2$, **4**, 684

Indium compounds

Synthesis and the crystal structure of $[\text{Hg}_6\text{As}_4](\text{InCl}_6)\text{Cl}$: influence of covalent and electrostatic factors on the supramolecular structure, **3**, 444

Synthesis and study of organometallic complexes of octa-phenyltetraazaporphyrinatoindium(III), **12**, 2261

Indole-3-carbaldehyde

Synthesis of new functionally substituted fullereno-pyrrolidines, **9**, 1723

Indoles

Spirocyclohexadienones. 5. Synthesis of 2-R-7a-methyl-3-(spirocyclohexa-2,5-dien-4-one)perhydro-1-indolines, **4**, 709

Easy formation of $\text{S}_\text{N}^\text{H}$ products in reactions of indoles and pyrroles with 3-aryl-1,2,4-triazin-5(2H)-ones in the presence of tosyl chloride, **6**, 1042

Synthesis of indole-containing analogs of (1R)-*cis*-chrysanthemic acid and N-substituted (1R)-*cis*-chrysanthemylamines, **7**, 1308

N- and O-Alkylation of 3-indolylcyclopropylacetic acid derivatives, **10**, 1829

Indolines

Negative-ion mass spectra of some N-mesyl derivatives of *o*-(cycloalk-2-enyl)-, *o*-(cycloalk-1-enyl)-, *o*-(pent-2-enyl)-, *o*-dibromopentylanilines and (α -bromoalkyl)indolines, **12**, 2299

Indolocrown ethers

Synthesis of 5,6-indolo-12-crown-4 ethers, **1**, 135

3-Indolylcyclopropylacetic acid

N- and O-Alkylation of 3-indolylcyclopropylacetic acid derivatives, **10**, 1829

Inductive effect

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Inhibitors

Nitric oxide synthase inhibitors: biology and chemistry (review), **11**, 1973

Initial decomposition temperature

Effect of conformational rigidity on the glass transition and initial decomposition temperatures of polyimides, **5**, 820

Intermediates

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Electrochemical reduction and oxidation of fullereno-pyrrolidines and the ESR spectra of paramagnetic intermediates, **2**, 263

Replacement of an oxygen atom by chlorine atoms in the reaction of pentafluorobenzaldehyde with CCl_3 -substituted compounds in the presence of AlCl_3 , **3**, 544

Intermolecular interactions

Crystal and molecular structures of fluorinated derivatives of C_{60} fullerene, **5**, 754

Characteristic features of intra- and intermolecular interactions in crystals of pyrrole-2-carbaldehyde isonicotinoyl hydrazone and its hydrate, **12**, 2224

Internal mobility

^{123}Sb NQR and ^{19}F NMR study of potassium, rubidium, and cesium heptafluorodiantimonates(III), **11**, 1996

Intramolecular cyclization

Synthesis of 3-methoxy-5-oxo-6-phenyl-5,6-dihydro-4*H*-isothiazolo[5,4-*b*]-1,4-thiazine 7,7-dioxide, the first representative of a new heterocyclic system, **1**, 187

Sulfur ylides. 10. Modified method for the synthesis of pyrrolizine- and indolizinediones, **1**, 189

Intramolecular interactions

Characteristic features of intra- and intermolecular interactions in crystals of pyrrole-2-carbaldehyde isonicotinoyl hydrazone and its hydrate, **12**, 2224

Intramolecular vibrations

The Mills—Nixon and anomeric effects in 2,3-dihydro-1*H*-1,3,2-benzodiazaphospholes: a gas-phase electron diffraction study of $\text{C}_6\text{H}_4(\text{NMe})_2\text{PCl}$ using quantum-chemical data and "a priori" force field, **11**, 2014

Iodides

Formation of dehydrogenated derivatives upon the oxidative dehydrogenation of adamantanes, **2**, 364

New approaches to syntheses of diethers and haloethers from cyclopentadiene, **4**, 616

Specific chemical behavior of Nd^{II} and Dy^{II} iodides in reactions with aromatic compounds, **10**, 1909

Iodination

2-Phenyl-1-boraadamantane complexes. Crystal structure and use in the synthesis of cage compounds, **8**, 1562

Iodocyclization

Synthesis of 1-iodo-1,2,3,4,4a,9a-hexahydrocarbazoles and their isomerization into 3-iodo-2,4-propano-1,2,3,4-tetrahydroquinolines, **7**, 1329

Iododehydrogenation

Formation of dehydrogenated derivatives upon the oxidative dehydrogenation of adamantanes, **2**, 364

Iodolactonization

New synthesis of serricornin, the sex pheromone of the cigarette beetle (*Lasioderma serricorne*), **8**, 1600

Iodomethoxycyclopentene

New approaches to syntheses of diethers and haloethers from cyclopentadiene, **4**, 616

3-Iodo-2,4-propano-1,2,3,4-tetrahydroquinolines

Synthesis of 1-iodo-1,2,3,4,4a,9a-hexahydrocarbazoles and their isomerization into 3-iodo-2,4-propano-1,2,3,4-tetrahydroquinolines, **7**, 1329

Ion compounds

Potentially hexadentate bisazine dioximate ligands: "correct" synthetic procedure and encapsulation reactions of the iron(II) ion, **6**, 1015

Ion exchange

Estimation of the clathrate aggregation of substances in solutions from ion-exchange equilibrium data, **4**, 715

Ion structure

Nature of $\text{Fe}-\text{CH}_2$ bonds in ferrocenylmethyl and ferrocenylendimethyl cations, **9**, 1651

Ionones

Gas chromatographic and IR spectroscopic characteristics of tri- and tetramethylcyclohexenyl butenyl ketones, **9**, 1684

Ions

Specific features of resonance electron capture mass spectra of ecdysteroid molecules, **2**, 306

Spin exchange between transition metal complexes and nitroxyl radicals in nonaqueous media, **12**, 2207

Negative-ion mass spectra of some *N*-mesyl derivatives of *o*-(cycloalk-2-enyl)-, *o*-(cycloalk-1-enyl)-, *o*-(pent-2-enyl)-, *o*-dibromopentylanilines and (α -bromoalkyl)indolines, **12**, 2299

IR spectroscopy

IR spectra of hydrogen fluoride solutions in *n*-propanol, **1**, 90

Influence of the position of the nitro group on the structural and spectroscopic characteristics of *N'*-(nitrobenzylidene)isonicotinic hydrazides in the crystalline state, **1**, 99

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Synthesis and redox properties of bis-ferrocenylethynyl derivatives of bis(dimethylphosphinoethane)manganese, **1**, 170

Synthesis of dichloro derivatives of linear and cyclic permethyloligosilanes and cycloliner permethylpolysilane-siloxanes and permethylpolyoxsilane based on them, **1**, 175

Unexpected synthesis of 6-amino-2,3-dihydro-4-pyrone-3-spirocyclohexane, **1**, 181

Adsorption of $\text{H}_3\text{PW}_{12}\text{O}_{40}$ by porous carbon materials, **2**, 243

Ammonia and carbon dioxide permeability through perfluorosulfonic membranes, **2**, 275

Sulfurization of polymers. 5. Poly(6-methyl-5-sulfanylthieno[2,3-*b*]pyridine-4-thione), poly(thieno[2,3-*b*]azepine-4,5(6*H*)-dithione), and related structures from poly(2-methyl-5-vinylpyridine) and elemental sulfur, **2**, 282

Reactions of carbanions of bis(dialkoxyphosphoryl)bromomethane with fullerenes C_{60} and C_{70} , **2**, 337

1-Thiocarbamoyl(ferrocenyl)-4,5-dihydropyrazoles, **2**, 342

Ring opening in epichlorohydrin and β -methyl epichlorohydrin under the action of the $[\text{PtCl}_4]^{2-}$ anion in aqueous solutions, **2**, 354

Stereocontrolled synthesis of *trans*-2-hydroxymethyl-3-methylcyclopentanone from (*S*)-(+)-citronellene, **2**, 359

First multicomponent synthesis of tricyclic hydrogenated pyridines, **2**, 362

Synthesis of 1,2,4-triazolium 4*N*-nitroimides by the nitration of 1-substituted 4-amino-1,2,4-triazolium nitrates, **3**, 499

Products of reaction of fullerene C_{60} with fuming sulfuric acid studied by IR and ESR spectroscopy, **4**, 628

Transesterification of difurazanyl ethers as a route to unsymmetrical derivatives of difurazanyl ether, **4**, 659

Spirocyclohexadienones. 5. Synthesis of 2-R-7a-methyl-3-(spirocyclohexa-2,5-dien-4-one)perhydro-1-indolines, **4**, 709

Cooperative intramolecular hydrogen bond and conformations of thiocalix[4]arene molecules, **5**, 825

Structure and vibrational spectra of mononitroalkanes, **6**, 940

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Reactions of 2-(2-chloro-4,5-dihydro-3-furyl)-1,3-diphenyl-1,3-diaza-2λ³-phospholidine with nitrile imines, **6**, 1045

Spectra and structure of mercury derivatives of primary nitramines, **6**, 1071

2-Polyfluoroalkylchromones. 10. Synthesis of regioisomeric 3-(2-hydroxyaryl)-5-polyfluoroalkyl- and 5-(2-hydroxyaryl)-3-polyfluoroalkylisoxazoles and determination of their structures by ¹H, ¹⁹F, and ¹³C NMR spectroscopy, **7**, 1270

2-Polyfluoroalkylchromones. 11. Synthesis and structures of 5-hydroxy-3-(2-hydroxyaryl)-5-polyfluoroalkyl-Δ²-pyrazolines and 3(5)-(2-hydroxyaryl)-5(3)-polyfluoroalkylpyrazoles, **7**, 1280

Synthesis of 1,3,5-trisubstituted 1,2,4-triazolio-4-nitroimidides, **7**, 1332

Crown-containing spironaphthoxazines and spiropyran. 3. Synthesis and investigation of the merocyanine form of crown-containing spirobenzothiazolinonaphthoxazine, **8**, 1441

Synthesis of a single isomer of the bis-adduct of isocyanurato-substituted azide with [60]fullerene, **8**, 1491

Diastereoselective synthesis of substituted 1,3,6-triazabicyclo[3.1.0]hexanes, **8**, 1497

On the reactions of aroylacetonitriles with acetoacetates, **8**, 1545

Nitro derivatives of cyclic sulfoximides of the 1,2-benzothiazole series, **8**, 1549

Anilinomethylidene derivatives of cyclic 1,3-dicarbonyl compounds in the synthesis of new sulfur-containing pyridines and quinolines, **8**, 1556

New synthesis of serricornin, the sex pheromone of the cigarette beetle (*Lasioderma serricorne*), **8**, 1600

Analysis of vibrational spectra of naphthalene, deuterio-naphthalenes, and chromium (η⁶-naphthalene)tricarbonyl based on density functional calculations, **9**, 1656

Gas chromatographic and IR spectroscopic characteristics of tri- and tetramethylcyclohexenyl butenyl ketones, **9**, 1684

Synthesis of new functionally substituted fullereno-pyrrolidines, **9**, 1723

Selected properties of bi- and trinuclear complexes prepared by the reactions of Ru₃(CO)₁₂ with β-substituted oxadienes, **9**, 1754

Reaction of 3-(*N*-phenylamino)-1-*p*-tolylprop-2-en-1-one with Ru₃(CO)₁₂, **9**, 1771

2-Polyfluoroalkylchromones. 12. Nitration of 5,7-dimethyl-2-polyhaloalkylchromones and complete assignment of signals in the ¹H and ¹³C NMR spectra of 5,7-dimethyl-2-trifluoromethylchromone and its mono- and dinitro derivatives, **10**, 1817

2-Polyfluoroalkylchromones. 13. Synthesis and nitration of 6,8-dibromo-2-trifluoromethylchromone, **10**, 1954

Selective reduction of fullerene C₆₀ with metals in neutral and alkaline media. Interaction of C₆₀ with KOH, **11**, 2003

Adsorption of surfactants on superfine magnetite, **11**, 2044

Synthesis of β-trifluoroacetyl-substituted vinyl sulfones and vinyl sulfides, **11**, 2080

Cyclization of *O*-benzoyl-β-piperidinopropionamidoximes to form 5-phenyl-3-(β-piperidino)ethyl-1,2,4-oxadiazoles, **11**, 2100

Synthesis of 1-(2-polyfluoroacylamino)phenyl-3-polyfluoroalkylpropane-1,3-diones and 2-polyfluoroalkyl-4-quinolones, **11**, 2109

Characteristic features of intra- and intermolecular interactions in crystals of pyrrole-2-carbaldehyde isonicotinoyl hydrazone and its hydrate, **12**, 2224

Synthesis and study of organometallic complexes of octa-phenyltetraazaporphyrinatoindium(III), **12**, 2261

Iridium compounds

Powder X-ray diffraction study of the double complexes [M(NH₃)₅Cl][M'Cl₄] as precursors of metal powders (M = Ir, Rh, Co; M' = Pt, Pd), **1**, 41

PCP pincer ligands based on metallocenes. Crystal structure of the rhodium complex *cis*-RhCl₂(CO){2,5-(Prⁱ₂PCH₂)₂C₅H₂}Fe(C₅H₅)], **6**, 1077

Iron compounds

Femtosecond relaxation of photoexcited states in nanosized semiconductor particles of iron oxides, **3**, 457

Iron

Gas chromatographic and IR spectroscopic characteristics of tri- and tetramethylcyclohexenyl butenyl ketones, **9**, 1684

Isoamarine

One-pot synthesis of *rac*-1,2-diphenylethylene-1,2-diamine, **12**, 2308

Isobutane

Mechanism of reaction of *n*-butane with but-2-enes in the presence of LaCaX faujasites, **5**, 783

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Chemical ionization mass spectrometric determination of the configuration of decahydroquinolin-4-ols, **10**, 1959

Isobutyraldehyde

Three-component synthesis of 3,4-dihydroisoquinoline derivatives, **5**, 844

Spirocyclohexadienones. 6. Three-component synthesis of 1-R-3,3-dimethyl-2-azaspiro[4.5]deca-1,6,9-trien-8-ones, **5**, 894

Synthesis of 1-substituted (*R,S*)-8-(2-methoxy-5-methylphenyl)-3,3,9-trimethyl-2-azaspiro[4.5]deca-1,7-dien-6-ones, **12**, 2234

Isomerism

Mechanism of reaction of *n*-butane with but-2-enes in the presence of LaCaX faujasites, **5**, 783

Synthesis and properties of ferrocenylalkyl derivatives of indazole, **10**, 1894

Isomerization

Reactions of tautomeric quaternary phosphonium salts based on triphenylphosphine and 3-phenylpropargyl bromide with nitrogen nucleophiles, **1**, 148

On the problem of directed signal transmission and energy transfer in molecular systems, **2**, 222

Cyclohexane transformations over metal oxide catalysts. 1. Effect of the nature of metal and support on the catalytic activity in cyclohexane ring opening, **2**, 249

Dipole-stabilized carbanions in the series of cyclic aldonitrones. 3. The influence of the configuration of the nitron group on H—D exchange of the methine hydrogen atom and metallation of aldonitrones, **2**, 297

Mechanism of reaction of *n*-butane with but-2-enes in the presence of LaCaX faujasites, **5**, 783

Photochemistry of benzothiazolylformazanes in solutions, **5**, 839

Synthesis of 1-iodo-1,2,3,4,4a,9a-hexahydrocarbazoles and their isomerization into 3-iodo-2,4-propano-1,2,3,4-tetrahydroquinolines, **7**, 1329

Reaction of bicyclo[2.2.1]hepta-2,5-diene with the arene-sulfenamide—phosphorus(v) oxohalide system: chemo-, regio-, and stereoselectivity, **8**, 1468

One-pot synthesis of *rac*-1,2-diphenylethylene-1,2-diamine, **12**, 2308

Isomorphous admixture

Anomalies of the partition coefficient and properties of crystals in the region of low concentrations of an isomorphous admixture. 1. Unusual decomposition of solid solutions of the NaCl—CdCl₂ system, **1**, 37

Isoprene

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Isoprenoids

Synthesis of chromenes with isoprenoid side chains and their selective ozonolysis, **3**, 526

Isopropyl alcohol

Influence of rhenium additives on the activity of Cu/sibunit catalyst in transformations of isopropyl alcohol, **9**, 1768

Isoquinolines

Three-component synthesis of 3,4-dihydroisoquinoline derivatives, **5**, 844

Synthesis of substituted bis(3,3-dialkyl-3,4-dihydro-1-isoquinolyl)methanes, **7**, 1303

Isosters

Adsorption of perfluoropropane on the PAC microporous carbon adsorbent, **12**, 2161

Isotherm of adsorption

Effect of acidity of the medium and polarization of the surface on albumin adsorption by carbon fibers, **6**, 1006

Calibration functions in approximate simulations of equilibrium adsorption characteristics, **9**, 1667

Elution and frontal dynamics of adsorption of organic substances on activated carbon, **9**, 1675

Adsorption of perfluoropropane on the PAC microporous carbon adsorbent, **12**, 2161

Isothiazolo[5,4-*b*]-1,4-thiazin-5-ones

Synthesis of 3-methoxy-5-oxo-6-phenyl-5,6-dihydro-4*H*-isothiazolo[5,4-*b*]-1,4-thiazine 7,7-dioxide, the first representative of a new heterocyclic system, **1**, 187

Isotope exchange

Dipole-stabilized carbanions in the series of cyclic aldonitrones. 3. The influence of the configuration of the nitron group on H—D exchange of the methine hydrogen atom and metallation of aldonitrones, **2**, 297

Protonation of ferrocene, ruthenocene, and osmocene: a density functional study, **10**, 1900

Isoxazoles

2-Polyfluoroalkylchromones. 11. Synthesis and structures of 5-hydroxy-3-(2-hydroxyaryl)-5-polyfluoroalkyl- Δ^2 -pyrazolines and 3(5)-(2-hydroxyaryl)-5(3)-polyfluoroalkyl-pyrazoles, **7**, 1280

Synthesis of carbamoylformhydroxymoyl chlorides and study of their reactivities, **8**, 1504

Isoxazolines

Conformational analysis and regioisomerism of mono- and diadducts of *O,O*-diisopropyl isoxazolinophosphonate with C₆₀, **4**, 593

Synthesis of carbamoylformhydroxymoyl chlorides and study of their reactivities, **8**, 1504

Izomerization

E—*Z*-Izomerization of 2-methylenethiazolidin-4-ones, **7**, 1292

K**Ketenes**

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Chemistry of acyl(imidoyl)ketenes. 7. Synthesis and thermolysis of 5-aryl-4-quinoxaliny-2,3-dihydrofuran-2,3-diones, **5**, 850

Ketones

Synthesis of new CF₃-containing 3,4-dihydro-2*H*-pyrans, **4**, 649

The Mn(acac)₃—RCN—CCl₄ system as a new efficient reagent for the oxidation of secondary alcohols into ketones, **6**, 1065

Reactions of nitrogenous derivatives of substituted salicylaldehydes with cyclic ketones and enamines, **7**, 1262

Electrooxidative transformation of unsubstituted and substituted nitro hydrocarbons into carbonyl compounds, **8**, 1460

Estimation of dissociation energies of C—H bonds in oxygen-containing compounds from kinetic data for radical abstraction reactions, **9**, 1641

N- and *O*-Alkylation of 3-indolylcyclopropylacetic acid derivatives, **10**, 1829

Generation of alkyl hypochlorites in oxidation of alcohols with carbon tetrachloride catalyzed by vanadium and manganese compounds, **11**, 2074

Kinetics

Free radical formation during ethylbenzene oxidation catalyzed by cetyltrimethylammonium bromide, **3**, 449

Kinetics, mechanism, and products of the reaction of diphenylcarbonyl oxide with carboxylic acids, **4**, 608

New approaches to syntheses of diethers and haloethers from cyclopentadiene, **4**, 616

Transetherification of difurazanyl ethers as a route to unsymmetrical derivatives of difurazanyl ether, **4**, 659

First example of the formation of bipolar spiro σ -complexes from 6-bromo-5,7-dinitrobenzo[*e*]-1,2,3,4-tetrazine 1,3-d*N*-oxide, **4**, 668

Hybridization of antisense oligonucleotides with yeast tRNA^{Phc}: factors determining the efficiency of interaction, **7**, 1156

Sequence-specific RNA cleavage by oligonucleotide-peptide conjugates, **7**, 1177

10-23 DNA enzymes for targeting *MDR1* mRNA, **7**, 1190

Estimation of dissociation energies of C—H bonds in oxygen-containing compounds from kinetic data for radical abstraction reactions, **9**, 1641

Elution and frontal dynamics of adsorption of organic substances on activated carbon, **9**, 1675

Arylsulfonylation of *N*-isobutylaniline and its derivatives: experimental study and quantum-chemical calculations, **12**, 2157

The role of pressure in partial oxidation of methane, **12**, 2170

Micelle-forming, liquid-crystalline properties, and catalytic effect of the mixed cetyltrimethylammonium bromide—polyethylene glycol(–9) monoalkanoate(–14)—water micellar system, **12**, 2176

The aggregation and catalytic activity of amphiphilic calix[4]resorcinolarenes and phenols in hydrolysis of phosphonous esters in water—dimethylformamide media, **12**, 2183

Formation and properties of a catalyst based on sodium and potassium hydroxides in the reaction of 2,6-di-*tert*-butylphenol with methyl acrylate, **12**, 2189

Synthesis and study of organometallic complexes of octa-phenyltetraazaporphyrinatoindium(III), **12**, 2261

Knoevenagel reaction

On the reactions of aroylacetonitriles with acetoacetates, **8**, 1545

Kuhn segment

Effect of conformational rigidity on the glass transition and initial decomposition temperatures of polyimides, **5**, 820

L

Lactones

Generation of alkyl hypochlorites in oxidation of alcohols with carbon tetrachloride catalyzed by vanadium and manganese compounds, **11**, 2074

Lanthanide compounds

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

Chemiluminescence activated by the Tb³⁺ ion in (BuⁱAl)₂O aluminoxane oxidation with dioxygen in toluene, **5**, 904

Lanthanides

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Half-sandwich complexes of lanthanides with tridentate ligands [RCH₂CH(O)CH₂OBuⁿ]²⁻ (R = C₅H₄, 1-C₉H₆): synthesis, structures, and properties. The crystal structure of the complex {[η^5 -C₅H₄)CH₂CH(μ^2 : η^1 -O)CH₂OBuⁿ]LaN(SiMe₃)₂]₂, **4**, 684

Specific chemical behavior of Nd^{II} and Dy^{II} iodides in reactions with aromatic compounds, **10**, 1909

Luminescence of lanthanides in complexes with chromophoric crown ethers, **12**, 2303

Laser ablation

Crystalline carbon nitrides: thin films and bulk samples, **9**, 1633

Lattice model

Calibration functions in approximate simulations of equilibrium adsorption characteristics, **9**, 1667

Lattice-gas model

Concentration dependences of heat conductivity coefficients of inert gases in narrow pores, **11**, 2026

Lead compounds

Solid-phase oxoalkylation of pyridines and quinolines with 1-methylcycloalkanols under the action of lead tetraacetate, **10**, 1812

Crystal structure and thermal stability of Ni_{151.5}Pb₂₄S₉₂. Search for selenium- and tellurium-containing analogs, **12**, 2139

Leuckart reaction

Sulfur ylides. 11. Selected chemical transformations of 1-methylthio-3,4-dihydropyrido[2,1-*a*]isindole-2,6-dione, **6**, 1035

Lewis acids

Replacement of an oxygen atom by chlorine atoms in the reaction of pentafluorobenzaldehyde with CCl₃-substituted compounds in the presence of AlCl₃, **3**, 544

Ligands

Pd-Catalyzed asymmetric allylation of an *o*-carborane derivative, **3**, 513

Palladium-catalyzed asymmetric allylation and complex formation involving *P,N*-bidentate derivatives of (*S*)-2-(anilinomethyl)pyrrolidine, **3**, 521

Role of ligands in homogeneous catalysis based on transition metals (review), **6**, 930

Linoleic acid

Adsorption of surfactants on superfine magnetite, **11**, 2044

Lipases

Enzymatic dissymmetrization of *meso*-2,3-di-methylbutane-1,4-diol and its diacetate. Synthesis of scalemic (–)-lasiol, **3**, 481

Lithium compounds

Dipole-stabilized carbanions in the series of cyclic aldionitrones. 3. The influence of the configuration of the nitron group on H—D exchange of the methine hydrogen atom and metallation of aldionitrones, **2**, 297

Synthesis of (7-polyfluoroalkyl)pyrazolo[1,5-*a*]pyrimidines based on lithium fluorine-containing β -diketonates, **2**, 332

Luminescence

Electronic excitation energy transfer in solid solution of 7-diethylamino-3,4-benzophenoxazine-2-one (Nile Red dye) in bis[*N*-2-(oxybenzylidene)-4-*tert*-butylaniline]zinc, **1**, 67

Heterocyclic analogs of pleiadine. 69. Synthesis and oxidative hydroxylation of 1-alkyl-1,3-diazapyrenium salts, **1**, 139

Luminescence of salts and copolymers containing the (Mo^{VI}Cl₈)⁴⁺ cluster, **6**, 994

Excited-state intramolecular proton transfer in 2,4,5-triarylimidazole molecules, **11**, 2050

Luminescence of lanthanides in complexes with chromophoric crown ethers, **12**, 2303

Lutetium compounds

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Lyomesophase

Micelle-forming, liquid-crystalline properties, and catalytic effect of the mixed cetyltrimethylammonium bromide—polyethylene glycol(–9) monoalkanoate(–14)—water micellar system, **12**, 2176

M**Macrocyclic compounds**

Synthesis of new macrocyclic aminomethylphosphines based on 4,4'-diaminodiphenylmethane and its derivatives, **1**, 151

Binuclear and polynuclear transition metal complexes with macrocyclic ligands. 2. New macrocyclic Schiff's base in the reaction of 4-*tert*-butyl-2,6-diformylphenol with 1,2-diaminobenzene. Synthesis and structural, spectroscopic, and theoretical study, **3**, 488

Magnesium

Selective reduction of fullerene C₆₀ with metals in neutral and alkaline media. Interaction of C₆₀ with KOH, **11**, 2003

Magnetic field

Adsorption of surfactants on superfine magnetite, **11**, 2044

Magnetic properties

Reactions of pyrrole-2,5-dicarbaldehyde with 2-aminodiphenylamine in the presence of nickel and cobalt trimethylacetates, **8**, 1575

Formation of cobalt(III) cations with semiquinonediimine ligands, **8**, 1581

Magnetite

Adsorption of surfactants on superfine magnetite, **11**, 2044

Magnetochemistry

Synthesis and structures of nickel(II) complexes with thioether-containing β -aminovinyl ketones, **10**, 1924

MALDI-TOF mass spectrometry

Triterpene glycosides from *Pulsatilla chinensis*, **10**, 1945

Malonates

Chemistry of *N,N*-bis(silyloxy)enamines. 4. Study of the reactions of *N,N*-bis(silyloxy)enamines with 1,3-diones, **8**, 1455

Malononitrile

First multicomponent synthesis of tricyclic hydrogenated pyridines, **2**, 362

Synthesis of substituted bis(3,3-dialkyl-3,4-dihydro-1-isoquinolyl)methanes, **7**, 1303

Manganese compounds

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

Synthesis and redox properties of bis-ferrocenylethynyl derivatives of bis(dimethylphosphinoethane)manganese, **1**, 170

The Mn(acac)₃—RCN—CCl₄ system as a new efficient reagent for the oxidation of secondary alcohols into ketones, **6**, 1065

Synthesis and molecular structure of the first vinylidene complex [Cp(CO)₂MnCu(μ -C=CHPh)(μ -Cl)]₂ with the Mn—Cu bond, **7**, 1339

Metallation of fullerenes: electrochemical synthesis and voltammetric study of heterometallic C₆₀ and C₇₀ complexes, **8**, 1588

Generation of alkyl hypochlorites in oxidation of alcohols with carbon tetrachloride catalyzed by vanadium and manganese compounds, **11**, 2074

Mannich bases

Reactions of nitrogenous derivatives of substituted salicylaldehydes with cyclic ketones and enamines, **7**, 1262

Marine actinobacterium

Ubiquinone Q₉ from a marine isolate of an actinobacterium *Nocardia* sp., **10**, 1951

Mass action law

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Mass spectrometry

Thermal decomposition of deuterofullerite, **1**, 96

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

Specific features of resonance electron capture mass spectra of ecdysteroid molecules, **2**, 306

Synthesis of crown-containing 2-styrylbenzothiazoles. Effect of alkali metal cations on the condensation of crown-ether benzaldehydes with 2-methylbenzothiazole, **2**, 319

Stereocontrolled synthesis of *trans*-2-hydroxymethyl-3-methylcyclopentanone from (*S*)-(+)-citronellene, **2**, 359

Steroid compounds from the starfish *Lysastrosoma anthosticta* collected in the Sea of Japan, **3**, 535

Transetherification of difurazanyl ethers as a route to unsymmetrical derivatives of difurazanyl ether, **4**, 659

Spirocyclohexadienones. 5. Synthesis of 2-R-7a-methyl-3-(spirocyclohexa-2,5-dien-4-one)perhydro-1-indolines, **4**, 709

Condensation of polyfluorinated β -diimines with aromatic aldehydes, **4**, 712

Synthesis of carbamoylformhydroxymoyl chlorides and study of their reactivities, **8**, 1504

On the reactions of aroylacetonitriles with acetoacetates, **8**, 1545

Chemical ionization mass spectrometric determination of the configuration of decahydroquinolin-4-ols, **10**, 1959

Three-component cyclization of hydroxylamino-substituted quinoline with reactive methylene compounds and formaldehyde: new method for the synthesis of 7-(isoxazolidin-2-yl)-6-fluoroquinolones, **11**, 2106

Steroid polyols from the Far-Eastern starfish *Henricia sanguinolenta*, **12**, 2295

Negative-ion mass spectra of some *N*-mesyl derivatives of *o*-(cycloalk-2-enyl)-, *o*-(cycloalk-1-enyl)-, *o*-(pent-2-enyl)-, *o*-dibromopentylanilines and (α -bromoalkyl)indolines, **12**, 2299

Mass transfer mechanism

Ammonia and carbon dioxide permeability through perfluorosulfonic membranes, **2**, 275

Maxizymes

RNA targeting at any chosen site of interest by the novel RNA-protein hybrid ribozyme and the gene discovery based on the hybrid ribozyme libraries, **7**, 1166

Mediators

Stereoselective electrochemical transformation of 4-substituted cyclohexanones into *cis*-5-substituted 2,2-dimethoxycyclohexanols, **8**, 1478

Mercuration

Reaction of ruthenacarborane with trifluoroacetoxymercuroferracarborane, **3**, 517

Mercuric chloride

Unusual reaction of hexaethylphosphorous triamide with mercuric chloride leading to the formation of metallic mercury, **1**, 191

Mercury compounds

Spectra and structure of mercury derivatives of primary nitramines, **6**, 1071

Metal alkoxides

ESR study of the thermal decomposition of di-*tert*-butoxy-*tert*-butyl alumotrioxide formed in the reaction of tri-*tert*-butoxyaluminum with *tert*-butyl hydroperoxide, **4**, 638

Metal chelates

Synthesis and structures of nickel(II) complexes with thioether-containing β -aminovinyl ketones, **10**, 1924

Metal complexes

Metallation of fullerenes: electrochemical synthesis and voltammetric study of heterometallic C₆₀ and C₇₀ complexes, **8**, 1588

Metal halides

Synthesis of dichloro derivatives of linear and cyclic permethyloligosilanes and cycloliner permethylpolysilane-siloxanes and permethylpolyoxysilane based on them, **1**, 175

Stereoselective electrochemical transformation of 4-substituted cyclohexanones into *cis*-5-substituted 2,2-dimethoxycyclohexanols, **8**, 1478

Synthesis of α,ω -dichloropermethyloigosilanes by reactions of polydimethylsilane with metal chlorides, **9**, 1751

Metal ions

Crown-containing spironaphthoxazines and spiropyrans. 2. Influence of metal cations on the photochromic properties of spironaphthoxazines linked with aza-15(18)-crown-5(6) ethers, **1**, 58

Metal oxides

Femtosecond relaxation of photoexcited states in nanosized semiconductor particles of iron oxides, **3**, 457

Metal salts

Unusual reaction of hexaethylphosphorous triamide with mercuric chloride leading to the formation of metallic mercury, **1**, 191

Metal-containing polymers

Synthesis and properties of styrenetricarbonylchromium and its analogs (review), **4**, 581

Metallacarboranes

(Arene)ruthenium complexes with the monoanionic carborane ligand [9-SMe₂-7,8-C₂B₉H₁₀]⁻, **10**, 1928

Metallation

Dipole-stabilized carbanions in the series of cyclic aldonitrones. 3. The influence of the configuration of the nitron group on H—D exchange of the methine hydrogen atom and metallation of aldonitrones, **2**, 297

Synthesis and the crystal structure of the triosmium cluster with the μ -dehydrobenzene ligand, Os₃(μ -H)₂(CO)₇(μ -C₆H₄)₂{ μ_3 -Ph₂PCH₂P(C₆H₄)Ph}, **2**, 350

Synthesis of sulfur-containing sydnones, **5**, 899

PCP pincer ligands based on metallocenes. Crystal structure of the rhodium complex *cis*-RhCl₂(CO)[{2,5-(Prⁱ₂PCH₂)₂C₃H₂}Fe(C₃H₅)], **6**, 1077

Metallation of fullerenes: electrochemical synthesis and voltammetric study of heterometallic C₆₀ and C₇₀ complexes, **8**, 1588

Metallation of poly(1-trimethylsilyl-1-prop-1-yne) and poly(vinyltrimethylsilane) with superbases, **12**, 2248

Metallic mercury

Unusual reaction of hexaethylphosphorous triamide with mercuric chloride leading to the formation of metallic mercury, **1**, 191

Metallocenes

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

PCP pincer ligands based on metallocenes. Crystal structure of the rhodium complex *cis*-RhCl₂(CO)[{2,5-(Prⁱ₂PCH₂)₂C₃H₂}Fe(C₃H₅)], **6**, 1077

Metalloacenylmethyl cations

Single-, double-, and triple-charged cations based on iron-subgroup decamethylmetallocenes (review), **9**, 1616

meso-Metalloacenylporphyrins

Femtosecond dynamics of relaxation of photoexcited *meso*-tetraferrocenylporphyrin in the nonprotonated and protonated forms (Fc₄PH₂ and Fc₄PH₄²⁺), **6**, 986

Metalloenzymes

RNA targeting at any chosen site of interest by the novel RNA-protein hybrid ribozyme and the gene discovery based on the hybrid ribozyme libraries, **7**, 1166

Metalloionium bonding

Nature of Fe—CH₂ bonds in ferrocenylmethyl and ferrocenylenedimethyl cations, **9**, 1651

Metalloionium cations

Single-, double-, and triple-charged cations based on iron-subgroup decamethylmetallocenes (review), **9**, 1616

Metathesis

New tungsten carbyne complexes containing the triphenylgermyl and triphenylstannyl groups at the carbyne carbon atom (Bu^tO)₃W≡C—EPh₃ (E = Ge, Sn), **3**, 552

Ring-closing metathesis of 2,2-diallyl derivatives of pyrrolidine and piperidine: a route to azaspiroheterocyclic structures, **4**, 645

Metathetical imidation of dioxobis(dimethyldithiocarbamate)molybdenum with *o*-substituted *N*-sulfinylanilines, **6**, 1075

Methane

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Chemical ionization mass spectrometric determination of the configuration of decahydroquinolin-4-ols, **10**, 1959

The role of pressure in partial oxidation of methane, **12**, 2170

Methanofullerenes

ESR parameters and transformations of the products of reduction of methanofullerenes, **5**, 813

Methanol

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Dehydrogenation of methanol on low Cu and Re—Cu catalysts supported on sibunite, **9**, 1698

The role of pressure in partial oxidation of methane, **12**, 2170

Methoxylation

New approaches to syntheses of diethers and haloethers from cyclopentadiene, **4**, 616

4-Methoxyphenyllithium

Synthesis of 2- and 3-pyridinyl(aryl)methanones, **3**, 540

1-Methoxypropa-1,2-diene

Acetylene—allene rearrangement of propargyl systems X—CH₂—C≡CH (X = H, Me, NMe₂, OMe, F, SMe): an *ab initio* study, **5**, 774

1(3)-Methoxypropyne

Acetylene—allene rearrangement of propargyl systems X—CH₂—C≡CH (X = H, Me, NMe₂, OMe, F, SMe): an *ab initio* study, **5**, 774

Methoxystilbenes

Chromium arene complexes in synthesis of *trans*-resveratrol, **7**, 1319

Methyl acetate

Carbonylation of methyl acetate in the presence of polymeric rhodium-containing catalysts, **2**, 259

Methyl acrylate

Formation and properties of a catalyst based on sodium and potassium hydroxides in the reaction of 2,6-di-*tert*-butylphenol with methyl acrylate, **12**, 2189

Sulfur ylides. 12. Optically active keto stabilized sulfur ylide obtained from L-proline: synthesis and study, **12**, 2230

Methyl (2,5-dimethylthiophen-3-yl)acetate

Photochromic dihetarylethenes. 14. Synthesis of symmetrical and unsymmetrical dihetarylcyclobutene-1,2-diones, **8**, 1515

Methyl formate

Dehydrogenation of methanol on low Cu and Re—Cu catalysts supported on sibunite, **9**, 1698

peri-Methyl group

2-Polyfluoroalkylchromones. 12. Nitration of 5,7-dimethyl-2-polyhaloalkylchromones and complete assignment of signals in the ¹H and ¹³C NMR spectra of 5,7-dimethyl-2-trifluoromethylchromone and its mono- and dinitro derivatives, **10**, 1817

Methyl ketones

Synthesis of indole-containing analogs of (1*R*)-*cis*-chrysanthemic acid and *N*-substituted (1*R*)-*cis*-chrysanthemylamines, **7**, 1308

Methyl malonates

Chemistry of *N,N*-bis(silyloxy)enamines. 4. Study of the reactions of *N,N*-bis(silyloxy)enamines with 1,3-diones, **8**, 1455

Methyl 5-methylthieno[3,2-*b*]thiophene-2-carboxylate

Photochromic dihetarylethenes. 14. Synthesis of symmetrical and unsymmetrical dihetarylcyclobutene-1,2-diones, **8**, 1515

Methyl 4-nitrohexanoate

Electrooxidative transformation of unsubstituted and substituted nitro hydrocarbons into carbonyl compounds, **8**, 1460

Methyl propyl ketone

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Methyl trifluoropyruvate diethoxyphosphorylimine

Aza Diels—Alder reactions of methyl trifluoropyruvate sulfonyl- and phosphorylimines with 1,3-dienes, **7**, 1298

Methyl trifluoropyruvate imines

Aza Diels—Alder reactions of methyl trifluoropyruvate sulfonyl- and phosphorylimines with 1,3-dienes, **7**, 1298

Methyl vinyl ketone

Sulfur ylides. 12. Optically active keto stabilized sulfur ylide obtained from L-proline: synthesis and study, **12**, 2230

***p*-Methylanisole**

Synthesis of 1-substituted (*R,S*)-8-(2-methoxy-5-methylphenyl)-3,3,9-trimethyl-2-azaspiro[4.5]deca-1,7-dien-6-ones, **12**, 2234

Methylation

Study of alkaloids of the Siberian and Altai flora. 9. Synthesis of amino derivatives of elatidine, **12**, 2290

2-Methylbenzothiazole

Synthesis of crown-containing 2-styrylbenzothiazoles. Effect of alkali metal cations on the condensation of crown-ether benzaldehydes with 2-methylbenzothiazole, **2**, 319

Methylcyclohexanones

Binding of cyclic compounds by starch cryotextures from aqueous solutions, **9**, 1689

Methylcyclopentane

Cyclohexane transformations over metal oxide catalysts. 1. Effect of the nature of metal and support on the catalytic activity in cyclohexane ring opening, **2**, 249

Methylene

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

2-Methylenethiazolidin-4-ones

E—*Z*-Izomerization of 2-methylenethiazolidin-4-ones, **7**, 1292

(4*S*,5*E*)-4-Methylhept-5-enenitrile

New synthesis of serricornin, the sex pheromone of the cigarette beetle (*Lasioderma serricornne*), **8**, 1600

(4*S*,5*E*)-4-Methylhept-5-enoic acid

New synthesis of serricornin, the sex pheromone of the cigarette beetle (*Lasioderma serricornne*), **8**, 1600

Methylhydrazines

2-Polyfluoroalkylchromones. 11. Synthesis and structures of 5-hydroxy-3-(2-hydroxyaryl)-5-polyfluoroalkyl- Δ^2 -pyrazolines and 3(5)-(2-hydroxyaryl)-5(3)-polyfluoroalkylpyrazoles, **7**, 1280

Methyl-3-(4-hydroxy-3,5-di-*tert*-butylphenyl) propionate

Formation and properties of a catalyst based on sodium and potassium hydroxides in the reaction of 2,6-di-*tert*-butylphenol with methyl acrylate, **12**, 2189

2-Methylidenepropane-1,3-diol

The first example of heterolytic fragmentation of organic nitrates of a heterofunctional series, **12**, 2306

Methylimine

Study of alkaloids of the Siberian and Altai flora. 8. Crystal and molecular structure of elatidal methylimine hydrate, **10**, 1965

***S*-Methylisothiosemicarbazide**

1,2,4-Triazino[5,6,1-*i,j*]quinolines: a new type of tricyclic analogs of fluoroquinolones, **4**, 663

***N*-Methylmorpholinium**

First multicomponent synthesis of tricyclic hydrogenated pyridines, **2**, 362

Methylnitramine

Spectra and structure of mercury derivatives of primary nitramines, **6**, 1071

(*S*)-3-Methyl-6-nitrohex-1-ene

Stereocontrolled synthesis of *trans*-2-hydroxymethyl-3-methylcyclopentanone from (*S*)-(+)-citronellene, **2**, 359

2-Methyl-1,3,4-oxadiazoles

A new approach to the one-pot synthesis of 5-substituted 2-methyl-1,3,4-oxadiazoles from *N*-tributylstannyltetrazoles, **2**, 357

4-Methyl-substituted aldehyde acetals

Regioselective splitting of 3-alkyl-1-ethylaluminacyclopentanes with orthoformates as a new route to 1-functionalized 4-methylalkanes, **5**, 901

6-Methyl-2-(tetrahydropyran)aniline

Oxidation of *N*-acyl-2-(cycloalk-1-enyl)anilines with ozone and hydrogen peroxide, **1**, 124

1-Methylthio-3,4-dihydropyrido[2,1-*a*]isoindole-2,6-dione

Sulfur ylides. 10. Modified method for the synthesis of pyrrolizine- and indolizinediones, **1**, 189

Sulfur ylides. 11. Selected chemical transformations of 1-methylthio-3,4-dihydropyrido[2,1-*a*]isoindole-2,6-dione, **6**, 1035

Methylthiomethyl ethers

A convenient method for the synthesis of cationic glycerolipids with potential biological activity, **10**, 1931

2-Methylthiophene

Photochromic dihetarylethenes. 14. Synthesis of symmetrical and unsymmetrical dihetarylcyclobutene-1,2-diones, **8**, 1515

Influence of the texture of chromia catalysts on their activity in synthesis of 2-methylthiophene, **9**, 1694

1-Methylthiopropa-1,2-diene

Acetylene—allene rearrangement of propargyl systems $X-CH_2-C\equiv CH$ ($X = H, Me, NMe_2, OMe, F, SME$): an *ab initio* study, **5**, 774

1(3)-Methylthiopropyne

Acetylene—allene rearrangement of propargyl systems $X-CH_2-C\equiv CH$ ($X = H, Me, NMe_2, OMe, F, SME$): an *ab initio* study, **5**, 774

Micellar catalysis

Micelle-forming, liquid-crystalline properties, and catalytic effect of the mixed cetyltrimethylammonium bromide—polyethylene glycol(–9) monoalkanoate(–14)—water micellar system, **12**, 2176

Micellization

Conceivably the first example of a phase transition in aqueous solutions of oligosaccharide glycosides. Evidence from variable-temperature 1H NMR and optical rotation measurements for a solution of allyl lactoside, **7**, 1337

Micelle-forming, liquid-crystalline properties, and catalytic effect of the mixed cetyltrimethylammonium bromide—polyethylene glycol(–9) monoalkanoate(–14)—water micellar system, **12**, 2176

The aggregation and catalytic activity of amphiphilic calix[4]resorcinolarenes and phenols in hydrolysis of phosphonous esters in water—dimethylformamide media, **12**, 2183

Michael reaction

Synthesis of crown-containing 2-styrylbenzothiazoles. Effect of alkali metal cations on the condensation of crown-ether benzaldehydes with 2-methylbenzothiazole, **2**, 319

Mills—Nixon effect

The Mills—Nixon and anomeric effects in 2,3-dihydro-1*H*-1,3,2-benzodiazaphospholes: a gas-phase electron diffraction

study of $C_6H_4(NMe)_2PCl$ using quantum-chemical data and "a priori" force field, **11**, 2014

Mixed chalcogenides

Crystal structure and thermal stability of $Ni_{151.5}Pb_{24}S_{92}$. Search for selenium- and tellurium-containing analogs, **12**, 2139

Mobility of polarons

ESR study of mechanism of polyaniline conductivity, **12**, 2216

2'-O-Modified oligoribonucleotides

Chimeric oligonucleotides based on 2'-O-modified oligoribonucleotides with the terminal 3'-3' internucleotide linkage as potential inhibitors of *MDR1* gene expression, **7**, 1217

Molecular dynamics

Effect of local strain on the reactivity of carbon nanotubes, **5**, 764

Molecular oxygen

ESR study of mechanism of polyaniline conductivity, **12**, 2216

Molecular structure

Influence of the position of the nitro group on the structural and spectroscopic characteristics of *N'*-(nitrobenzylidene)isonicotinic hydrazides in the crystalline state, **1**, 99

Molecular and crystal structures of 5,7-dichloro-4-nitro-2,1,3-benzoxadiazole and products of its reactions with secondary amines, **1**, 105

Strong intramolecular hydrogen bond N—H...O in 2-(2-acyl-1-phenylethenyl)-5-phenylpyrroles, **1**, 111

Synthesis of new macrocyclic aminomethylphosphines based on 4,4'-diaminodiphenylmethane and its derivatives, **1**, 151

On the possibility of existence of η^4 - π -complexes of corannulene ($C_{20}H_{10}$) and C_{60} fullerene derivatives, **2**, 230

Cascade cycloaddition reactions involving dimethylhydrazones of α -substituted acroleins, **2**, 326

Synthesis of (7-polyfluoroalkyl)pyrazolo[1,5-*a*]pyrimidines based on lithium fluorine-containing β -diketonates, **2**, 332

Synthesis and crystal structure of supramolecular adduct of tetranuclear uranyl chloride aquacomplex with macrocyclic cavitand cucurbituril, **2**, 346

Synthesis and the crystal structure of the triosmium cluster with the μ -dehydrobenzene ligand, $Os_3(\mu-H)_2(CO)_7(\mu-C_6H_4)(\mu_3-Ph_2PCH_2P(C_6H_4)Ph)$, **2**, 350

First multicomponent synthesis of tricyclic hydrogenated pyridines, **2**, 362

Synthesis and the crystal structure of $[Hg_6As_4](InCl_6)Cl$: influence of covalent and electrostatic factors on the supramolecular structure, **3**, 444

Photo- and thermochromic spiroyrans. 21. 8'-Formyl-3,6'-dimethyl-4-oxospiro(3,4-dihydro-2*H*-1,3-benzoxazine-2,2'-[2*H*]chromene) possessing photochromic properties in the solid phase, **3**, 462

Redox properties of N_2S_2 -type nickel complexes with aromatic ligands. Crystal structure of $[1,2-C_6H_4(SMe)NH_2]_2Ni^{2+}(MeCN)_2 \cdot 2ClO_4^-$, **3**, 467

Binuclear and polynuclear transition metal complexes with macrocyclic ligands. 2. New macrocyclic Schiff's base in the

reaction of 4-*tert*-butyl-2,6-diformylphenol with 1,2-diaminobenzene. Synthesis and structural, spectroscopic, and theoretical study, **3**, 488

Reaction of ruthenacarborane with trifluoroacetoxymercuroferrocaborane, **3**, 517

Tetranuclear rhenium chalcogenide cluster complexes with a cubane core. Synthesis, structures, and properties (review), **4**, 569

Conformational analysis and regioisomerism of mono- and diadducts of *O,O*-diisopropyl isoxazolinophosphonate with C_{60} , **4**, 593

Reactions of *N,N*-(dialkyl)arylthioacetamides with dialkyl acetylenedicarboxylates, **4**, 653

Heteroorganic betaines. 8. Synthesis and structures of silicon- and germanium-containing organoarsenic betaines $R^1_3As^+-CR^2R^3-EMe_2-S^-$ (E = Si, Ge), **4**, 678

Half-sandwich complexes of lanthanides with tridentate ligands $[RCH_2CH(O)CH_2OBU^n]^{2-}$ (R = C_5H_4 , 1- C_9H_6): synthesis, structures, and properties. The crystal structure of the complex $\{[(\eta^5-C_5H_4)CH_2CH(\mu^2:\eta^1-O)CH_2OBU^n]LaN(SiMe_3)_2\}_2$, **4**, 684

Transformations of spirocyclooligomers of 1,3-bis(ferrocenylmethylidene)-2-methylidene cycloalkanes in acid medium, **4**, 691

New heteroorganic betaines containing the $(^+)E^{15}-C-E^{14}-X^{(-)}$ and $(^+)E^{15}-C-E^{14}(-)$ structural fragments (E^{15} = P, As; E^{14} = Si, Ge, Sn; X = C, S, O, NR) (review), **5**, 721

Crystal and molecular structures of fluorinated derivatives of C_{60} fullerene, **5**, 754

Chemistry of acyl(imidoyl)ketenes. 7. Synthesis and thermolysis of 5-aryl-4-quinoxaliny-2,3-dihydrofuran-2,3-diones, **5**, 850

23-Electron Re_6 metal clusters: syntheses and crystal structures of $(Ph_4P)_3[Re_6S_8(CN)_6]$, $(Ph_4P)_2(H)[Re_6Se_8(CN)_6] \cdot 8H_2O$, and $(Et_4N)_2(H)[Re_6Te_8(CN)_6] \cdot 2H_2O$, **5**, 866

Rhenium complexes with pyrazoles. Synthesis and crystal structure of *trans*- $[Re(O)(OMe)L_4]Br_2 \cdot L \cdot 4H_2O$ (L is 3,5-dimethylpyrazole), **5**, 872

Reactions of the $Ru_3(CO)_{10}(\mu-Ph_2PCH_2PPh_2)$ cluster with enynes $RCH=CHC\equiv CR$ (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

Structure and vibrational spectra of mononitroalkanes, **6**, 940

Potentially hexadentate bisazine dioximate ligands: "correct" synthetic procedure and encapsulation reactions of the iron(II) ion, **6**, 1015

Reactions of 2-(2-chloro-4,5-dihydro-3-furyl)-1,3-diphenyl-1,3-diaza- $2\lambda^3$ -phospholidine with nitrile imines, **6**, 1045

Synthesis and structures of triphenylantimony oximates, **6**, 1051

Spectra and structure of mercury derivatives of primary nitramines, **6**, 1071

PCP pincer ligands based on metallocenes. Crystal structure of the rhodium complex *cis*-RhCl₂(CO)[{2,5-(Prⁱ₂PCH₂)₂C₅H₂}Fe(C₅H₅)], **6**, 1077

Stereoselective synthesis of *cis*-4,7-disubstituted 4,7-dihydroxy-4,7-dihydro[2.2]paracyclophanes, **8**, 1483

Diastereoselective synthesis of substituted 1,3,6-triazabicyclo[3.1.0]hexanes, **8**, 1497

Photochromic dihetarylethenes. 13. Optimization of conditions for the acylation of 2,5-dimethylthiophene with squaric acid dichloride, **8**, 1510

Reactions of 5-dihydrocotarnyl-1,3-dimethylbarbituric acid and other cotarnine derivatives with 1,3-dimethylbarbituric acid. X-ray diffraction analysis of a 5,5-spiro derivative of 1,3-dimethylbarbituric acid, **8**, 1540

Anilinomethylidene derivatives of cyclic 1,3-dicarbonyl compounds in the synthesis of new sulfur-containing pyridines and quinolines, **8**, 1556

2-Phenyl-1-boraadamantane complexes. Crystal structure and use in the synthesis of cage compounds, **8**, 1562

Reactions of pyrrole-2,5-dicarbaldehyde with 2-aminodiphenylamine in the presence of nickel and cobalt trimethylacetates, **8**, 1575

Formation of cobalt(III) cations with semiquinonediimine ligands, **8**, 1581

Single-, double-, and triple-charged cations based on iron-subgroup decamethylmetallocenes (review), **9**, 1616

Crystal structure and fluorescence properties of *p*-nitrobenzoylanisoylmethane and its complex with boron difluoride, **9**, 1715

Photochromic dihetarylethenes. 17. Synthesis and photochromic properties of dithienylethenes containing new heterocyclic bridging fragments, **9**, 1731

Selected properties of bi- and trinuclear complexes prepared by the reactions of Ru₃(CO)₁₂ with β-substituted oxadienes, **9**, 1754

Reaction of 3-(*N*-phenylamino)-1-*p*-tolylprop-2-en-1-one with Ru₃(CO)₁₂, **9**, 1771

Synthesis and crystal structures of supramolecular adducts of molybdenum and tungsten selenide aqua complexes with macrocyclic cavitand cucurbituril, **10**, 1800

Reactions of cyclic enehydrazino ketones with arylidene-malononitriles. Synthesis of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1862

Synthesis of 12-aryl-1-oxo-1,2,3,4,5,12-hexahydro-indolo[2,1-*b*]quinazoline-6-carbonitriles by recyclization of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1869

Synthesis and properties of ferrocenylalkyl derivatives of indazole, **10**, 1894

Synthesis and crystal structure of the nanosized supramolecular Sm^{III} complex with macrocyclic cavitand cucurbituril {[Sm(H₂O)₄]₂(C₃₆H₃₆N₂₄O₁₂)₃}Br₆ · 44H₂O, **10**, 1915

First example of the cluster ammine complex [Re₆Se₇Br(NH₃)₆]³⁺: synthesis and structure of the [Re₆Se₇Br(NH₃)₆][Re₆Se₇BrBr₆] · 12H₂O salt, **10**, 1919

(Arene)ruthenium complexes with the monoanionic carborane ligand [9-SMe₂-7,8-C₂B₉H₁₀]⁻, **10**, 1928

Study of alkaloids of the Siberian and Altai flora. 8. Crystal and molecular structure of elatidal methylimine hydrate, **10**, 1965

The Mills—Nixon and anomeric effects in 2,3-dihydro-1*H*-1,3,2-benzodiazaphospholes: a gas-phase electron diffraction study of C₆H₄(NMe)₂PCL using quantum-chemical data and "a priori" force field, **11**, 2014

Cyclization of *O*-benzoyl-β-piperidinopropionamidoximes to form 5-phenyl-3-(β-piperidino)ethyl-1,2,4-oxadiazoles, **11**, 2100

Characteristic features of intra- and intermolecular interactions in crystals of pyrrole-2-carbaldehyde isonicotinoyl hydrazone and its hydrate, **12**, 2224

One-step synthesis of substituted 2-amino-4*H*-chromenes and 2-amino-4*H*-benzo[*f*]chromenes. Molecular and crystal structure of 2-amino-3-cyano-6-hydroxy-4-phenyl-4*H*-benzo[*f*]chromene, **12**, 2238

Synthesis and structure of the Co₃(μ,η²-OOCBu^t)₂(μ-OOCBu^t)₄(NEt₃)₂ complex containing a linear metal core, **12**, 2310

Molybdenum compounds

Luminescence of salts and copolymers containing the (Mo^{VI}Cl₈)⁴⁺ cluster, **6**, 994

Metathetical imidation of dioxobis(dimethyldithiocarbamate)molybdenum with *o*-substituted *N*-sulfinylanilines, **6**, 1075

Synthesis and crystal structures of supramolecular adducts of molybdenum and tungsten selenide aqua complexes with macrocyclic cavitand cucurbituril, **10**, 1800

Monocycloadducts

Cycloaddition to buckminsterfullerene C₆₀: advancements and future prospects (review), **3**, 367

Mononitroalkanes

Structure and vibrational spectra of mononitroalkanes, **6**, 940

Mononucleotide

Synthesis of phosphamide conjugates of 5'-mononucleotides with carcinine and its analogs, **10**, 1940

Monose acylhydrazones

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

Monose oximes

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

Monothiooxamides

New approach to the synthesis of 2-carbamoylbenzothiazoles, **1**, 144

Monte Carlo method

Effect of conformational rigidity on the glass transition and initial decomposition temperatures of polyimides, **5**, 820

Morphology

ESR study of mechanism of polyaniline conductivity, **12**, 2216

Mukayama reaction

Synthesis of phosphamide conjugates of 5'-mononucleotides with carcinine and its analogs, **10**, 1940

Mutant forms

Comparative study of horseradish mutant forms by radio-enzymology, **5**, 887

Mössbauer spectroscopy

Dynamics of probe in network of polymeric cation exchanger studied by Fourier transform analysis of Mössbauer spectra, **12**, 2196

N

Nanoparticles

Dynamics of probe in network of polymeric cation exchanger studied by Fourier transform analysis of Mössbauer spectra, **12**, 2196

Nanotubes

Effect of local strain on the reactivity of carbon nanotubes, **5**, 764

Naphthalene

Analysis of vibrational spectra of naphthalene, deuterio-naphthalenes, and chromium (η^6 -naphthalene)tricarbonyl based on density functional calculations, **9**, 1656

Naphthalenediols

One-step synthesis of substituted 2-amino-4*H*-chromenes and 2-amino-4*H*-benzo[*f*]chromenes. Molecular and crystal structure of 2-amino-3-cyano-6-hydroxy-4-phenyl-4*H*-benzo[*f*]chromene, **12**, 2238

Naphthol

One-step synthesis of substituted 2-amino-4*H*-chromenes and 2-amino-4*H*-benzo[*f*]chromenes. Molecular and crystal structure of 2-amino-3-cyano-6-hydroxy-4-phenyl-4*H*-benzo[*f*]chromene, **12**, 2238

Nef reaction

Electrooxidative transformation of unsubstituted and substituted nitro hydrocarbons into carbonyl compounds, **8**, 1460

Nenitzescu reaction

α -Oxolactam enamines as new synthons in the Nenitzescu reaction, **10**, 1886

Neodymium compounds

Specific chemical behavior of Nd^{III} and Dy^{III} iodides in reactions with aromatic compounds, **10**, 1909

Luminescence of lanthanides in complexes with chromophoric crown ethers, **12**, 2303

Nickel compounds

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

Electrochemical arylation of cobalt and nickel chelates with diphenyliodonium salts, **1**, 85

Electrocatalytic reactions involving the Ni^{II}–Zn^{II}–2,2′-bipyridine system, **2**, 269

Redox properties of N₂S₂-type nickel complexes with aromatic ligands. Crystal structure of [1,2-C₆H₄(SMe)NH₂]₂Ni²⁺(MeCN)₂•2ClO₄⁻, **3**, 467

Synthesis of 3-acetyl-4-amino-6-arylpyran-2-ones and ethyl 7-aryl-4,5(1*H*,5*H*)-dioxopyrano[4,3-*b*]pyridine-2-carboxylates, **3**, 503

The reactivity of 2,2′-bipyridine complexes in the electrochemical reduction of organohalides, **5**, 796

On the reactions of aroylacetonitriles with acetoacetates, **8**, 1545

Reactions of pyrrole-2,5-dicarbaldehyde with 2-aminodiphenylamine in the presence of nickel and cobalt trimethylacetates, **8**, 1575

Halo-substituted (*S*)-*N*-(2-benzoylphenyl)-1-benzylpyrrolidine-2-carboxamides as new chiral auxiliaries for the asymmetric synthesis of (*S*)- α -amino acids, **8**, 1593

Cationic Pd^{II}, Ni^{II}, and Ru^{II} complexes in the synthesis of alternating copolymers of CO with vinyl monomers (review), **9**, 1605

Synthesis and structures of nickel(II) complexes with thioether-containing β -aminovinyl ketones, **10**, 1924

The influence of the sacrificial anode nature on the mechanism of electrochemical arylation and alkylation of white phosphorus, **11**, 2059

Alkylation of acetylene by *tert*-butyl alcohol, **11**, 2134

Crystal structure and thermal stability of Ni_{151.5}Pb₂₄S₉₂. Search for selenium- and tellurium-containing analogs, **12**, 2139

Spin exchange between transition metal complexes and nitroxyl radicals in nonaqueous media, **12**, 2207

Nitramines

Spectra and structure of mercury derivatives of primary nitramines, **6**, 1071

Nucleophilic substitution in the furazan series. Reactions of nitrofurazans with ammonia, **8**, 1533

Nitrates

Synthesis and structures of nitroxylalkyl methylphosphonates, **1**, 157

Exogenous donors of nitric oxide (a chemical aspect) (review), **8**, 1375

Quantum-chemical study of supramolecular complexes (DPyEt)_{*n*}(AgNO₃)_{*m*}, **12**, 2145

The first example of heterolytic fragmentation of organic nitrates of a heterofunctional series, **12**, 2306

Nitration

Synthesis of 1,2,4-triazolium 4*N*-nitroimides by the nitration of 1-substituted 4-amino-1,2,4-triazolium nitrates, **3**, 499

2-Polyfluoroalkylchromones. 12. Nitration of 5,7-dimethyl-2-polyhaloalkylchromones and complete assignment of signals in the ¹H and ¹³C NMR spectra of 5,7-dimethyl-2-trifluoromethylchromone and its mono- and dinitro derivatives, **10**, 1817

Nitration and bromination of benzo-1,2,3,4-tetrazine 1,3-dioxides, **10**, 1841

2-Polyfluoroalkylchromones. 13. Synthesis and nitration of 6,8-dibromo-2-trifluoromethylchromone, **10**, 1954

Nitric oxides

Exogenous donors of nitric oxide (a chemical aspect) (review), **8**, 1375

Nitric oxide synthase inhibitors: biology and chemistry (review), **11**, 1973

Nitrides

Crystalline carbon nitrides: thin films and bulk samples, **9**, 1633

Nitrile imines

Reactions of 2-(2-chloro-4,5-dihydro-3-furyl)-1,3-diphenyl-1,3-diaza-2 λ^3 -phospholidine with nitrile imines, **6**, 1045

Nitriles

Reactions of dibenzylphosphine oxide with α,β -unsaturated nitriles: synthesis of aminophospholene oxides, **4**, 671

Spirocyclohexadienones. 5. Synthesis of 2-R-7a-methyl-3-(spirocyclohexa-2,5-dien-4-one)perhydro-1-indolines, **4**, 709

Three-component synthesis of 3,4-dihydroisoquinoline derivatives, **5**, 844

Spirocyclohexadienones. 6. Three-component synthesis of 1-R-3,3-dimethyl-2-azaspiro[4.5]deca-1,6,9-trien-8-ones, **5**, 894

The Mn(acac)₃-RCN-CCl₄ system as a new efficient reagent for the oxidation of secondary alcohols into ketones, **6**, 1065

Synthesis of substituted bis(3,3-dialkyl-3,4-dihydro-1-isoquinolyl)methanes, **7**, 1303

Synthesis of indole-containing analogs of (1*R*)-*cis*-chrysanthemic acid and *N*-substituted (1*R*)-*cis*-chrysanthemylamines, **7**, 1308

N- and *O*-Alkylation of 3-indolylcyclopropylacetic acid derivatives, **10**, 1829

Synthesis of 1-substituted (*R,S*)-8-(2-methoxy-5-methylphenyl)-3,3,9-trimethyl-2-azaspiro[4.5]deca-1,7-dien-6-ones, **12**, 2234

Nitrites

Synthesis of carbamoylformhydroxymoyl chlorides and study of their reactivities, **8**, 1504

Nitro compounds

Chemistry of *N,N*-bis(silyloxy)enamines. 4. Study of the reactions of *N,N*-bis(silyloxy)enamines with 1,3-diones, **8**, 1455

Electrooxidative transformation of unsubstituted and substituted nitro hydrocarbons into carbonyl compounds, **8**, 1460

Oxidative coupling of the azide ion with anions of primary nitroalkanes. Synthesis of 1-azido-1-nitroalkanes, **8**, 1466

New rearrangement of benzo[*d*]isoxazoles: recyclization of 4-R-6-nitrobenzo[*d*]isoxazole-3-carbaldehyde arylhydrazones into 2-aryl-4-(2-hydroxy-4-nitro-6-R-phenyl)-1,2,3-triazoles, **8**, 1519

Nitro groups

Influence of the position of the nitro group on the structural and spectroscopic characteristics of *N'*-(nitrobenzylidene)isonicotinic hydrazides in the crystalline state, **1**, 99

2-Polyfluoroalkylchromones. 12. Nitration of 5,7-dimethyl-2-polyhaloalkylchromones and complete assignment of signals in the ¹H and ¹³C NMR spectra of 5,7-dimethyl-2-trifluoromethylchromone and its mono- and dinitro derivatives, **10**, 1817

Nitroalkanes

Synthesis of α -alkyl- and α,α -dialkyl- β -phenyltryptamines, **1**, 185

Oxidative coupling of the azide ion with anions of primary nitroalkanes. Synthesis of 1-azido-1-nitroalkanes, **8**, 1466

Nitroarenes

Palladium nitrosoarene complexes in reductive carbonylation of nitroarenes, **12**, 2286

Nitrobenzenes

Selective reduction of the nitro group in the presence of the azoxy group. Synthesis of 2-(alkyl-*NNO*-azoxy)anilines, **2**, 311

Nitrobenzoylanisoylmethanes

Crystal structure and fluorescence properties of *p*-nitrobenzoylanisoylmethane and its complex with boron difluoride, **9**, 1715

***N'*-(Nitrobenzylidene)isonicotinic hydrazides**

Influence of the position of the nitro group on the structural and spectroscopic characteristics of *N'*-(nitrobenzylidene)isonicotinic hydrazides in the crystalline state, **1**, 99

Nitrocyclohexane

Electrooxidative transformation of unsubstituted and substituted nitro hydrocarbons into carbonyl compounds, **8**, 1460

Nitroethylbenzenes

Electrooxidative transformation of unsubstituted and substituted nitro hydrocarbons into carbonyl compounds, **8**, 1460

Nitrofurazans

Nucleophilic substitution in the furazan series. Reactions of nitrofurazans with ammonia, **8**, 1533

Nitrogen

Crystalline carbon nitrides: thin films and bulk samples, **9**, 1633

Nitrogen-containing compounds

E-Z Isomerization of 2-methylenethiazolidin-4-ones, **7**, 1292

Cationic Pd^{II}, Ni^{II}, and Ru^{II} complexes in the synthesis of alternating copolymers of CO with vinyl monomers (review), **9**, 1605

Synthesis of 1-substituted (*R,S*)-8-(2-methoxy-5-methylphenyl)-3,3,9-trimethyl-2-azaspiro[4.5]deca-1,7-dien-6-ones, **12**, 2234

5-Nitroheptan-2-one

Electrooxidative transformation of unsubstituted and substituted nitro hydrocarbons into carbonyl compounds, **8**, 1460

Nitrohydrocarbons

Electrooxidative transformation of unsubstituted and substituted nitro hydrocarbons into carbonyl compounds, **8**, 1460

Nitromethylbenzene

Electrooxidative transformation of unsubstituted and substituted nitro hydrocarbons into carbonyl compounds, **8**, 1460

Nitronium tetrafluoroborate

Synthesis of 1,2,4-triazolium 4*N*-nitroimides by the nitration of 1-substituted 4-amino-1,2,4-triazolium nitrates, **3**, 499

1-(4-Nitrophenyl)-3-phenyl-1,4-dihydro-1,2,4-benzotriazine

Electron spin and electron nuclear double resonances of the stable 1-(4-nitrophenyl)-3-phenyl-1,4-dihydro-1,2,4-benzotriazin-4-yl free radical, **10**, 1796

1-(4-Nitrophenyl)-3-phenyl-1,4-dihydro-1,2,4-benzotriazin-4-yl

Electron spin and electron nuclear double resonances of the stable 1-(4-nitrophenyl)-3-phenyl-1,4-dihydro-1,2,4-benzotriazin-4-yl free radical, **10**, 1796

 β -Nitropropylbenzene

Electrooxidative transformation of unsubstituted and substituted nitro hydrocarbons into carbonyl compounds, **8**, 1460

Nitrosoalkenes

Chemistry of *N,N*-bis(silyloxy)enamines. 4. Study of the reactions of *N,N*-bis(silyloxy)enamines with 1,3-diones, **8**, 1455

Nitrosoarenes

Selective reduction of the nitro group in the presence of the azoxy group. Synthesis of 2-(alkyl-*NNO*-azoxy)anilines, **2**, 311

Palladium nitrosoarene complexes in reductive carbonylation of nitroarenes, **12**, 2286

Nitroxide radicals

DNA modification by *cis*-diaminoplatinum(II) complexes with aminonitroxide ligands, **6**, 1058

Nitroxylalkyl methylphosphonates

Synthesis and structures of nitroxylalkyl methylphosphonates, **1**, 157

Nitroxyl radicals

Cross-coupling of aryl iodides with paramagnetic terminal acetylenes derived from 4,4,5,5-tetramethyl-2-imidazoline-1-oxyl 3-oxide, **1**, 128

Addition of Me_2^+CCN , Me_2^+CPh , and $\text{CCl}_3\text{CH}_2^+\text{CHPh}$ radicals to fullerene C_{60} , **2**, 240

NMR spectroscopy, two-dimensional

Synthesis of 3-acetyl-4-amino-6-arylpyran-2-ones and ethyl 7-aryl-4,5(1*H*,5*H*)-dioxopyrano[4,3-*b*]pyridine-2-carboxylates, **3**, 503

Synthesis and properties of [1,4]diazepino[6,5-*b*]indoles, **3**, 506

Steroid compounds from the starfish *Lysastrosoma anthosticta* collected in the Sea of Japan, **3**, 535

High-resolution and cross-polarization magic angle spinning NMR studies of tricarbonylchromium complexes with polycyclic aromatic ligands (review), **6**, 907

Potentially hexadentate bisazine dioximate ligands: "correct" synthetic procedure and encapsulation reactions of the iron(II) ion, **6**, 1015

Synthesis of nitrobenzoazacrown compounds by ring transformations of nitrobenzocrown ethers, **7**, 1335

Synthesis of 1-substituted (*R,S*)-8-(2-methoxy-5-methylphenyl)-3,3,9-trimethyl-2-azaspiro[4.5]deca-1,7-dien-6-ones, **12**, 2234

Steroid polyols from the Far-Eastern starfish *Henricia sanguinolenta*, **12**, 2295

 ^{11}B NMR spectroscopy

Reaction of ruthenacarborane with trifluoroacetoxymercuroferracarborane, **3**, 517

 ^{13}C NMR spectroscopy

New unsymmetrical difluoroaromatic compounds and estimation of their reactivities in nucleophilic substitution, **1**, 117

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

^1H , ^{13}C , and ^{14}N NMR study of 3-methylfurazans with nitrogen-containing substituents at position 4, **2**, 290

Dipole-stabilized carbanions in the series of cyclic aldonitrones. 3. The influence of the configuration of the nitron group on H—D exchange of the methine hydrogen atom and metallation of aldonitrones, **2**, 297

Selective reduction of the nitro group in the presence of the azoxy group. Synthesis of 2-(alkyl-*NNO*-azoxy)anilines, **2**, 311

Cascade cycloaddition reactions involving dimethylhydrazones of α -substituted acroleins, **2**, 326

Reactions of carbanions of bis(dialkoxyphosphoryl)bromomethane with fullerenes C_{60} and C_{70} , **2**, 337

Stereocontrolled synthesis of *trans*-2-hydroxymethyl-3-methylcyclopentanone from (*S*)-(+)-citronellene, **2**, 359

Synthesis of 1,2,4-triazolium 4-*N*-nitroimides by the nitration of 1-substituted 4-amino-1,2,4-triazolium nitrates, **3**, 499

Synthesis and properties of [1,4]diazepino[6,5-*b*]indoles, **3**, 506

Synthesis of chromenes with isoprenoid side chains and their selective ozonolysis, **3**, 526

Study of alkaloids of the Siberian and Altai flora. 7. Synthesis of 18-amino-18-deoxy derivatives of elatidine, **3**, 531

Steroid compounds from the starfish *Lysastrosoma anthosticta* collected in the Sea of Japan, **3**, 535

New tungsten carbyne complexes containing the triphenylgermyl and triphenylstannyl groups at the carbyne carbon atom (Bu^tO)₃W \equiv C—EPh₃ (E = Ge, Sn), **3**, 552

Reactions of *N,N*-(dialkyl)arylthioacetamides with dialkyl acetylenedicarboxylates, **4**, 653

Transetherification of difurazanyl ethers as a route to unsymmetrical derivatives of difurazanyl ether, **4**, 659

Heteroorganic betaines. 8. Synthesis and structures of silicon- and germanium-containing organoarsenic betaines $\text{R}^1_3\text{As}^+-\text{CR}^2\text{R}^3-\text{EMe}_2-\text{S}^-$ (E = Si, Ge), **4**, 678

Synthesis of 6(*E*)- and 6(*Z*)-(3-ethoxycarbonylpropyl)-oximes of 16 α ,17 α -cyclohexanopregn-4-ene-3,6,20-trione and study of their interaction with proteins of the rat uterine cytosol and blood serum, **4**, 703

Spirocyclohexadienones. 5. Synthesis of 2-*R*-7a-methyl-3-(spirocyclohexa-2,5-dien-4-one)perhydro-1-indolines, **4**, 709

New heteroorganic betaines containing the $(^+)\text{E}^{15}-\text{C}-\text{E}^{14}-\text{X}^{(-)}$ and $(^+)\text{E}^{15}-\text{C}-\text{E}^{14(-)}$ structural fragments ($\text{E}^{15} = \text{P, As}$; $\text{E}^{14} = \text{Si, Ge, Sn}$; $\text{X} = \text{C, S, O, NR}$) (review), **5**, 721

High-resolution and cross-polarization magic angle spinning NMR studies of tricarbonylchromium complexes with polycyclic aromatic ligands (review), **6**, 907

Potentially hexadentate bisazine dioximate ligands: "correct" synthetic procedure and encapsulation reactions of the iron(II) ion, **6**, 1015

Activated bis- and tetrafluoroaromatic compounds containing bis-phenylquinoxaline fragments, **6**, 1039

2-Polyfluoroalkylchromones. 10. Synthesis of regioisomeric 3-(2-hydroxyaryl)-5-polyfluoroalkyl- and 5-(2-hydroxyaryl)-3-polyfluoroalkylisoxazoles and determination of their structures by ^1H , ^{19}F , and ^{13}C NMR spectroscopy, **7**, 1270

2-Polyfluoroalkylchromones. 11. Synthesis and structures of 5-hydroxy-3-(2-hydroxyaryl)-5-polyfluoroalkyl- Δ^2 -pyrazolines and 3(5)-(2-hydroxyaryl)-5(3)-polyfluoroalkylpyrazoles, **7**, 1280

Synthesis of 1-iodo-1,2,3,4,4a,9a-hexahydrocarbazoles and their isomerization into 3-iodo-2,4-propano-1,2,3,4-tetrahydroquinolines, **7**, 1329

Synthesis of nitrobenzoazacrown compounds by ring transformations of nitrobenzocrown ethers, **7**, 1335

Synthesis and molecular structure of the first vinylidene complex $[\text{Cp}(\text{CO})_2\text{MnCu}(\mu\text{-C}=\text{CHPh})(\mu\text{-Cl})_2]$ with the Mn—Cu bond, **7**, 1339

Synthesis of a single isomer of the bis-adduct of isocyanurato-substituted azide with [60]fullerene, **8**, 1491

Diastereoselective synthesis of substituted 1,3,6-triazabicyclo[3.1.0]hexanes, **8**, 1497

Photochromic dihetarylethenes. 14. Synthesis of symmetrical and unsymmetrical dihetarylcylobutene-1,2-diones, **8**, 1515

New rearrangement of benzo[*d*]isoxazoles: recyclization of 4-*R*-6-nitrobenzo[*d*]isoxazole-3-carbaldehyde arylhydrazones into 2-aryl-4-(2-hydroxy-4-nitro-6-*R*-phenyl)-1,2,3-triazoles, **8**, 1519

Nucleophilic substitution in the furazan series. Reactions of nitrofurazans with ammonia, **8**, 1533

Reactions of 5-dihydrocotarnyl-1,3-dimethylbarbituric acid and other cotarnine derivatives with 1,3-dimethylbarbituric acid. X-ray diffraction analysis of a 5,5-spiro derivative of 1,3-dimethylbarbituric acid, **8**, 1540

Reactions between germylenes (silylenes) and phosphalkenes: an experimental and theoretical study. Preparation of the first representative of germaphosphacyclopentanes, **8**, 1568

New synthesis of serricornin, the sex pheromone of the cigarette beetle (*Lasioderma serricorne*), **8**, 1600

Single-, double-, and triple-charged cations based on iron-subgroup decamethylmetallocenes (review), **9**, 1616

Synthesis of 4-acyl(alkoxycarbonyl)-5-fluoroalkyl-3,5-dihydroxyfuran-2(*5H*)-ones, **9**, 1727

Synthesis and hydroxydeamination in the series of 6-aryl- and 6-benzoimidazolyl-7-aminoazolo[5,1-*c*]-1,2,4-triazines, **9**, 1737

2-Polyfluoroalkylchromones. 12. Nitration of 5,7-dimethyl-2-polyhaloalkylchromones and complete assignment of signals in the ^1H and ^{13}C NMR spectra of 5,7-dimethyl-2-

trifluoromethylchromone and its mono- and dinitro derivatives, **10**, 1817

α -Oxolactam enamines as new synthons in the Nenitzescu reaction, **10**, 1886

Triterpene glycosides from *Pulsatilla chinensis*, **10**, 1945

2-Polyfluoroalkylchromones. 13. Synthesis and nitration of 6,8-dibromo-2-trifluoromethylchromone, **10**, 1954

Synthesis of β -trifluoroacetyl-substituted vinyl sulfones and vinyl sulfides, **11**, 2080

Cyclization of *O*-benzoyl- β -piperidinopropionamidoximes to form 5-phenyl-3-(β -piperidino)ethyl-1,2,4-oxadiazoles, **11**, 2100

Sulfur ylides. 12. Optically active keto stabilized sulfur ylide obtained from L-proline: synthesis and study, **12**, 2230

Synthesis of 1-substituted (*R,S*)-8-(2-methoxy-5-methylphenyl)-3,3,9-trimethyl-2-azaspiro[4.5]deca-1,7-dien-6-ones, **12**, 2234

A practical method for synthesis of stable phosphorus ylides in aqueous media, **12**, 2244

Synthesis and transformations of metallacycles. 28. Reactions of allenes with EtAlCl_2 and Et_2AlCl catalyzed by Ti and Zr complexes, **12**, 2255

Steroid polyols from the Far-Eastern starfish *Henricia sanguinolenta*, **12**, 2295

^{19}F NMR spectroscopy

New unsymmetrical difluoroaromatic compounds and estimation of their reactivities in nucleophilic substitution, **1**, 117

1,2,4-Triazino[5,6,1-*i,j*]quinolines: a new type of tricyclic analogs of fluoroquinolones, **4**, 663

Condensation of polyfluorinated β -diimines with aromatic aldehydes, **4**, 712

New heteroorganic betaines containing the $(^+)\text{E}^{15}\text{-C-E}^{14}\text{-X}^{(-)}$ and $(^+)\text{E}^{15}\text{-C-E}^{14}\text{-}$ structural fragments ($\text{E}^{15} = \text{P, As}$; $\text{E}^{14} = \text{Si, Ge, Sn}$; $\text{X} = \text{C, S, O, NR}$) (review), **5**, 721

Activated bis- and tetrafluoroaromatic compounds containing bis-phenylquinoxaline fragments, **6**, 1039

2-Polyfluoroalkylchromones. 10. Synthesis of regioisomeric 3-(2-hydroxyaryl)-5-polyfluoroalkyl- and 5-(2-hydroxyaryl)-3-polyfluoroalkylisoxazoles and determination of their structures by ^1H , ^{19}F , and ^{13}C NMR spectroscopy, **7**, 1270

Synthesis of 4-acyl(alkoxycarbonyl)-5-fluoroalkyl-3,5-dihydroxyfuran-2(*5H*)-ones, **9**, 1727

Synthesis and hydroxydeamination in the series of 6-aryl- and 6-benzoimidazolyl-7-aminoazolo[5,1-*c*]-1,2,4-triazines, **9**, 1737

^{123}Sb NQR and ^{19}F NMR study of potassium, rubidium, and cesium heptafluorodiantimonates(III), **11**, 1996

A convenient synthesis of 3,3,3-trifluoroalanine derivatives, **11**, 2136

^1H NMR spectroscopy

Synthesis and structures of nitroxyalkyl methylphosphonates, **1**, 157

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

- Synthesis and redox properties of bis-ferrocenylethynyl derivatives of bis(dimethylphosphinoethane)manganese, **1**, 170
- Unexpected synthesis of 6-amino-2,3-dihydro-4-pyrone-3-spirocyclohexane, **1**, 181
- Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205
- ^1H , ^{13}C , and ^{14}N NMR study of 3-methylfurazans with nitrogen-containing substituents at position 4, **2**, 290
- Dipole-stabilized carbanions in the series of cyclic aldoinitrones. 3. The influence of the configuration of the nitron group on H—D exchange of the methine hydrogen atom and metallation of aldonitrones, **2**, 297
- Selective reduction of the nitro group in the presence of the azoxy group. Synthesis of 2-(alkyl-*NNO*-azoxy)anilines, **2**, 311
- Synthesis of crown-containing 2-styrylbenzothiazoles. Effect of alkali metal cations on the condensation of crown-ether benzaldehydes with 2-methylbenzothiazole, **2**, 319
- Cascade cycloaddition reactions involving dimethylhydrazones of α -substituted acroleins, **2**, 326
- Reactions of carbanions of bis(dialkoxyphosphoryl)bromomethane with fullerenes C_{60} and C_{70} , **2**, 337
- 1-Thiocarbamoyl(ferrocenyl)-4,5-dihydropyrazoles, **2**, 342
- Synthesis and the crystal structure of the triosmium cluster with the μ -dehydrobenzene ligand, $\text{Os}_3(\mu\text{-H})_2(\text{CO})_7(\mu\text{-C}_6\text{H}_4)\{\mu_3\text{-Ph}_2\text{PCH}_2\text{P}(\text{C}_6\text{H}_4)\text{Ph}\}$, **2**, 350
- Ring opening in epichlorohydrin and β -methylepichlorohydrin under the action of the $[\text{PtCl}_4]^{2-}$ anion in aqueous solutions, **2**, 354
- Stereocontrolled synthesis of *trans*-2-hydroxymethyl-3-methylcyclopentanone from (*S*)-(+)-citronellene, **2**, 359
- First multicomponent synthesis of tricyclic hydrogenated pyridines, **2**, 362
- Binuclear and polynuclear transition metal complexes with macrocyclic ligands. 2. New macrocyclic Schiff's base in the reaction of 4-*tert*-butyl-2,6-diformylphenol with 1,2-diaminobenzene. Synthesis and structural, spectroscopic, and theoretical study, **3**, 488
- Synthesis of 1,2,4-triazolium 4*N*-nitroimides by the nitration of 1-substituted 4-amino-1,2,4-triazolium nitrates, **3**, 499
- Synthesis and properties of [1,4]diazepino[6,5-*b*]indoles, **3**, 506
- Reaction of ruthenacarborane with trifluoroacetoxymercuroferracarborane, **3**, 517
- Synthesis of chromenes with isoprenoid side chains and their selective ozonolysis, **3**, 526
- Study of alkaloids of the Siberian and Altai flora. 7. Synthesis of 18-amino-18-deoxy derivatives of elatidine, **3**, 531
- Steroid compounds from the starfish *Lysastrosoma anthosticta* collected in the Sea of Japan, **3**, 535
- Synthesis of 2- and 3-pyridinyl(aryl)methanones, **3**, 540
- New tungsten carbyne complexes containing the triphenylgermyl and triphenylstannyl groups at the carbyne carbon atom $(\text{Bu}^t\text{O})_3\text{W}\equiv\text{C}-\text{EPh}_3$ (E = Ge, Sn), **3**, 552
- Reactions of *N,N*-(dialkyl)arylthioacetamides with dialkyl acetylenedicarboxylates, **4**, 653
- Transetherification of difurazanyl ethers as a route to unsymmetrical derivatives of difurazanyl ether, **4**, 659
- 1,2,4-Triazino[5,6,1-*i,j*]quinolines: a new type of tricyclic analogs of fluoroquinolones, **4**, 663
- First example of the formation of bipolar spiro σ -complexes from 6-bromo-5,7-dinitrobenzo[*e*]-1,2,3,4-tetrazine 1,3-di-*N*-oxide, **4**, 668
- Heteroorganic betaines. 8. Synthesis and structures of silicon- and germanium-containing organoarsenic betaines $\text{R}^1_3\text{As}^+-\text{CR}^2\text{R}^3-\text{EMe}_2-\text{S}^-$ (E = Si, Ge), **4**, 678
- Selective preparation of glycosyl sulfone or glycal by treatment of phenyl thioglycoside of *N*-acetylneuraminic acid with *m*-chloroperbenzoic acid, **4**, 698
- Synthesis of 6(*E*)- and 6(*Z*)-(3-ethoxycarbonylpropyl)-oximes of 16 α ,17 α -cyclohexanopregn-4-ene-3,6,20-trione and study of their interaction with proteins of the rat uterine cytosol and blood serum, **4**, 703
- Spirocyclohexadienones. 5. Synthesis of 2-R-7a-methyl-3-(spirocyclohexa-2,5-dien-4-one)perhydro-1-indolines, **4**, 709
- Condensation of polyfluorinated β -diimines with aromatic aldehydes, **4**, 712
- New heteroorganic betaines containing the $(^+)E^{15}-C-E^{14}-X^{(-)}$ and $(^+)E^{15}-C-E^{14(-)}$ structural fragments ($E^{15} = \text{P, As}$; $E^{14} = \text{Si, Ge, Sn}$; $X = \text{C, S, O, NR}$) (review), **5**, 721
- Simulation of optical response to complex formation of crown-containing 2-styrylbenzothiazoles with alkaline-earth metals, **5**, 789
- High-resolution and cross-polarization magic angle spinning NMR studies of tricarbonylchromium complexes with polycyclic aromatic ligands (review), **6**, 907
- Potentially hexadentate bisazine dioximate ligands: "correct" synthetic procedure and encapsulation reactions of the iron(II) ion, **6**, 1015
- Reactions of 2-(2-chloro-4,5-dihydro-3-furyl)-1,3-diphenyl-1,3-diaza-2 λ^3 -phospholidine with nitrile imines, **6**, 1045
- VALISA: a new procedure for total lineshape analysis of NMR spectra. Conformational analysis of *trans*-1,2-dibromocyclopentane, **7**, 1222
- 2-Polyfluoroalkylchromones. 10. Synthesis of regioisomeric 3-(2-hydroxyaryl)-5-polyfluoroalkyl- and 5-(2-hydroxyaryl)-3-polyfluoroalkylisoxazoles and determination of their structures by ^1H , ^{19}F , and ^{13}C NMR spectroscopy, **7**, 1270
- 2-Polyfluoroalkylchromones. 11. Synthesis and structures of 5-hydroxy-3-(2-hydroxyaryl)-5-polyfluoroalkyl- Δ^2 -pyrazolines and 3(5)-(2-hydroxyaryl)-5(3)-polyfluoroalkylpyrazoles, **7**, 1280
- Synthesis of 1-iodo-1,2,3,4,4a,9a-hexahydrocarbazoles and their isomerization into 3-iodo-2,4-propano-1,2,3,4-tetrahydroquinolines, **7**, 1329
- Synthesis of 1,3,5-trisubstituted 1,2,4-triazolio-4-nitroimides, **7**, 1332
- Synthesis of nitrobenzoazacrown compounds by ring transformations of nitrobenzocrown ethers, **7**, 1335

- Conceivably the first example of a phase transition in aqueous solutions of oligosaccharide glycosides. Evidence from variable-temperature ^1H NMR and optical rotation measurements for a solution of allyl lactoside, **7**, 1337
- Synthesis of a single isomer of the bis-adduct of isocyanurato-substituted azide with [60]fullerene, **8**, 1491
- Diastereoselective synthesis of substituted 1,3,6-triazabicyclo[3.1.0]hexanes, **8**, 1497
- Synthesis of carbamoylformhydroxymoyl chlorides and study of their reactivities, **8**, 1504
- Photochromic dihetarylethenes. 14. Synthesis of symmetrical and unsymmetrical dihetarylcylobutene-1,2-diones, **8**, 1515
- Nucleophilic substitution in the furazan series. Reactions of nitrofurazans with ammonia, **8**, 1533
- Reactions of 5-dihydrocotarnyl-1,3-dimethylbarbituric acid and other cotarnine derivatives with 1,3-dimethylbarbituric acid. X-ray diffraction analysis of a 5,5-spiro derivative of 1,3-dimethylbarbituric acid, **8**, 1540
- Nitro derivatives of cyclic sulfoximides of the 1,2-benzothiazole series, **8**, 1549
- Anilinomethylidene derivatives of cyclic 1,3-dicarbonyl compounds in the synthesis of new sulfur-containing pyridines and quinolines, **8**, 1556
- Reactions between germynes (silylenes) and phosphalkenes: an experimental and theoretical study. Preparation of the first representative of germaphosphacyclopropanes, **8**, 1568
- New synthesis of serricornin, the sex pheromone of the cigarette beetle (*Lasioderma serricorne*), **8**, 1600
- Single-, double-, and triple-charged cations based on iron-subgroup decamethylmetallocenes (review), **9**, 1616
- Synthesis of 4-acyl(alkoxycarbonyl)-5-fluoroalkyl-3,5-dihydroxyfuran-2(5*H*)-ones, **9**, 1727
- Photochromic dihetarylethenes. 17. Synthesis and photochromic properties of dithienylethenes containing new heterocyclic bridging fragments, **9**, 1731
- Synthesis and hydroxydeamination in the series of 6-aryl- and 6-benzoimidazolyl-7-aminoazolo[5,1-*c*]-1,2,4-triazines, **9**, 1737
- Reaction of 3-(*N*-phenylamino)-1-*p*-tolylprop-2-en-1-one with $\text{Ru}_3(\text{CO})_{12}$, **9**, 1771
- Electron spin and electron nuclear double resonances of the stable 1-(4-nitrophenyl)-3-phenyl-1,4-dihydro-1,2,4-benzotriazin-4-yl free radical, **10**, 1796
- 2-Polyfluoroalkylchromones. 12. Nitration of 5,7-dimethyl-2-polyhaloalkylchromones and complete assignment of signals in the ^1H and ^{13}C NMR spectra of 5,7-dimethyl-2-trifluoromethylchromone and its mono- and dinitro derivatives, **10**, 1817
- Reactions of cyclic enehydrazino ketones with arylidene-malononitriles. Synthesis of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1862
- Synthesis of 12-aryl-1-oxo-1,2,3,4,5,12-hexahydro-indolo[2,1-*b*]quinazoline-6-carbonitriles by recyclization of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1869
- α -Oxolactam enamines as new synthons in the Nenitzescu reaction, **10**, 1886
- Synthesis and structures of nickel(II) complexes with thioether-containing β -aminovinyl ketones, **10**, 1924
- Triterpene glycosides from *Pulsatilla chinensis*, **10**, 1945
- 2-Polyfluoroalkylchromones. 13. Synthesis and nitration of 6,8-dibromo-2-trifluoromethylchromone, **10**, 1954
- Dual reactivity of an intermediate cation formed in the photolysis of dihydroquinolines in methanol, **11**, 2055
- Synthesis of β -trifluoroacetyl-substituted vinyl sulfones and vinyl sulfides, **11**, 2080
- Three-component cyclization of hydroxylamino-substituted quinoline with reactive methylene compounds and formaldehyde: new method for the synthesis of 7-(isoxazolidin-2-yl)-6-fluoroquinolones, **11**, 2106
- Synthesis of 1-(2-polyfluoroacylamino-phenyl)-3-polyfluoroalkylpropane-1,3-diones and 2-polyfluoroalkyl-4-quinolones, **11**, 2109
- A convenient synthesis of 3,3,3-trifluoroalanine derivatives, **11**, 2136
- Sulfur ylides. 12. Optically active keto stabilized sulfur ylide obtained from L-proline: synthesis and study, **12**, 2230
- Synthesis of 1-substituted (*R,S*)-8-(2-methoxy-5-methylphenyl)-3,3,9-trimethyl-2-azaspiro[4.5]deca-1,7-dien-6-ones, **12**, 2234
- A practical method for synthesis of stable phosphorus ylides in aqueous media, **12**, 2244
- Metallation of poly(1-trimethylsilyl-1-prop-1-yne) and poly(vinyltrimethylsilane) with superbases, **12**, 2248
- Synthesis and transformations of metallacycles. 28. Reactions of allenes with EtAlCl_2 and Et_2AlCl catalyzed by Ti and Zr complexes, **12**, 2255
- Synthesis and study of organometallic complexes of octaphenyltetraazaporphyrinatoindium(III), **12**, 2261
- Steroid polyols from the Far-Eastern starfish *Henricia sanguinolenta*, **12**, 2295
- ^2H NMR spectroscopy**
- Metallation of poly(1-trimethylsilyl-1-prop-1-yne) and poly(vinyltrimethylsilane) with superbases, **12**, 2248
- ^{14}N NMR spectroscopy**
- ^1H , ^{13}C , and ^{14}N NMR study of 3-methylfurazans with nitrogen-containing substituents at position 4, **2**, 290
- Selective reduction of the nitro group in the presence of the azoxy group. Synthesis of 2-(alkyl-*NNO*-azoxy)anilines, **2**, 311
- Transetherification of difurazanyl ethers as a route to unsymmetrical derivatives of difurazanyl ether, **4**, 659
- New rearrangement of benzo[*d*]isoxazoles: recyclization of 4-*R*-6-nitrobenzo[*d*]isoxazole-3-carbaldehyde arylhydrazones into 2-aryl-4-(2-hydroxy-4-nitro-6-*R*-phenyl)-1,2,3-triazoles, **8**, 1519
- Nucleophilic substitution in the furazan series. Reactions of nitrofurazans with ammonia, **8**, 1533
- Synthesis of 1-substituted (*R,S*)-8-(2-methoxy-5-methylphenyl)-3,3,9-trimethyl-2-azaspiro[4.5]deca-1,7-dien-6-ones, **12**, 2234

³¹P NMR spectroscopy

Synthesis and structures of nitroxylalkyl methylphosphonates, **1**, 157

Unusual reaction of hexaethylphosphorous triamide with mercuric chloride leading to the formation of metallic mercury, **1**, 191

Reactions of carbanions of bis(dialkoxyphosphoryl)bromomethane with fullerenes C₆₀ and C₇₀, **2**, 337

Reaction of ruthenacarborane with trifluoroacetoxymercuroferracarborane, **3**, 517

Reactions of 2-(2-chloro-4,5-dihydro-3-furyl)-1,3-diphenyl-1,3-diaza-2λ³-phospholidine with nitrile imines, **6**, 1045

Reactions between germylenes (silylenes) and phosphalkenes: an experimental and theoretical study. Preparation of the first representative of germaphosphacyclopropanes, **8**, 1568

Synthesis of phosphamide conjugates of 5'-mononucleotides with carcinine and its analogs, **10**, 1940

Hydrogenation of CO₂ to formic acid in the presence of the Wilkinson complex, **12**, 2165

²⁹Si NMR spectroscopy

Synthesis of dichloro derivatives of linear and cyclic permethyloligosilanes and cyclolinear permethylpolysilanesiloxanes and permethylpolyoxysilane based on them, **1**, 175

New tungsten carbyne complexes containing the triphenylgermyl and triphenylstannyl groups at the carbyne carbon atom (Bu^tO)₃W≡C—EPh₃ (E = Ge, Sn), **3**, 552

Heteroorganic betaines. 8. Synthesis and structures of silicon- and germanium-containing organoarsenic betaines R¹₃As⁺—CR²R³—EMe₂—S⁻ (E = Si, Ge), **4**, 678

New heteroorganic betaines containing the (+)E¹⁵—C—E¹⁴—X⁽⁻⁾ and (+)E¹⁵—C—E¹⁴(⁻) structural fragments (E¹⁵ = P, As; E¹⁴ = Si, Ge, Sn; X = C, S, O, NR) (review), **5**, 721

Reactions between germylenes (silylenes) and phosphalkenes: an experimental and theoretical study. Preparation of the first representative of germaphosphacyclopropanes, **8**, 1568

Synthesis of α,ω-dichloropermethyloligosilanes by reactions of polydimethylsilane with metal chlorides, **9**, 1751

Noradrenaline

Biological efficacy of antisense oligonucleotides complementary to overlapping regions of the mRNA target (review), **7**, 1118

¹²³Sb NQR spectroscopy

¹²³Sb NQR and ¹⁹F NMR study of potassium, rubidium, and cesium heptafluorodiantimonates(III), **11**, 1996

Nuclear magnetic relaxation

Features of nuclear magnetic relaxation of water and benzene molecules during absorption on activated carbons and estimation of pore size distribution in adsorbents, **11**, 2036

Nucleases

Chimeric oligonucleotides based on 2'-O-modified oligoribonucleotides with the terminal 3'-3' internucleotide linkage as potential inhibitors of *MDR1* gene expression, **7**, 1217

Nucleic acids

Sensitized photomodification of oligonucleotide-binding proteins displayed on the eucaryotic cell surface, **7**, 1198

Investigation of surface oligonucleotide-binding proteins of eucaryotic cells by affinity modification with reactive oligonucleotide derivatives, **7**, 1204

Nucleophiles

Reactions of tautomeric quaternary phosphonium salts based on triphenylphosphine and 3-phenylpropargyl bromide with nitrogen nucleophiles, **1**, 148

Reactions of α-fluorine-containing β-functionalized vinyl sulfides with N-nucleophiles, **6**, 1020

Nucleophilic addition

Reactions of dibenzylphosphine oxide with α,β-unsaturated nitriles: synthesis of aminophospholene oxides, **4**, 671

Stereoselective synthesis of *cis*-4,7-disubstituted 4,7-dihydroxy-4,7-dihydro[2.2]paracyclophanes, **8**, 1483

Nucleophilic reagents

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

Study of the reactions of 3-chloro-4-cyanobenzo[*b*][1,6]naphthyridine with nucleophilic reagents, **11**, 2121

Nucleophilic substitution

New unsymmetrical difluoroaromatic compounds and estimation of their reactivities in nucleophilic substitution, **1**, 117

1,2,4-Triazino[5,6,1-*i,j*]quinolines: a new type of tricyclic analogs of fluoroquinolones, **4**, 663

First example of the formation of bipolar spiro σ-complexes from 6-bromo-5,7-dinitrobenzo[*e*]-1,2,3,4-tetrazine 1,3-di-*N*-oxide, **4**, 668

Easy formation of S_N^H products in reactions of indoles and pyrroles with 3-aryl-1,2,4-triazin-5(2*H*)-ones in the presence of tosyl chloride, **6**, 1042

Synthesis of nitrobenzoazacrown compounds by ring transformations of nitrobenzocrown ethers, **7**, 1335

Chemical bonding in isolated molecules and crystals of zwitterionic pentacoordinate silicon chelates, **8**, 1423

Nucleophilic substitution in the furazan series. Reactions of nitrofurazans with ammonia, **8**, 1533

Fluorinated cyclohexadienones as versatile synthons for preparation of organofluorine compounds (review), **10**, 1775

Nucleophilic substitution in benzo-1,2,3,4-tetrazine 1,3-dioxides, **10**, 1849

Synthesis of β-trifluoroacetyl-substituted vinyl sulfones and vinyl sulfides, **11**, 2080

Synthesis of functional 2-substituted 4-phenyl-9*H*-pyrimido[4,5-*b*]indoles, **11**, 2129

O***n*-Octane**

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Octaphenyltetraazaporphyrins

Synthesis and study of organometallic complexes of octaphenyltetraazaporphyrinatoindium(III), **12**, 2261

Oct-1-ene

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Olefins

Ring-closing metathesis of 2,2-diallyl derivatives of pyrrolidine and piperidine: a route to azaspiroheterocyclic structures, **4**, 645

Cp₂TiCl₂-Catalyzed hydroalkylation of α -olefins with Bu^tBr—Et₃Al, **5**, 833

Stereospecific 1,4-*cis*-hydrogenation of conjugated dienes, dienynes, and dienediynes catalyzed by chromium carbonyl complexes in stereocontrolled syntheses of physiologically active olefins (review), **8**, 1341

Oleic acid

Adsorption of surfactants on superfine magnetite, **11**, 2044

Oligodeoxyribonucleotides

10-23 DNA enzymes for targeting *MDR1* mRNA, **7**, 1190

Oligomerization

Photochromic dihetarylethenes. 13. Optimization of conditions for the acylation of 2,5-dimethylthiophene with squaric acid dichloride, **8**, 1510

Oligonucleotides

Oncogene mRNA imaging with ^{99m}Tc-chelator-PNA-peptides (review), **7**, 1083

Site-specific synthetic ribonucleases based on oligonucleotide conjugates with metal-independent organic catalysts of hydrolysis of phosphodiester bonds (review), **7**, 1112

Biological efficacy of antisense oligonucleotides complementary to overlapping regions of the mRNA target (review), **7**, 1118

Thermodynamic parameters of coaxial stacking on stacking hybridization of oligodeoxyribonucleotides, **7**, 1145

Hybridization of antisense oligonucleotides with yeast tRNA^{Phe}: factors determining the efficiency of interaction, **7**, 1156

Cleavage of a DNA fragment by a binary oligonucleotide reagent, **7**, 1171

Sequence-specific RNA cleavage by oligonucleotide-peptide conjugates, **7**, 1177

Directed cleavage of RNA within an imperfect complementary complex by oligonucleotide—bleomycin A₂ conjugates, **7**, 1187

10-23 DNA enzymes for targeting *MDR1* mRNA, **7**, 1190

Sensitized photomodification of oligonucleotide-binding proteins displayed on the eucaryotic cell surface, **7**, 1198

Investigation of surface oligonucleotide-binding proteins of eucaryotic cells by affinity modification with reactive oligonucleotide derivatives, **7**, 1204

Chimeric oligonucleotides based on 2'-*O*-modified oligoribonucleotides with the terminal 3'-3' internucleotide linkage as potential inhibitors of *MDR1* gene expression, **7**, 1217

Oligoribonucleotides

Oligoribonucleotides containing an aminoalkyl group at the N(4) atom of cytosine as precursors of new reagents for site-specific modifications of biopolymers, **7**, 1194

Oligosaccharide

Conceivably the first example of a phase transition in aqueous solutions of oligosaccharide glycosides. Evidence from variable-temperature ¹H NMR and optical rotation measurements for a solution of allyl lactoside, **7**, 1337

Oncogenes

Oncogene mRNA imaging with ^{99m}Tc-chelator-PNA-peptides (review), **7**, 1083

Optical activity

Conceivably the first example of a phase transition in aqueous solutions of oligosaccharide glycosides. Evidence from variable-temperature ¹H NMR and optical rotation measurements for a solution of allyl lactoside, **7**, 1337

Sulfur ylides. 12. Optically active keto stabilized sulfur ylide obtained from L-proline: synthesis and study, **12**, 2230

Orbital interactions

Photo- and thermochromic spiropyran. 21. 8'-Formyl-3,6'-dimethyl-4-oxospiro(3,4-dihydro-2*H*-1,3-benzoxazine-2,2'-[2*H*]chromene) possessing photochromic properties in the solid phase, **3**, 462

Organic halide

The influence of the sacrificial anode nature on the mechanism of electrochemical arylation and alkylation of white phosphorus, **11**, 2059

Organoaluminum compounds

Cp₂TiCl₂-Catalyzed hydroalkylation of α -olefins with Bu^tBr—Et₃Al, **5**, 833

Regioselective splitting of 3-alkyl-1-ethylaluminacyclopentanes with orthoformates as a new route to 1-functionalized 4-methylalkanes, **5**, 901

Synthesis and transformations of metallacycles. 28. Reactions of allenes with EtAlCl₂ and Et₂AlCl catalyzed by Ti and Zr complexes, **12**, 2255

Organoboron compounds

Stereoselective synthesis of *cis*-4,7-disubstituted 4,7-dihydroxy-4,7-dihydro[2.2]paracyclophanes, **8**, 1483

Organogermanium compounds

Heteroorganic betaines. 8. Synthesis and structures of silicon- and germanium-containing organoarsenic betaines R¹As⁺—CR²R³—EMe₂—S⁻ (E = Si, Ge), **4**, 678

Organolithium compounds

Stereoselective synthesis of *cis*-4,7-disubstituted 4,7-dihydroxy-4,7-dihydro[2.2]paracyclophanes, **8**, 1483

Metallation of poly(1-trimethylsilyl-1-prop-1-yne) and poly(vinyltrimethylsilane) with superbases, **12**, 2248

Organometallic compounds

High-resolution and cross-polarization magic angle spinning NMR studies of tricarbonylchromium complexes with polycyclic aromatic ligands (review), **6**, 907

Metallation of poly(1-trimethylsilyl-1-prop-1-yne) and poly(vinyltrimethylsilane) with superbases, **12**, 2248

Organophosphorus compounds

ESR parameters and transformations of the products of reduction of methanofullerenes, **5**, 813

Organosilicon compounds

Ring-closing metathesis of 2,2-diallyl derivatives of pyrrolidine and piperidine: a route to azaspiroheterocyclic structures, **4**, 645

Heteroorganic betaines. 8. Synthesis and structures of silicon- and germanium-containing organoarsenic betaines $R_3As^+-CR^2R^3-EMe_2-S^-$ (E = Si, Ge), **4**, 678

Orthoformates

Regioselective splitting of 3-alkyl-1-ethylaluminumcyclopentanes with orthoformates as a new route to 1-functionalized 4-methylalkanes, **5**, 901

Osmium compounds

Synthesis and the crystal structure of the triosmium cluster with the μ -dehydrobenzene ligand, $Os_3(\mu-H)_2(CO)_7(\mu-C_6H_4)\{\mu_3-Ph_2PCH_2P(C_6H_4)Ph\}$, **2**, 350

Single-, double-, and triple-charged cations based on iron-subgroup decamethylmetallocenes (review), **9**, 1616

Osmocene

Protonation of ferrocene, ruthenocene, and osmocene: a density functional study, **10**, 1900

2-Oxabicyclo[n.4.0]alkenes

A new method for synthesis of *n*-(3-acyloxypropyl)-substituted six- to thirteen-membered alkan-*n*-olides, **10**, 1806

1,2,4-Oxadiazoles

Synthesis of 3-carbamoyl-1,2,4-oxadiazoles, **10**, 1857

1,3,4-Oxadiazoles

Synthesis of carbamoylformhydroxymoyl chlorides and study of their reactivities, **8**, 1504

Oxalyl chloride

Synthesis of 4-acyl(alkoxycarbonyl)-5-fluoroalkyl-3,5-dihydroxyfuran-2(5*H*)-ones, **9**, 1727

Oxathiazoles

Synthesis of carbamoylformhydroxymoyl chlorides and study of their reactivities, **8**, 1504

Oxidation

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

Oxidation of *N*-acyl-2-(cycloalk-1-enyl)anilines with ozone and hydrogen peroxide, **1**, 124

Free radical formation during ethylbenzene oxidation catalyzed by cetyltrimethylammonium bromide, **3**, 449

Synthesis of 2-(imidazolylamino)benzothiazoles, **3**, 547

New approaches to syntheses of diethers and haloethers from cyclopentadiene, **4**, 616

Products of reaction of fullerene C_{60} with fuming sulfuric acid studied by IR and ESR spectroscopy, **4**, 628

ESR study of the thermal decomposition of di-*tert*-butoxy-*tert*-butyl alumotrioxide formed in the reaction of tri-*tert*-butoxyaluminum with *tert*-butyl hydroperoxide, **4**, 638

Selective preparation of glycosyl sulfone or glycal by treatment of phenyl thioglycoside of *N*-acetylneuraminic acid with *m*-chloroperbenzoic acid, **4**, 698

Copolymerization of acetylene with ethylene in the presence of dibenzenetitanium(0), **5**, 817

23-Electron Re_6 metal clusters: syntheses and crystal structures of $(Ph_4P)_3[Re_6S_8(CN)_6]$,

$(Ph_4P)_2(H)[Re_6Se_8(CN)_6] \cdot 8H_2O$, and $(Et_4N)_2(H)[Re_6Te_8(CN)_6] \cdot 2H_2O$, **5**, 866

Catalytic systems based on platinum and heteropoly compounds for oxidation of hydrocarbons with a dioxygen-dihydrogen gaseous mixture, **6**, 975

ESR spectra of products of oxidation of endometallofullerenes $M@C_{82}$ (M = Y, La, Ce, Gd), **6**, 1009

Sulfur ylides. 11. Selected chemical transformations of 1-methylthio-3,4-dihydropyrido[2,1-*a*]isoindole-2,6-dione, **6**, 1035

The $Mn(acac)_3-RCN-CCl_4$ system as a new efficient reagent for the oxidation of secondary alcohols into ketones, **6**, 1065

Directed cleavage of RNA within an imperfect complementary complex by oligonucleotide-bleomycin A_5 conjugates, **7**, 1187

Oxidation of ascorbic acid in the presence of phthalocyanine metal complexes. Chemical aspects of catalytic anticancer therapy. 1. Catalysis of oxidation by cobalt octacarboxyphthalocyanine, **7**, 1231

Exogenous donors of nitric oxide (a chemical aspect) (review), **8**, 1375

Crown-containing spironaphthoxazines and spiropyrans. 3. Synthesis and investigation of the merocyanine form of crown-containing spirobenzothiazolinonaphthoxazine, **8**, 1441

Oxidative coupling of the azide ion with anions of primary nitroalkanes. Synthesis of 1-azido-1-nitroalkanes, **8**, 1466

Nitro derivatives of cyclic sulfoximides of the 1,2-benzothiazole series, **8**, 1549

2-Phenyl-1-boraadamantane complexes. Crystal structure and use in the synthesis of cage compounds, **8**, 1562

Formation of cobalt(III) cations with semiquinonediimine ligands, **8**, 1581

Electron spin and electron nuclear double resonances of the stable 1-(4-nitrophenyl)-3-phenyl-1,4-dihydro-1,2,4-benzotriazin-4-yl free radical, **10**, 1796

Solid-phase oxoalkylation of pyridines and quinolines with 1-methylcycloalkanols under the action of lead tetraacetate, **10**, 1812

Generation of alkyl hypochlorites in oxidation of alcohols with carbon tetrachloride catalyzed by vanadium and manganese compounds, **11**, 2074

Synthesis of β -trifluoroacetyl-substituted vinyl sulfones and vinyl sulfides, **11**, 2080

Study of the reactions of 3-chloro-4-cyanobenzob[*b*][1,6]naphthyridine with nucleophilic reagents, **11**, 2121

The role of pressure in partial oxidation of methane, **12**, 2170

Oxidative addition

Ring opening in epichlorohydrin and β -methyl epichlorohydrin under the action of the $[PtCl_4]^{2-}$ anion in aqueous solutions, **2**, 354

Oxidative hydroxylation

Heterocyclic analogs of pleiadiene. 69. Synthesis and oxidative hydroxylation of 1-alkyl-1,3-diazapyrenium salts, **1**, 139

Oxides

Synthesis and properties of [1,4]diazepino[6,5-*b*]indoles, **3**, 506

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

Investigation of chemisorption properties of the PbO surface, **9**, 1680

Influence of the texture of chromia catalysts on their activity in synthesis of 2-methylthiophene, **9**, 1694

Nitration and bromination of benzo-1,2,3,4-tetrazine 1,3-dioxides, **10**, 1841

Nucleophilic substitution in benzo-1,2,3,4-tetrazine 1,3-dioxides, **10**, 1849

Nitric oxide synthase inhibitors: biology and chemistry (review), **11**, 1973

Oximes

Synthesis of 6(*E*)- and 6(*Z*)-(3-ethoxycarbonylpropyl)-oximes of 16 α ,17 α -cyclohexanopregn-4-ene-3,6,20-trione and study of their interaction with proteins of the rat uterine cytosol and blood serum, **4**, 703

Synthesis and structures of triphenylantimony oximates, **6**, 1051

Oxiranes

8-Hydroxyquinolates of trivalent metals as new catalysts for the reaction of CO₂ with epoxides, **5**, 836

Oxo acids

Oxidation of *N*-acyl-2-(cycloalk-1-enyl)anilines with ozone and hydrogen peroxide, **1**, 124

3-Oxo esters

Synthesis of 4-acyl(alkoxycarbonyl)-5-fluoroalkyl-3,5-dihydroxyfuran-2(5*H*)-ones, **9**, 1727

4-Oxoalkanoic acids

Synthesis of arylidene derivatives of *N*-unsubstituted pyrrolin-2-ones, **1**, 188

Oxoalkylation

Solid-phase oxoalkylation of pyridines and quinolines with 1-methylcycloalkanols under the action of lead tetraacetate, **10**, 1812

Oxoammonium salt

Interaction of 2,2,6,6-tetramethylpiperidine-1-oxyl chlorite with alcohols, **6**, 982

Oxohalides

Reaction of bicyclo[2.2.1]hepta-2,5-diene with the arene-sulfenamide—phosphorus(v) oxohalide system: chemo-, regio-, and stereoselectivity, **8**, 1468

 α -Oxolactams

α -Oxolactam enamines as new synthons in the Nenitzescu reaction, **10**, 1886

6-Oxononano-9-lactone

A new method for synthesis of *n*-(3-acyloxypropyl)-substituted six- to thirteen-membered alkan-*n*-olides, **10**, 1806

2-Oxo-4-phenyl-2,3-dihydro-9*H*-pyrimido[4,5-*b*]indole

Synthesis of functional 2-substituted 4-phenyl-9*H*-pyrimido[4,5-*b*]indoles, **11**, 2129

Oxyethylation

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

Oxygen

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

Catalytic systems based on platinum and heteropoly compounds for oxidation of hydrocarbons with a dioxygen—dihydrogen gaseous mixture, **6**, 975

Oxygen-containing compounds

Estimation of dissociation energies of C—H bonds in oxygen-containing compounds from kinetic data for radical abstraction reactions, **9**, 1641

Ozonization/ozonolysis

Oxidation of *N*-acyl-2-(cycloalk-1-enyl)anilines with ozone and hydrogen peroxide, **1**, 124

Synthesis of chromenes with isoprenoid side chains and their selective ozonolysis, **3**, 526

P**Palladium compounds**

Powder X-ray diffraction study of the double complexes [M(NH₃)₅Cl][M'Cl₄] as precursors of metal powders (M = Ir, Rh, Co; M' = Pt, Pd), **1**, 41

Pd-Catalyzed asymmetric allylation of an *o*-carborane derivative, **3**, 513

Palladium-catalyzed asymmetric allylation and complex formation involving *P,N*-bidentate derivatives of (*S*)-2-(anilinomethyl)pyrrolidine, **3**, 521

Metallation of fullerenes: electrochemical synthesis and voltammetric study of heterometallic C₆₀ and C₇₀ complexes, **8**, 1588

Cationic Pd^{II}, Ni^{II}, and Ru^{II} complexes in the synthesis of alternating copolymers of CO with vinyl monomers (review), **9**, 1605

Synthesis of alkynylbenzo-15-crown-5 ethers, **9**, 1720

First quinine-based aryl phosphite: synthesis and application in the Pd-catalyzed enantioselective rearrangement of allylic thiocarbamate, **9**, 1748

Palladium nitrosoarene complexes in reductive carbonylation of nitroarenes, **12**, 2286

Parabolic model

Influence of the size of the formed cycle on the reactivity of free radicals in cyclization reactions, **6**, 949

Estimation of dissociation energies of C—H bonds in oxygen-containing compounds from kinetic data for radical abstraction reactions, **9**, 1641

[2.2]Paracyclophanes

Stereoselective synthesis of *cis*-4,7-disubstituted 4,7-dihydroxy-4,7-dihydro[2.2]paracyclophanes, **8**, 1483

Paramagnetism

Synthesis and redox properties of bis-ferrocenylethynyl derivatives of bis(dimethylphosphinoethane)manganese, **1**, 170

Sulfurization of polymers. 5. Poly(6-methyl-5-sulfanyl-thieno[2,3-*b*]pyridine-4-thione), poly(thieno[2,3-*b*]azepine-4,5(6*H*)-dithione), and related structures from poly(2-methyl-5-vinylpyridine) and elemental sulfur, **2**, 282

Sulfurization of polymers. 6. Poly(vinylene polysulfide), poly(thienothiophene), and related structures from polyacetylene and elemental sulfur, **9**, 1709

Pentafluorobenzaldehyde

Replacement of an oxygen atom by chlorine atoms in the reaction of pentafluorobenzaldehyde with CCl₃-substituted compounds in the presence of AlCl₃, **3**, 544

Pentafluorobenzotrichloride

Replacement of an oxygen atom by chlorine atoms in the reaction of pentafluorobenzaldehyde with CCl₃-substituted compounds in the presence of AlCl₃, **3**, 544

Pentafluorobenzylidene chloride

Replacement of an oxygen atom by chlorine atoms in the reaction of pentafluorobenzaldehyde with CCl₃-substituted compounds in the presence of AlCl₃, **3**, 544

***n*-Pentane**

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Influence of the texture of chromia catalysts on their activity in synthesis of 2-methylthiophene, **9**, 1694

Pentane-2,4-dione

A practical method for synthesis of stable phosphorus ylides in aqueous media, **12**, 2244

Pentanol

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Pentarane

Synthesis of 6(*E*)- and 6(*Z*)-(3-ethoxycarbonylpropyl)-oximes of 16 α ,17 α -cyclohexanopregn-4-ene-3,6,20-trione and study of their interaction with proteins of the rat uterine cytosol and blood serum, **4**, 703

Peptides

Oncogene mRNA imaging with ^{99m}Tc-chelator-PNA-peptides (review), **7**, 1083

Sequence-specific RNA cleavage by oligonucleotide-peptide conjugates, **7**, 1177

Perfluoropropane

Adsorption of perfluoropropane on the PAC microporous carbon adsorbent, **12**, 2161

Perfluorosulfonic membranes

Ammonia and carbon dioxide permeability through perfluorosulfonic membranes, **2**, 275

Perimidine

Heterocyclic analogs of pleiadine. 70. Synthesis of 6-hydroxy-1,3-diazapyrenes, **5**, 860

Permethylmetallocenes

Single-, double-, and triple-charged cations based on iron-subgroup decamethylmetallocenes (review), **9**, 1616

Permethyloligosilanes

Synthesis of dichloro derivatives of linear and cyclic permethyloligosilanes and cyclolinear permethylpolysilanesiloxanes and permethylpolyoxysilane based on them, **1**, 175

Permethylpolyoxysilane

Synthesis of dichloro derivatives of linear and cyclic permethyloligosilanes and cyclolinear permethylpolysilanesiloxanes and permethylpolyoxysilane based on them, **1**, 175

Perovskites

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

Pharmacology

Exogenous donors of nitric oxide (a chemical aspect) (review), **8**, 1375

Nitric oxide synthase inhibitors: biology and chemistry (review), **11**, 1973

Phase diagram

Calibration functions in approximate simulations of equilibrium adsorption characteristics, **9**, 1667

Phase transfer

Metal-dependent stereochemistry of C—C bond formation under the asymmetric phase transfer catalysis by chiral salen complexes, **11**, 2086

Phase transitions

Estimation of the clathrate aggregation of substances in solutions from ion-exchange equilibrium data, **4**, 715

Conceivably the first example of a phase transition in aqueous solutions of oligosaccharide glycosides. Evidence from variable-temperature ¹H NMR and optical rotation measurements for a solution of allyl lactoside, **7**, 1337

¹²³Sb NQR and ¹⁹F NMR study of potassium, rubidium, and cesium heptafluorodiantimonates(III), **11**, 1996

Phase-transfer catalysis

Alkynylhalocarbenes. 4. Generation of (alk-1-ynyl)halocarbenes from 3-substituted 1,1,1,3-tetrahalopropanes under the action of bases, **7**, 1237

N- and *O*-Alkylation of 3-indolylcyclopropylacetic acid derivatives, **10**, 1829

Phenazine

Site-specific synthetic ribonucleases based on oligonucleotide conjugates with metal-independent organic catalysts of hydrolysis of phosphodiester bonds (review), **7**, 1112

Phenols

The aggregation and catalytic activity of amphiphilic calix[4]resorcinolarenes and phenols in hydrolysis of phosphonous esters in water—dimethylformamide media, **12**, 2183

One-step synthesis of substituted 2-amino-4*H*-chromenes and 2-amino-4*H*-benzo[*f*]chromenes. Molecular and crystal structure of 2-amino-3-cyano-6-hydroxy-4-phenyl-4*H*-benzo[*f*]chromene, **12**, 2238

Phenoxides

Specific chemical behavior of Nd^{III} and Dy^{III} iodides in reactions with aromatic compounds, **10**, 1909

Phenoxy radicals

A new method for the generation of stable phenoxy radicals by the reaction of $[(\text{Me}_3\text{Si})_2\text{N}]_2\text{E}$ (E = Ge, Sn) with sterically hindered phenols, **10**, 1961

Phenyl iodosoacetate

Synthesis of 3-methoxy-5-oxo-6-phenyl-5,6-dihydro-4*H*-isothiazolo[5,4-*b*]-1,4-thiazine 7,7-dioxide, the first representative of a new heterocyclic system, **1**, 187

Phenyl isocyanate

Palladium nitrosoarene complexes in reductive carbonylation of nitroarenes, **12**, 2286

Phenyl thioglycoside of *N*-acetylneuraminic acid

Selective preparation of glycosyl sulfone or glycal by treatment of phenyl thioglycoside of *N*-acetylneuraminic acid with *m*-chloroperbenzoic acid, **4**, 698

2-Phenyl-1-azaadamantane

2-Phenyl-1-boraadamantane complexes. Crystal structure and use in the synthesis of cage compounds, **8**, 1562

4-Phenylbenzaldehyde

Synthesis of new functionally substituted fullereno-pyrrolidines, **9**, 1723

2-Phenyl-1-boraadamantane

2-Phenyl-1-boraadamantane complexes. Crystal structure and use in the synthesis of cage compounds, **8**, 1562

4-Phenylbut-3-en-2-one

Selected properties of bi- and trinuclear complexes prepared by the reactions of $\text{Ru}_3(\text{CO})_{12}$ with β -substituted oxadienes, **9**, 1754

1,4-Phenylenediamine

Synthesis of novel linear exo-bidentate bispyridine ligands and their complexes with silver(I) tetrafluoroborate, **10**, 1957

***trans*-2-(2-Phenylethynylthio)-1-chlorocyclohexane**

Alkynylsulfenylation of alkenes activated by phosphorus oxohalide, **10**, 1970

 α -Phenyl-*nor*-gramine

Synthesis of α -alkyl- and α,α -dialkyl- β -phenyltryptamines, **1**, 185

Phenylhydrazines

Reactions of tautomeric quaternary phosphonium salts based on triphenylphosphine and 3-phenylpropargyl bromide with nitrogen nucleophiles, **1**, 148

2-Polyfluoroalkylchromones. 11. Synthesis and structures of 5-hydroxy-3-(2-hydroxyaryl)-5-polyfluoroalkyl- Δ^2 -pyrazolines and 3(5)-(2-hydroxyaryl)-5(3)-polyfluoroalkyl-pyrazoles, **7**, 1280

Phosphonioethylation of phenylhydrazine and hydroxylamine and selected properties of the resulting derivatives, **9**, 1744

2-Phenylindane-1,3-dione

Free radical formation during ethylbenzene oxidation catalyzed by cetyltrimethylammonium bromide, **3**, 449

***N*-Phenyl-*o*-phenylenediamine**

Formation of cobalt(III) cations with semiquinonediimine ligands, **8**, 1581

5-Phenyl-3-(β -piperidino)ethyl-1,2,4-oxadiazoles

Cyclization of *O*-benzoyl- β -piperidinopropionamidoximes to form 5-phenyl-3-(β -piperidino)ethyl-1,2,4-oxadiazoles, **11**, 2100

3-Phenylpropargyl bromide

Reactions of tautomeric quaternary phosphonium salts based on triphenylphosphine and 3-phenylpropargyl bromide with nitrogen nucleophiles, **1**, 148

4-Phenyl-9*H*-pyrimido[4,5-*b*]indoles

Synthesis of functional 2-substituted 4-phenyl-9*H*-pyrimido[4,5-*b*]indoles, **11**, 2129

Phenylsulfonylnitramine

Spectra and structure of mercury derivatives of primary nitramines, **6**, 1071

1-Phenylsulfonyl-1-(trimethylsilyl)ethylene

New method for the synthesis of indenenes, **11**, 2090

3-Phenyl-1-*p*-tolylprop-2-en-1-one

Selected properties of bi- and trinuclear complexes prepared by the reactions of $\text{Ru}_3(\text{CO})_{12}$ with β -substituted oxadienes, **9**, 1754

Phenylvinylidene

Synthesis and molecular structure of the first vinylidene complex $[\text{Cp}(\text{CO})_2\text{MnCu}(\mu\text{-C}=\text{CHPh})(\mu\text{-Cl})_2]$ with the Mn—Cu bond, **7**, 1339

Pheromones

Stereospecific 1,4-*cis*-hydrogenation of conjugated dienes, dienynes, and dienediynes catalyzed by chromium carbonyl complexes in stereocontrolled syntheses of physiologically active olefins (review), **8**, 1341

New synthesis of serricornin, the sex pheromone of the cigarette beetle (*Lasioderma serricorne*), **8**, 1600

Phosphaalkenes

Reactions between germynes (silylenes) and phosphaalkenes: an experimental and theoretical study. Preparation of the first representative of germaphosphacyclopropanes, **8**, 1568

1,2,3-Phosphadigermethanes

Reactions between germynes (silylenes) and phosphaalkenes: an experimental and theoretical study. Preparation of the first representative of germaphosphacyclopropanes, **8**, 1568

Phosphagermacyclopropanes

Reactions between germynes (silylenes) and phosphaalkenes: an experimental and theoretical study. Preparation of the first representative of germaphosphacyclopropanes, **8**, 1568

Phosphamide

Synthesis of phosphamide conjugates of 5'-mononucleotides with carcinine and its analogs, **10**, 1940

Phosphine oxides

Reactions of dibenzylphosphine oxide with α,β -unsaturated nitriles: synthesis of aminophospholene oxides, **4**, 671

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Phosphine sulfides

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Phosphines

Synthesis and the crystal structure of the triosmium cluster with the μ -dehydrobenzene ligand, $\text{Os}_3(\mu\text{-H})_2(\text{CO})_7(\mu\text{-C}_6\text{H}_4)\{\mu_3\text{-Ph}_2\text{PCH}_2\text{P}(\text{C}_6\text{H}_4)\text{Ph}\}$, **2**, 350

PCP pincer ligands based on metallocenes. Crystal structure of the rhodium complex *cis*-RhCl₂(CO)[{2,5-(Prⁱ₂PCH₂)₂C₅H₂}Fe(C₅H₅)], **6**, 1077

Phosphites

α -(*N*-Sulfonylamino)alkylphosphonates, **5**, 897

Phospholes

Reactions of dibenzylphosphine oxide with α,β -unsaturated nitriles: synthesis of aminophospholene oxides, **4**, 671

H-Phosphonate synthesis

Oligoribonucleotides containing an aminoalkyl group at the N(4) atom of cytosine as precursors of new reagents for site-specific modifications of biopolymers, **7**, 1194

Phosphonates

Conformational analysis and regioisomerism of mono- and diadducts of *O,O*-diisopropyl isoxazolinophosphonate with C₆₀, **4**, 593

α -(*N*-Sulfonylamino)alkylphosphonates, **5**, 897

Micelle-forming, liquid-crystalline properties, and catalytic effect of the mixed cetyltrimethylammonium bromide—polyethylene glycol(–9) monoalkanoate(–14)—water micellar system, **12**, 2176

Phosphonic esters

The aggregation and catalytic activity of amphiphilic calix[4]resorcinolarenes and phenols in hydrolysis of phosphonous esters in water—dimethylformamide media, **12**, 2183

Phosphonium salts

Reactions of tautomeric quaternary phosphonium salts based on triphenylphosphine and 3-phenylpropargyl bromide with nitrogen nucleophiles, **1**, 148

Phosphorescence

Luminescence of salts and copolymers containing the (Mo^{II}Cl₈)⁴⁺ cluster, **6**, 994

Phosphorothioates

Biological efficacy of antisense oligonucleotides complementary to overlapping regions of the mRNA target (review), **7**, 1118

Phosphorous esters

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

Phosphorus compounds

Retro-Bingel reaction in the electrochemical reduction of bis(dialkoxylphosphoryl)methanofullerenes, **1**, 72

Unusual reaction of hexaethylphosphorous triamide with mercuric chloride leading to the formation of metallic mercury, **1**, 191

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

Reaction of bicyclo[2.2.1]hepta-2,5-diene with the arene-sulfenamide—phosphorus(v) oxohalide system: chemo-, regio-, and stereoselectivity, **8**, 1468

Cationic Pd^{II}, Ni^{II}, and Ru^{II} complexes in the synthesis of alternating copolymers of CO with vinyl monomers (review), **9**, 1605

First quinine-based aryl phosphite: synthesis and application in the Pd-catalyzed enantioselective rearrangement of allylic thiocarbamate, **9**, 1748

Calix[4]resorcinolarenes with phosphinoylalkyl substituents on the lower rim of the molecule, **10**, 1968

Phosphorus oxohalides

Alkynylsulfenylation of alkenes activated by phosphorus oxohalide, **10**, 1970

Phosphorus ylides

New heteroorganic betaines containing the (+)E¹⁵—C—E¹⁴—X(–) and (+)E¹⁵—C—E¹⁴(–) structural fragments (E¹⁵ = P, As; E¹⁴ = Si, Ge, Sn; X = C, S, O, NR) (review), **5**, 721

A practical method for synthesis of stable phosphorus ylides in aqueous media, **12**, 2244

Phosphorylation

Synthesis and structures of nitroxyalkyl methylphosphonates, **1**, 157

Reactions of dibenzylphosphine oxide with α,β -unsaturated nitriles: synthesis of aminophospholene oxides, **4**, 671

First quinine-based aryl phosphite: synthesis and application in the Pd-catalyzed enantioselective rearrangement of allylic thiocarbamate, **9**, 1748

Photoacceptor

On the problem of directed signal transmission and energy transfer in molecular systems, **2**, 222

Photoaddition

Dual reactivity of an intermediate cation formed in the photolysis of dihydroquinolines in methanol, **11**, 2055

Photocatalysis

Femtosecond relaxation of photoexcited states in nanosized semiconductor particles of iron oxides, **3**, 457

Luminescence of salts and copolymers containing the (Mo^{II}Cl₈)⁴⁺ cluster, **6**, 994

Photochemical fixation

Synthesis and study of organometallic complexes of octa-phenyltetraazaporphyrinatoindium(III), **12**, 2261

Photochemical modification

Acridine-based macrocycles as potential probes for studies of the structures of nucleic acids, **7**, 1212

Photochemical reactions

Photochemistry of benzothiazolylformazanes in solutions, **5**, 839

Photochemical transformations

Fluorinated cyclohexadienones as versatile synthons for preparation of organofluorine compounds (review), **10**, 1775

Photochemistry

Photo- and thermochromic spiropyran. 21. 8'-Formyl-3,6'-dimethyl-4-oxospiro(3,4-dihydro-2*H*-1,3-benzoxazine-2,2'-[2*H*]chromene) possessing photochromic properties in the solid phase, **3**, 462

Photochromes

Photo- and thermochromic spiropyran. 21. 8'-Formyl-3,6'-dimethyl-4-oxospiro(3,4-dihydro-2*H*-1,3-benzoxazine-2,2'-[2*H*]chromene) possessing photochromic properties in the solid phase, **3**, 462

Photochromic dihetarylethenes. 17. Synthesis and photochromic properties of dithienylethenes containing new heterocyclic bridging fragments, **9**, 1731

Photochromic dihetarylethenes. 18. New approach to the synthesis of dithienothiophene and preparation of its photochromic derivative, **11**, 2097

Photochromic behavior

Crown-containing spironaphthoxazines and spiropyran. 3. Synthesis and investigation of the merocyanine form of crown-containing spirobenzothiazolinonaphthoxazine, **8**, 1441

Photochromic materials

Photo- and thermochromic spiropyran. 21. 8'-Formyl-3,6'-dimethyl-4-oxospiro(3,4-dihydro-2*H*-1,3-benzoxazine-2,2'-[2*H*]chromene) possessing photochromic properties in the solid phase, **3**, 462

Photochromic properties

Crown-containing spironaphthoxazines and spiropyran. 2. Influence of metal cations on the photochromic properties of spironaphthoxazines linked with aza-15(18)-crown-5(6) ethers, **1**, 58

Photochromism

Photochemistry of benzothiazolylformazanes in solutions, **5**, 839

Photochromic dihetarylethenes. 13. Optimization of conditions for the acylation of 2,5-dimethylthiophene with squaric acid dichloride, **8**, 1510

Photochromic dihetarylethenes. 14. Synthesis of symmetrical and unsymmetrical dihetarylcylobutene-1,2-diones, **8**, 1515

Photoisomerization

Simulation of optical response to complex formation of crown-containing 2-styrylbenzothiazoles with alkaline-earth metals, **5**, 789

Photoluminescence

Chemiluminescence activated by the Tb^{3+} ion in $(Bu^i_2Al)_2O$ aluminoxane oxidation with dioxygen in toluene, **5**, 904

Photoluminescent properties

Indolopyridines containing a bridgehead heteroatom. 12. Synthesis and reduction of 12-arylidene-5,6-dihydro-indolo[2,1-*a*]isoquinolinium trifluoroacetates, **11**, 2116

Photolysis

Fluorinated cyclohexadienones as versatile synthons for preparation of organofluorine compounds (review), **10**, 1775

Dual reactivity of an intermediate cation formed in the photolysis of dihydroquinolines in methanol, **11**, 2055

Photophysical properties

Luminescence of salts and copolymers containing the $(Mo^{II}_6Cl_8)^{4+}$ cluster, **6**, 994

Phthalocyanines

Oxidation of ascorbic acid in the presence of phthalocyanine metal complexes. Chemical aspects of catalytic anticancer therapy. 1. Catalysis of oxidation by cobalt octacarboxyphthalocyanine, **7**, 1231

Phytoalexins

Chromium arene complexes in synthesis of *trans*-resveratrol, **7**, 1319

Piperidine

Ring-closing metathesis of 2,2-diallyl derivatives of pyrrolidine and piperidine: a route to azaspiroheterocyclic structures, **4**, 645

***N*-(β -Piperidino)ethylurea**

Cyclization of *O*-benzoyl- β -piperidinopropionamidoximes to form 5-phenyl-3-(β -piperidino)ethyl-1,2,4-oxadiazoles, **11**, 2100

Piperilene

Influence of the texture of chromia catalysts on their activity in synthesis of 2-methylthiophene, **9**, 1694

Plasma

Crystalline carbon nitrides: thin films and bulk samples, **9**, 1633

Platination

DNA modification by *cis*-diaminoplatinum(II) complexes with aminonitroxide ligands, **6**, 1058

Platinum compounds

Powder X-ray diffraction study of the double complexes $[M(NH_3)_5Cl][M'Cl_4]$ as precursors of metal powders ($M = Ir, Rh, Co$; $M' = Pt, Pd$), **1**, 41

Cyclohexane transformations over metal oxide catalysts. 1. Effect of the nature of metal and support on the catalytic activity in cyclohexane ring opening, **2**, 249

Cyclohexane transformations over metal oxide catalysts. 2. Selective cyclohexane ring opening to form *n*-hexane over mono- and bimetallic rhodium catalysts, **2**, 255

Ring opening in epichlorohydrin and β -methylepichlorohydrin under the action of the $[PtCl_4]^{2-}$ anion in aqueous solutions, **2**, 354

Catalytic systems based on platinum and heteropoly compounds for oxidation of hydrocarbons with a dioxygen-dihydrogen gaseous mixture, **6**, 975

DNA modification by *cis*-diaminoplatinum(II) complexes with aminonitroxide ligands, **6**, 1058

Plumbous compounds

Investigation of chemisorption properties of the PbO surface, **9**, 1680

Polarizability

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Polarization

Effect of acidity of the medium and polarization of the surface on albumin adsorption by carbon fibers, **6**, 1006

Polycetylene

Sulfurization of polymers. 6. Poly(vinylene polysulfide), poly(thienothiophene), and related structures from polyacetylene and elemental sulfur, **9**, 1709

Polyaniline

ESR study of mechanism of polyaniline conductivity, **12**, 2216

Polycycloadducts

Cycloaddition to buckminsterfullerene C_{60} : advancements and future prospects (review), **3**, 367

Polydimethylsilane

Synthesis of α,ω -dichloropermethyloligosilanes by reactions of polydimethylsilane with metal chlorides, **9**, 1751

Polyether ketones

Activated bis- and tetrafluoroaromatic compounds containing bis-phenylquinoxaline fragments, **6**, 1039

Polyethylene glycol(-9) monoalkanoate(-14)

Micelle-forming, liquid-crystalline properties, and catalytic effect of the mixed cetyltrimethylammonium bromide—polyethylene glycol(-9) monoalkanoate(-14)—water micellar system, **12**, 2176

1-(2-Polyfluoroacylamino-phenyl)-3-polyfluoroalkylpropane-1,3-diones

Synthesis of 1-(2-polyfluoroacylamino-phenyl)-3-polyfluoroalkylpropane-1,3-diones and 2-polyfluoroalkyl-4-quinolones, **11**, 2109

Polyfluoroalkenesulfenyl chlorides

Chlorolysis of β -functionalized alkyl polyfluoroalkenyl sulfides, **6**, 1031

2-Polyfluoroalkylchromones

2-Polyfluoroalkylchromones. 10. Synthesis of regioisomeric 3-(2-hydroxyaryl)-5-polyfluoroalkyl- and 5-(2-hydroxyaryl)-3-polyfluoroalkylisoxazoles and determination of their structures by ^1H , ^{19}F , and ^{13}C NMR spectroscopy, **7**, 1270

Polyfluoroalkylisoxazoles

2-Polyfluoroalkylchromones. 10. Synthesis of regioisomeric 3-(2-hydroxyaryl)-5-polyfluoroalkyl- and 5-(2-hydroxyaryl)-3-polyfluoroalkylisoxazoles and determination of their structures by ^1H , ^{19}F , and ^{13}C NMR spectroscopy, **7**, 1270

2-Polyfluoroalkyl-4-quinolones

Synthesis of 1-(2-polyfluoroacylamino-phenyl)-3-polyfluoroalkylpropane-1,3-diones and 2-polyfluoroalkyl-4-quinolones, **11**, 2109

Polyhalides

Halogenation of 2-alkyl-2-azabicycloalkenes as a method for the synthesis of stable aziridinium salts of a new class, **7**, 1254

2-Polyhaloalkylchroman-4-ones

2-Polyfluoroalkylchromones. 12. Nitration of 5,7-dimethyl-2-polyhaloalkylchromones and complete assignment of signals in the ^1H and ^{13}C NMR spectra of 5,7-dimethyl-2-trifluoromethylchromone and its mono- and dinitro derivatives, **10**, 1817

2-Polyhaloalkylchromones

2-Polyfluoroalkylchromones. 12. Nitration of 5,7-dimethyl-2-polyhaloalkylchromones and complete assignment of signals in the ^1H and ^{13}C NMR spectra of 5,7-dimethyl-2-trifluoromethylchromone and its mono- and dinitro derivatives, **10**, 1817

Polyhydroxysteroids

Steroid compounds from the starfish *Lysastrosoma anthosticta* collected in the Sea of Japan, **3**, 535

Steroid polyols from the Far-Eastern starfish *Henricia sanguinolenta*, **12**, 2295

Polymeric cation exchanger

Dynamics of probe in network of polymeric cation exchanger studied by Fourier transform analysis of Mössbauer spectra, **12**, 2196

Polymerization

Electroconductive polymer films obtained by plasma polymerization of 1-amino-9,10-anthraquinone, **3**, 554

Synthesis and properties of styrenetricarbonylchromium and its analogs (review), **4**, 581

Products of reaction of fullerene C_{60} with fuming sulfuric acid studied by IR and ESR spectroscopy, **4**, 628

Polymers

Sulfurization of polymers. 5. Poly(6-methyl-5-sulfanyl-thieno[2,3-*b*]pyridine-4-thione), poly(thieno[2,3-*b*]azepine-4,5(6*H*)-dithione), and related structures from poly(2-methyl-5-vinylpyridine) and elemental sulfur, **2**, 282

Formation of coordination polymeric structures on the basis of 4,4'-dipyridylethylene and Ag^+ in solutions, **3**, 476

Electroconductive polymer films obtained by plasma polymerization of 1-amino-9,10-anthraquinone, **3**, 554

Modification of the polytrimethylsilylpropine adsorption layer in open capillary columns, **4**, 625

Products of reaction of fullerene C_{60} with fuming sulfuric acid studied by IR and ESR spectroscopy, **4**, 628

Effect of conformational rigidity on the glass transition and initial decomposition temperatures of polyimides, **5**, 820

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Luminescence of salts and copolymers containing the $(\text{Mo}^{\text{II}}\text{Cl}_8)^{4+}$ cluster, **6**, 994

Copolymerization of propylene oxide with carbon dioxide catalyzed by zinc adipate, **8**, 1451

Sulfurization of polymers. 6. Poly(vinylene polysulfide), poly(thienothiophene), and related structures from polyacetylene and elemental sulfur, **9**, 1709

Metallation of poly(1-trimethylsilyl-1-prop-1-yne) and poly(vinyltrimethylsilane) with superbases, **12**, 2248

Poly(2-methyl-5-vinylpyridine)

Sulfurization of polymers. 5. Poly(6-methyl-5-sulfanyl-thieno[2,3-*b*]pyridine-4-thione), poly(thieno[2,3-*b*]azepine-4,5(6*H*)-dithione), and related structures from poly(2-methyl-5-vinylpyridine) and elemental sulfur, **2**, 282

Polynaphthylimides

Effect of conformational rigidity on the glass transition and initial decomposition temperatures of polyimides, **5**, 820

Polynuclear complexes

Binuclear and polynuclear transition metal complexes with macrocyclic ligands. 2. New macrocyclic Schiff's base in the reaction of 4-*tert*-butyl-2,6-diformylphenol with 1,2-diaminobenzene. Synthesis and structural, spectroscopic, and theoretical study, **3**, 488

Polyoxometallates

Formation of dehydrogenated derivatives upon the oxidative dehydrogenation of adamantanes, **2**, 364

Polyperyleneimides

Effect of conformational rigidity on the glass transition and initial decomposition temperatures of polyimides, **5**, 820

Polyphosphoric acid

Heterocyclic analogs of pleiadene. 70. Synthesis of 6-hydroxy-1,3-diazapyrenes, **5**, 860

Polypodine B

New method for trimethylsilylation of hydroxy-containing compounds. Synthesis of persilylated ecdysteroids and carbohydrates, **10**, 1937

Poly(propylene carbonate)

Copolymerization of propylene oxide with carbon dioxide catalyzed by zinc adipate, **8**, 1451

Polysilicon hydrocarbons

Metallation of poly(1-trimethylsilyl-1-prop-1-yne) and poly(vinyltrimethylsilane) with superbases, **12**, 2248

Polythienezepine

Sulfurization of polymers. 5. Poly(6-methyl-5-sulfanylthieno[2,3-*b*]pyridine-4-thione), poly(thieno[2,3-*b*]azepine-4,5(6*H*)-dithione), and related structures from poly(2-methyl-5-vinylpyridine) and elemental sulfur, **2**, 282

Polythienepyridine

Sulfurization of polymers. 5. Poly(6-methyl-5-sulfanylthieno[2,3-*b*]pyridine-4-thione), poly(thieno[2,3-*b*]azepine-4,5(6*H*)-dithione), and related structures from poly(2-methyl-5-vinylpyridine) and elemental sulfur, **2**, 282

Poly(thienothiophene)

Sulfurization of polymers. 6. Poly(vinylene polysulfide), poly(thienothiophene), and related structures from polyacetylene and elemental sulfur, **9**, 1709

Polytrimethylsilylpropyne

Modification of the polytrimethylsilylpropyne adsorption layer in open capillary columns, **4**, 625

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Poly(1-trimethylsilylprop-1-yne)

Metallation of poly(1-trimethylsilyl-1-prop-1-yne) and poly(vinyltrimethylsilane) with superbases, **12**, 2248

Polyvinyl chloride

Sulfurization of polymers. 6. Poly(vinylene polysulfide), poly(thienothiophene), and related structures from polyacetylene and elemental sulfur, **9**, 1709

Poly(vinylene polysulfide)

Sulfurization of polymers. 6. Poly(vinylene polysulfide), poly(thienothiophene), and related structures from polyacetylene and elemental sulfur, **9**, 1709

Poly(vinyltrimethylsilane)

Metallation of poly(1-trimethylsilyl-1-prop-1-yne) and poly(vinyltrimethylsilane) with superbases, **12**, 2248

Porosity

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

Features of nuclear magnetic relaxation of water and benzene molecules during absorption on activated carbons and estimation of pore size distribution in adsorbents, **11**, 2036

Porous structures

Adsorption of perfluoropropane on the PAC microporous carbon adsorbent, **12**, 2161

Porphyrins

Femtosecond dynamics of relaxation of photoexcited *meso*-tetraferrocenylporphyrin in the nonprotonated and diprotonated forms (Fc_4PH_2 and $\text{Fc}_4\text{PH}_4^{2+}$), **6**, 986

Poststerone

Method for mild trimethylsilylation of the 14 α -hydroxy group in ecdysteroids, **10**, 1963

Potassium compounds

New approach to the synthesis of 2-carbamoylbenzothiazoles, **1**, 144

New approaches to syntheses of diethers and haloethers from cyclopentadiene, **4**, 616

Synthesis of 1,3,5-trisubstituted 1,2,4-triazolio-4-nitroimidates, **7**, 1332

Influence of the texture of chromia catalysts on their activity in synthesis of 2-methylthiophene, **9**, 1694

^{123}Sb NQR and ^{19}F NMR study of potassium, rubidium, and cesium heptafluorodiantimonates(III), **11**, 1996

Formation and properties of a catalyst based on sodium and potassium hydroxides in the reaction of 2,6-di-*tert*-butylphenol with methyl acrylate, **12**, 2189

Metallation of poly(1-trimethylsilyl-1-prop-1-yne) and poly(vinyltrimethylsilane) with superbases, **12**, 2248

Potassium hydroxide

Selective reduction of fullerene C_{60} with metals in neutral and alkaline media. Interaction of C_{60} with KOH, **11**, 2003

Potential energy surfaces

On the problem of directed signal transmission and energy transfer in molecular systems, **2**, 222

Synthesis and the crystal structure of $[\text{Hg}_6\text{As}_4](\text{InCl}_6)\text{Cl}$: influence of covalent and electrostatic factors on the supramolecular structure, **3**, 444

Proton mobility in hydrates of inorganic acids and acid salts (review), **4**, 555

Reactions between germynes (silylenes) and phosphalkenes: an experimental and theoretical study. Preparation of the first representative of germaphosphacyclopropanes, **8**, 1568

Powder X-ray diffraction analysis

Powder X-ray diffraction study of the double complexes $[\text{M}(\text{NH}_3)_5\text{Cl}][\text{M}'\text{Cl}_4]$ as precursors of metal powders ($\text{M} = \text{Ir, Rh, Co}$; $\text{M}' = \text{Pt, Pd}$), **1**, 41

Crystal structure and thermal stability of $\text{Ni}_{151.5}\text{Pb}_{24}\text{S}_{92}$. Search for selenium- and tellurium-containing analogs, **12**, 2139

Pressure

The use of saturated vapor pressure at standard temperature in correlations of physicochemical properties, **11**, 2008

Primary alcohols

Generation of alkyl hypochlorites in oxidation of alcohols with carbon tetrachloride catalyzed by vanadium and manganese compounds, **11**, 2074

Progesterone

Synthesis of 6(*E*)- and 6(*Z*)-(3-ethoxycarbonylpropyl)-oximes of 16 α ,17 α -cyclohexanopregn-4-ene-3,6,20-trione and study of their interaction with proteins of the rat uterine cytosol and blood serum, **4**, 703

L-Proline

Sulfur ylides. 12. Optically active keto stabilized sulfur ylide obtained from L-proline: synthesis and study, **12**, 2230

Propane

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Propanol

IR spectra of hydrogen fluoride solutions in *n*-propanol, **1**, 90
Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Propylene

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Cationic Pd^{II}, Ni^{II}, and Ru^{II} complexes in the synthesis of alternating copolymers of CO with vinyl monomers (review), **9**, 1605

Influence of rhenium additives on the activity of Cu/sibunit catalyst in transformations of isopropyl alcohol, **9**, 1768

Propylene carbonate

Copolymerization of propylene oxide with carbon dioxide catalyzed by zinc adipate, **8**, 1451

Propylene oxide

Copolymerization of propylene oxide with carbon dioxide catalyzed by zinc adipate, **8**, 1451

Propyne

Acetylene—allene rearrangement of propargyl systems X—CH₂—C≡CH (X = H, Me, NMe₂, OMe, F, SMe): an *ab initio* study, **5**, 774

Proteins

Synthesis of 6(*E*)- and 6(*Z*)-(3-ethoxycarbonylpropyl)-oximes of 16 α ,17 α -cyclohexanopregn-4-ene-3,6,20-trione and study of their interaction with proteins of the rat uterine cytosol and blood serum, **4**, 703

Effect of acidity of the medium and polarization of the surface on albumin adsorption by carbon fibers, **6**, 1006

Biological efficacy of antisense oligonucleotides complementary to overlapping regions of the mRNA target (review), **7**, 1118

Structure-functional organization of mouse aquaporin 4 gene, **7**, 1122

RNA targeting at any chosen site of interest by the novel RNA-protein hybrid ribozyme and the gene discovery based on the hybrid ribozyme libraries, **7**, 1166

Sensitized photomodification of oligonucleotide-binding proteins displayed on the eucaryotic cell surface, **7**, 1198

Investigation of surface oligonucleotide-binding proteins of eucaryotic cells by affinity modification with reactive oligonucleotide derivatives, **7**, 1204

Protolytic equilibria

Synthesis, acid-base and spectral properties of 3-(benzimidazol-2-yl)-2-phenylimino-2*H*-chromenes, **11**, 2070

Proton affinity

Protonation of ferrocene, ruthenocene, and osmocene: a density functional study, **10**, 1900

Proton conductivity

Proton mobility in hydrates of inorganic acids and acid salts (review), **4**, 555

Proton migration

Reactions of mono- and bimolecular hydrogen transfer in alkyl radicals: analysis using the parabolic model and density functional calculations, **4**, 602

Proton transfer

Excited-state intramolecular proton transfer in 2,4,5-triarylimidazole molecules, **11**, 2050

Proton transport

Proton mobility in hydrates of inorganic acids and acid salts (review), **4**, 555

Protonation

Synthesis and the crystal structure of the triosmium cluster with the μ -dehydrobenzene ligand, Os₃(μ -H)₂(CO)₇(μ -C₆H₄)(μ_3 -Ph₂PCH₂P(C₆H₄)Ph), **2**, 350

Photochromic dihetarylethenes. 13. Optimization of conditions for the acylation of 2,5-dimethylthiophene with squaric acid dichloride, **8**, 1510

Protonation of ferrocene, ruthenocene, and osmocene: a density functional study, **10**, 1900

Chemical ionization mass spectrometric determination of the configuration of decahydroquinolin-4-ols, **10**, 1959

Synthesis, acid-base and spectral properties of 3-(benzimidazol-2-yl)-2-phenylimino-2*H*-chromenes, **11**, 2070

Protons

Features of nuclear magnetic relaxation of water and benzene molecules during absorption on activated carbons and estimation of pore size distribution in adsorbents, **11**, 2036

Pseudorotation

VALISA: a new procedure for total lineshape analysis of NMR spectra. Conformational analysis of *trans*-1,2-dibromocyclopentane, **7**, 1222

Pyramidalization angle

Effect of local strain on the reactivity of carbon nanotubes, **5**, 764

Pyran

One-step synthesis of substituted 2-amino-4*H*-chromenes and 2-amino-4*H*-benzo[*f*]chromenes. Molecular and crystal structure of 2-amino-3-cyano-6-hydroxy-4-phenyl-4*H*-benzo[*f*]chromene, **12**, 2238

Pyranone derivatives

On the reactions of aroylacetonitriles with acetoacetates, **8**, 1545

Pyrano[4,3-*b*]pyridine derivatives

Synthesis of 3-acetyl-4-amino-6-arylpyran-2-ones and ethyl 7-aryl-4,5(1*H*,5*H*)-dioxopyrano[4,3-*b*]pyridine-2-carboxylates, **3**, 503

Pyrazines

New unsymmetrical difluoroaromatic compounds and estimation of their reactivities in nucleophilic substitution, **1**, 117

Pyrazoles

N-Dimethoxyphenylation of highly basic pyrazoles during undivided electrolysis, **6**, 998

Reactions of α -fluorine-containing β -functionalized vinyl sulfides with N-nucleophiles, **6**, 1020

2-Polyfluoroalkylchromones. 11. Synthesis and structures of 5-hydroxy-3-(2-hydroxyaryl)-5-polyfluoroalkyl- Δ^2 -pyrazolines and 3(5)-(2-hydroxyaryl)-5(3)-polyfluoroalkyl-pyrazoles, **7**, 1280

Pyrazolines

2-Polyfluoroalkylchromones. 11. Synthesis and structures of 5-hydroxy-3-(2-hydroxyaryl)-5-polyfluoroalkyl- Δ^2 -pyrazolines and 3(5)-(2-hydroxyaryl)-5(3)-polyfluoroalkyl-pyrazoles, **7**, 1280

Pyridine

Synthesis of novel linear exo-bidentate bispyridine ligands and their complexes with silver(I) tetrafluoroborate, **10**, 1957

Pyridines

Anilinomethylidene derivatives of cyclic 1,3-dicarbonyl compounds in the synthesis of new sulfur-containing pyridines and quinolines, **8**, 1556

Solid-phase oxoalkylation of pyridines and quinolines with 1-methylcycloalkanols under the action of lead tetraacetate, **10**, 1812

Pyridinones

Anilinomethylidene derivatives of cyclic 1,3-dicarbonyl compounds in the synthesis of new sulfur-containing pyridines and quinolines, **8**, 1556

Pyridinylithium

Synthesis of 2- and 3-pyridinyl(aryl)methanones, **3**, 540

Pyrido[3,2-*b*]indole

Synthesis and properties of [1,4]diazepino[6,5-*b*]indoles, **3**, 506

Pyrimidines

Condensation of polyfluorinated β -diimines with aromatic aldehydes, **4**, 712

Application of the Thorpe—Ziegler reaction for the synthesis of functionalized thiophenes, thienopyrimidines, and thienotriazines, **5**, 854

Reactions of α -fluorine-containing β -functionalized vinyl sulfides with N-nucleophiles, **6**, 1020

7-Pyrimidinylpyrido[2,3-*d*]pyrimidines

Simple synthesis of alkyl 5-oxo-5,8-dihydropyrido[2,3-*d*]pyrimidine-7-carboxylates from 5-acetyl-4-aminopyrimidines, **10**, 1875

Pyrimido[5,4-*b*]indole

Synthesis and properties of [1,4]diazepino[6,5-*b*]indoles, **3**, 506

Pyrone derivatives

Synthesis of 3-acetyl-4-amino-6-arylpyran-2-ones and ethyl 7-aryl-4,5(1*H*,5*H*)-dioxopyrano[4,3-*b*]pyridine-2-carboxylates, **3**, 503

Pyrrrole-2-carbaldehyde isonicotinoyl hydrazones

Characteristic features of intra- and intermolecular interactions in crystals of pyrrole-2-carbaldehyde isonicotinoyl hydrazone and its hydrate, **12**, 2224

Pyrrrole-2,5-dicarbaldehyde

Reactions of pyrrole-2,5-dicarbaldehyde with 2-aminodiphenylamine in the presence of nickel and cobalt trimethylacetates, **8**, 1575

Pyrrroles

Spirocyclohexadienones. 6. Three-component synthesis of 1-*R*-3,3-dimethyl-2-azaspiro[4.5]deca-1,6,9-trien-8-ones, **5**, 894

Easy formation of S_N^H products in reactions of indoles and pyrroles with 3-aryl-1,2,4-triazin-5(2*H*)-ones in the presence of tosyl chloride, **6**, 1042

Pyrrrolidines

Ring-closing metathesis of 2,2-diallyl derivatives of pyrrolidine and piperidine: a route to azaspiroheterocyclic structures, **4**, 645

Q

Quantum yield

Photochemistry of benzothiazolylformazanones in solutions, **5**, 839

Luminescence of lanthanides in complexes with chromophoric crown ethers, **12**, 2303

Quantum-chemical calculations, non-empirical

Strong intramolecular hydrogen bond N—H...O in 2-(2-acyl-1-phenylethenyl)-5-phenylpyrroles, **1**, 111

On the possibility of existence of η^4 - π -complexes of corannulene ($C_{20}H_{10}$) and C_{60} fullerene derivatives, **2**, 230

Electrochemical reduction and oxidation of fulleropyrrolidines and the ESR spectra of paramagnetic intermediates, **2**, 263

Binuclear and polynuclear transition metal complexes with macrocyclic ligands. 2. New macrocyclic Schiff's base in the reaction of 4-*tert*-butyl-2,6-diformylphenol with 1,2-diaminobenzene. Synthesis and structural, spectroscopic, and theoretical study, **3**, 488

Reactions of mono- and bimolecular hydrogen transfer in alkyl radicals: analysis using the parabolic model and density functional calculations, **4**, 602

New heteroorganic betaines containing the $(^+)E^{15}-C-E^{14}-X^{(-)}$ and $(^+)E^{15}-C-E^{14(-)}$ structural fragments ($E^{15} = P, As; E^{14} = Si, Ge, Sn; X = C, S, O, NR$) (review), **5**, 721

Crystal and molecular structures of fluorinated derivatives of C_{60} fullerene, **5**, 754

Simulation of the molecular and electronic structure of C_{60} fullerene π -complex with twelve half-sandwich species FeC_5H_5 , **5**, 770

Acetylene—allene rearrangement of propargyl systems $X-CH_2-C\equiv CH$ ($X = H, Me, NMe_2, OMe, F, SMe$): an *ab initio* study, **5**, 774

Cooperative intramolecular hydrogen bond and conformations of thioalix[4]arene molecules, **5**, 825

Chemical bonding in isolated molecules and crystals of zwitterionic pentacoordinate silicon chelates, **8**, 1423

Reactions between germynes (silylenes) and phosphalkenes: an experimental and theoretical study. Preparation of the first representative of germaphosphacyclopropanes, **8**, 1568

Single-, double-, and triple-charged cations based on iron-subgroup decamethylmetalloenes (review), **9**, 1616

Nature of $Fe-CH_2$ bonds in ferrocenylmethyl and ferrocenylenedimethyl cations, **9**, 1651

Analysis of vibrational spectra of naphthalene, deuterio-naphthalenes, and chromium (η^6 -naphthalene)tricarbonyl based on density functional calculations, **9**, 1656

Protonation of ferrocene, ruthenocene, and osmocene: a density functional study, **10**, 1900

Quantum-chemical study of supramolecular complexes (DPyEt)_n(AgNO₃)_m, **12**, 2145

Quantum-chemical studies

New unsymmetrical difluoroaromatic compounds and estimation of their reactivities in nucleophilic substitution, **1**, 117

Reactions of carbanions of bis(dialkoxyphosphoryl)bromomethane with fullerenes C₆₀ and C₇₀, **2**, 337

Synthesis and the crystal structure of [Hg₆As₄](InCl₆)Cl: influence of covalent and electrostatic factors on the supramolecular structure, **3**, 444

Photo- and thermochromic spiropyrans. 21. 8'-Formyl-3,6'-dimethyl-4-oxospiro(3,4-dihydro-2H-1,3-benzoxazine-2,2'-[2H]chromene) possessing photochromic properties in the solid phase, **3**, 462

Redox properties of N₂S₂-type nickel complexes with aromatic ligands. Crystal structure of [1,2-C₆H₄(SMe)NH₂]₂Ni²⁺(MeCN)₂·2ClO₄⁻, **3**, 467

Conformational analysis and regioisomerism of mono- and diadducts of *O,O*-diisopropyl isoxazolinophosphonate with C₆₀, **4**, 593

Mechanism of reaction of *n*-butane with but-2-enes in the presence of LaCaX faujasites, **5**, 783

Electrocatalytic CO₂ reduction in methanol catalyzed by mono-, di-, and electropolymerized phthalocyanine complexes, **5**, 805

Effect of conformational rigidity on the glass transition and initial decomposition temperatures of polyimides, **5**, 820

Structure and vibrational spectra of mononitroalkanes, **6**, 940

Activated bis- and tetrafluoroaromatic compounds containing bis-phenylquinoxaline fragments, **6**, 1039

Spectra and structure of mercury derivatives of primary nitramines, **6**, 1071

Metallation of fullerenes: electrochemical synthesis and voltammetric study of heterometallic C₆₀ and C₇₀ complexes, **8**, 1588

Quantum-chemical study of supramolecular complexes (DPyEt)_n(AgNO₃)_m, **12**, 2145

Arylsulfonylation of *N*-isobutylaniline and its derivatives: experimental study and quantum-chemical calculations, **12**, 2157

Negative-ion mass spectra of some *N*-mesyl derivatives of *o*-(cycloalk-2-enyl)-, *o*-(cycloalk-1-enyl)-, *o*-(pent-2-enyl)-, *o*-dibromopentylanilines and (α-bromoalkyl)indolines, **12**, 2299

Quasichemical approximation

Calibration functions in approximate simulations of equilibrium adsorption characteristics, **9**, 1667

Concentration dependences of heat conductivity coefficients of inert gases in narrow pores, **11**, 2026

Quaternary ammonium salts

Halogenation of 2-alkyl-2-azabicycloalkenes as a method for the synthesis of stable aziridinium salts of a new class, **7**, 1254

Quaternization

Heterocyclic analogs of pleiadiene. 69. Synthesis and oxidative hydroxylation of 1-alkyl-1,3-diazapyrenium salts, **1**, 139

Quinine derivatives

First quinine-based aryl phosphite: synthesis and application in the Pd-catalyzed enantioselective rearrangement of allylic thiocarbamate, **9**, 1748

Quinolines

Anilinomethylidene derivatives of cyclic 1,3-dicarbonyl compounds in the synthesis of new sulfur-containing pyridines and quinolines, **8**, 1556

Solid-phase oxoalkylation of pyridines and quinolines with 1-methylcycloalkanols under the action of lead tetraacetate, **10**, 1812

N-(Quinolin-1-yl)amidines

1,2,4-Triazino[5,6,1-*i,j*]quinolines: a new type of tricyclic analogs of fluoroquinolones, **4**, 663

Quinomethides

Reactions of nitrogenous derivatives of substituted salicylaldehydes with cyclic ketones and enamines, **7**, 1262

Quinones

Stereoselective synthesis of *cis*-4,7-disubstituted 4,7-dihydroxy-4,7-dihydro[2.2]paracyclophanes, **8**, 1483

α-Oxolactam enamines as new synthons in the Nenitzescu reaction, **10**, 1886

Quinoxalines

New unsymmetrical difluoroaromatic compounds and estimation of their reactivities in nucleophilic substitution, **1**, 117

Chemistry of acyl(imidoyl)ketenes. 7. Synthesis and thermolysis of 5-aryl-4-quinoxaliny-2,3-dihydrofuran-2,3-diones, **5**, 850

Activated bis- and tetrafluoroaromatic compounds containing bis-phenylquinoxaline fragments, **6**, 1039

R

Racemization

Synthesis of indole-containing analogs of (1*R*)-*cis*-chrysanthemic acid and *N*-substituted (1*R*)-*cis*-chrysanthemylamines, **7**, 1308

Radical anions

Retro-Bingel reaction in the electrochemical reduction of bis(dialkoxyphosphoryl)methanofullerenes, **1**, 72

Electrochemical reduction of 5-halo-5-nitro-1,3-dioxanes and 2-halo-2-nitro-1,3-propanediols, **1**, 78

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Electrochemical reduction and oxidation of fullereno-pyrrolidines and the ESR spectra of paramagnetic intermediates, **2**, 263

ESR parameters and transformations of the products of reduction of methanofullerenes, **5**, 813

Oxidative coupling of the azide ion with anions of primary nitroalkanes. Synthesis of 1-azido-1-nitroalkanes, **8**, 1466

Radical cations

Products of reaction of fullerene C₆₀ with fuming sulfuric acid studied by IR and ESR spectroscopy, **4**, 628

ESR spectra of products of oxidation of endometallofullerenes M@C₈₂ (M = Y, La, Ce, Gd), **6**, 1009

Electrochemical oxidation of 2*H*-imidazole *N*-oxides, **11**, 2065

Radical trianions

Electrochemical reduction and oxidation of fullereno-pyrrolidines and the ESR spectra of paramagnetic intermediates, **2**, 263

Radicals

Reactions of mono- and bimolecular hydrogen transfer in alkyl radicals: analysis using the parabolic model and density functional calculations, **4**, 602

ESR study of the thermal decomposition of di-*tert*-butoxy-*tert*-butyl alumotrioxide formed in the reaction of tri-*tert*-butoxyaluminum with *tert*-butyl hydroperoxide, **4**, 638

Estimation of dissociation energies of C—H bonds in oxygen-containing compounds from kinetic data for radical abstraction reactions, **9**, 1641

Radioenzymatic method

Comparative study of horseradish mutant forms by radioenzymology, **5**, 887

Radioisotope diagnostics

Derivatives of the *closo*-dodecaborate anion and their application in medicine (review), **8**, 1362

Radionuclides

Oncogene mRNA imaging with ^{99m}Tc-chelator-PNA-peptides (review), **7**, 1083

Raman spectroscopy

Anomalies of the partition coefficient and properties of crystals in the region of low concentrations of an isomorphous admixture. 1. Unusual decomposition of solid solutions of the NaCl—CdCl₂ system, **1**, 37

Structure and vibrational spectra of mononitroalkanes, **6**, 940

Spectra and structure of mercury derivatives of primary nitramines, **6**, 1071

Analysis of vibrational spectra of naphthalene, deuterio-naphthalenes, and chromium (η⁶-naphthalene)tricarbonyl based on density functional calculations, **9**, 1656

Rare earth elements

Influence of the texture of chromia catalysts on their activity in synthesis of 2-methylthiophene, **9**, 1694

Rate constants

Addition of Me₂·CCN, Me₂·CPh, and CCl₃CH₂·CHPh radicals to fullerene C₆₀, **2**, 240

Dipole-stabilized carbanions in the series of cyclic aldionitrones. 3. The influence of the configuration of the nitron group on H—D exchange of the methine hydrogen atom and metallation of aldionitrones, **2**, 297

Reactions of mono- and bimolecular hydrogen transfer in alkyl radicals: analysis using the parabolic model and density functional calculations, **4**, 602

Kinetics, mechanism, and products of the reaction of diphenylcarbonyl oxide with carboxylic acids, **4**, 608

Transesterification of difurazanyl ethers as a route to unsymmetrical derivatives of difurazanyl ether, **4**, 659

Influence of the size of the formed cycle on the reactivity of free radicals in cyclization reactions, **6**, 949

Interaction of 2,2,6,6-tetramethylpiperidine-1-oxyl chlorite with alcohols, **6**, 982

Estimation of dissociation energies of C—H bonds in oxygen-containing compounds from kinetic data for radical abstraction reactions, **9**, 1641

Electrocatalytic reduction of organic halides with cobalt bipyridine complexes, **9**, 1702

Reaction center

On the problem of directed signal transmission and energy transfer in molecular systems, **2**, 222

Reaction mechanisms

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

On the problem of directed signal transmission and energy transfer in molecular systems, **2**, 222

Electrocatalytic reactions involving the Ni^{II}—Zn^{II}—2,2'-bipyridine system, **2**, 269

Ring opening in epichlorohydrin and β-methylepichlorohydrin under the action of the [PtCl₄]²⁻ anion in aqueous solutions, **2**, 354

Cycloaddition to buckminsterfullerene C₆₀: advancements and future prospects (review), **3**, 367

Replacement of an oxygen atom by chlorine atoms in the reaction of pentafluorobenzaldehyde with CCl₃-substituted compounds in the presence of AlCl₃, **3**, 544

Proton mobility in hydrates of inorganic acids and acid salts (review), **4**, 555

Synthesis and properties of styrenetricarbonylchromium and its analogs (review), **4**, 581

Kinetics, mechanism, and products of the reaction of diphenylcarbonyl oxide with carboxylic acids, **4**, 608

New approaches to syntheses of diethers and haloethers from cyclopentadiene, **4**, 616

Mechanism of reaction of *n*-butane with but-2-enes in the presence of LaCaX faujasites, **5**, 783

High-resolution and cross-polarization magic angle spinning NMR studies of tricarbonylchromium complexes with polycyclic aromatic ligands (review), **6**, 907

A new method for the generation of stable phenoxy radicals by the reaction of [(Me₃Si)₂N]₂E (E = Ge, Sn) with sterically hindered phenols, **10**, 1961

Reaction network

Construction of the reaction networks for heterogeneous catalytic reactions: Fischer—Tropsch synthesis and related reactions (review), **1**, 1

Reactivity

New unsymmetrical difluoroaromatic compounds and estimation of their reactivities in nucleophilic substitution, **1**, 117

Synthesis and properties of styrenetricarbonylchromium and its analogs (review), **4**, 581

Effect of local strain on the reactivity of carbon nanotubes, **5**, 764

The reactivity of 2,2'-bipyridine complexes in the electrochemical reduction of organohalides, **5**, 796

Influence of the size of the formed cycle on the reactivity of free radicals in cyclization reactions, **6**, 949

Activated bis- and tetrafluoroaromatic compounds containing bis-phenylquinoxaline fragments, **6**, 1039

Synthesis of carbamoylformhydroxymoyl chlorides and study of their reactivities, **8**, 1504

Dual reactivity of an intermediate cation formed in the photolysis of dihydroquinolines in methanol, **11**, 2055

Study of the reactions of 3-chloro-4-cyanobenzo[*b*][1,6]naphthyridine with nucleophilic reagents, **11**, 2121

Arylsulfonylation of *N*-isobutylaniline and its derivatives: experimental study and quantum-chemical calculations, **12**, 2157

Rearrangements

Specific features of resonance electron capture mass spectra of ecdysteroid molecules, **2**, 306

Acetylene—allene rearrangement of propargyl systems $X-CH_2-C\equiv CH$ ($X = H, Me, NMe_2, OMe, F, SMe$): an *ab initio* study, **5**, 774

Mechanism of reaction of *n*-butane with but-2-enes in the presence of LaCaX faujasites, **5**, 783

α -(*N*-Sulfonylamino)alkylphosphonates, **5**, 897

First quinine-based aryl phosphite: synthesis and application in the Pd-catalyzed enantioselective rearrangement of allylic thiocarbamate, **9**, 1748

A new method for synthesis of *n*-(3-acyloxypropyl)-substituted six- to thirteen-membered alkan-*n*-olides, **10**, 1806

Protonation of ferrocene, ruthenocene, and osmocene: a density functional study, **10**, 1900

Sulfur ylides. 12. Optically active keto stabilized sulfur ylide obtained from L-proline: synthesis and study, **12**, 2230

Receptors

Synthesis of 6(*E*)- and 6(*Z*)-(3-ethoxycarbonylpropyl)-oximes of 16 α ,17 α -cyclohexanopregn-4-ene-3,6,20-trione and study of their interaction with proteins of the rat uterine cytosol and blood serum, **4**, 703

Oncogene mRNA imaging with ^{99m}Tc -chelator-PNA-peptides (review), **7**, 1083

Biological efficacy of antisense oligonucleotides complementary to overlapping regions of the mRNA target (review), **7**, 1118

Recombination

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Recyclization

New rearrangement of benzo[*d*]isoxazoles: recyclization of 4-*R*-6-nitrobenzo[*d*]isoxazole-3-carbaldehyde arylhydrazones into 2-aryl-4-(2-hydroxy-4-nitro-6-*R*-phenyl)-1,2,3-triazoles, **8**, 1519

Synthesis of 12-aryl-1-oxo-1,2,3,4,5,12-hexahydroindolo[2,1-*b*]quinazoline-6-carbonitriles by recyclization of

11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1869

Redox properties

Sulfurization of polymers. 6. Poly(vinylene polysulfide), poly(thienothiophene), and related structures from polyacetylene and elemental sulfur, **9**, 1709

Redox reactions

Synthesis and redox properties of bis-ferrocenylethynyl derivatives of bis(dimethylphosphinoethane)manganese, **1**, 170

Redox reactions of Ge^{II} and Sn^{II} dihalides with triethylsilane and triethylgermane, **7**, 1325

Reduction

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Selective reduction of the nitro group in the presence of the azoxy group. Synthesis of 2-(alkyl-*NNO*-azoxy)anilines, **2**, 311

Copolymerization of acetylene with ethylene in the presence of dibenzotitanium(0), **5**, 817

Sulfur ylides. 11. Selected chemical transformations of 1-methylthio-3,4-dihydropyrido[2,1-*a*]isoindole-2,6-dione, **6**, 1035

Synthesis of indole-containing analogs of (1*R*)-*cis*-chrysanthemic acid and *N*-substituted (1*R*)-*cis*-chrysanthemylamines, **7**, 1308

Exogenous donors of nitric oxide (a chemical aspect) (review), **8**, 1375

Electrocatalytic reduction of organic halides with cobalt bipyridine complexes, **9**, 1702

Fluorinated cyclohexadienones as versatile synthons for preparation of organofluorine compounds (review), **10**, 1775

N- and *O*-Alkylation of 3-indolylcyclopropylacetic acid derivatives, **10**, 1829

Specific chemical behavior of Nd^{II} and Dy^{II} iodides in reactions with aromatic compounds, **10**, 1909

Selective reduction of fullerene C_{60} with metals in neutral and alkaline media. Interaction of C_{60} with KOH, **11**, 2003

Indolopyridines containing a bridgehead heteroatom. 12. Synthesis and reduction of 12-arylidene-5,6-dihydroindolo[2,1-*a*]isoquinolinium trifluoroacetates, **11**, 2116

A convenient synthesis of 3,3,3-trifluoroalanine derivatives, **11**, 2136

Palladium nitrosoarene complexes in reductive carbonylation of nitroarenes, **12**, 2286

Regeneration

Effect of acidity of the medium and polarization of the surface on albumin adsorption by carbon fibers, **6**, 1006

Regioisomers

Conformational analysis and regioisomerism of mono- and diadducts of *O,O*-diisopropyl isoxazolinophosphonate with C_{60} , **4**, 593

2-Polyfluoroalkylchromones. 11. Synthesis and structures of 5-hydroxy-3-(2-hydroxyaryl)-5-polyfluoroalkyl- Δ^2 -pyrazolines and 3(5)-(2-hydroxyaryl)-5(3)-polyfluoroalkylpyrazoles, **7**, 1280

Regional rate method

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

Regioselectivity

Protonation of ferrocene, ruthenocene, and osmocene: a density functional study, **10**, 1900

Regression analysis

The use of saturated vapor pressure at standard temperature in correlations of physicochemical properties, **11**, 2008

Relative stability

Acetylene—allene rearrangement of propargyl systems $X-CH_2-C\equiv CH$ ($X = H, Me, NMe_2, OMe, F, SME$): an *ab initio* study, **5**, 774

Resonance effect

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Resonance electron capture

Negative-ion mass spectra of some *N*-mesyl derivatives of *o*-(cycloalk-2-enyl)-, *o*-(cycloalk-1-enyl)-, *o*-(pent-2-enyl)-, *o*-dibromopentylanilines and (α -bromoalkyl)indolines, **12**, 2299

Resonance structures

Dual reactivity of an intermediate cation formed in the photolysis of dihydroquinolines in methanol, **11**, 2055

trans-Resveratrol

Chromium arene complexes in synthesis of *trans*-resveratrol, **7**, 1319

Retention indices

Gas chromatographic and IR spectroscopic characteristics of tri- and tetramethylcyclohexenyl butenyl ketones, **9**, 1684

Retention values

Modification of the polytrimethylsilylpropine adsorption layer in open capillary columns, **4**, 625

Retro-Bingel reaction

Retro-Bingel reaction in the electrochemical reduction of bis(dialkoxyphosphoryl)methanofullerenes, **1**, 72

Electrochemical reduction and oxidation of fulleropyrrolidines and the ESR spectra of paramagnetic intermediates, **2**, 263

Rhenium compounds

Tetranuclear rhenium chalcogenide cluster complexes with a cubane core. Synthesis, structures, and properties (review), **4**, 569

23-Electron Re_6 metal clusters: syntheses and crystal structures of $(Ph_4P)_3[Re_6S_8(CN)_6]$, $(Ph_4P)_2(H)[Re_6Se_8(CN)_6] \cdot 8H_2O$, and $(Et_4N)_2(H)[Re_6Te_8(CN)_6] \cdot 2H_2O$, **5**, 866

Rhenium complexes with pyrazoles. Synthesis and crystal structure of *trans*- $[Re(O)(OMe)L_4]Br_2 \cdot L \cdot 4H_2O$ (L is 3,5-dimethylpyrazole), **5**, 872

Dehydrogenation of methanol on low Cu and Re—Cu catalysts supported on sibunite, **9**, 1698

Influence of rhenium additives on the activity of Cu/sibunite catalyst in transformations of isopropyl alcohol, **9**, 1768

First example of the cluster ammine complex $[Re_6Se_7Br(NH_3)_6]^{3+}$: synthesis and structure of the $[Re_6Se_7Br(NH_3)_6][Re_6Se_7BrBr_6] \cdot 12H_2O$ salt, **10**, 1919

Indolopyridines containing a bridgehead heteroatom. 12. Synthesis and reduction of 12-arylidene-5,6-dihydro-indolo[2,1-*a*]isoquinolinium trifluoroacetates, **11**, 2116

Rhodium compounds

Powder X-ray diffraction study of the double complexes $[M(NH_3)_5Cl][M'Cl_4]$ as precursors of metal powders ($M = Ir, Rh, Co$; $M' = Pt, Pd$), **1**, 41

Sulfur ylides. 10. Modified method for the synthesis of pyrrolizine- and indolizinediones, **1**, 189

Cyclohexane transformations over metal oxide catalysts. 1. Effect of the nature of metal and support on the catalytic activity in cyclohexane ring opening, **2**, 249

Cyclohexane transformations over metal oxide catalysts. 2. Selective cyclohexane ring opening to form *n*-hexane over mono- and bimetallic rhodium catalysts, **2**, 255

Carbonylation of methyl acetate in the presence of polymeric rhodium-containing catalysts, **2**, 259

Palladium-catalyzed asymmetric allylation and complex formation involving *P,N*-bidentate derivatives of (*S*)-2-(anilinomethyl)pyrrolidine, **3**, 521

PCP pincer ligands based on metallocenes. Crystal structure of the rhodium complex *cis*- $RhCl_2(CO)[\{2,5-(Pr^i_2PCH_2)_2C_3H_2\}Fe(C_3H_5)]$, **6**, 1077

Sulfur ylides. 12. Optically active keto stabilized sulfur ylide obtained from L-proline: synthesis and study, **12**, 2230

Ribonucleases

Design and synthesis of artificial ribonucleases based on 1,4-diazabicyclo[2.2.2]octane and imidazole (review), **7**, 1100

Site-specific synthetic ribonucleases based on oligonucleotide conjugates with metal-independent organic catalysts of hydrolysis of phosphodiester bonds (review), **7**, 1112

Sequence-specific RNA cleavage by oligonucleotide-peptide conjugates, **7**, 1177

Ribonucleic acids

Design and synthesis of artificial ribonucleases based on 1,4-diazabicyclo[2.2.2]octane and imidazole (review), **7**, 1100

Site-specific synthetic ribonucleases based on oligonucleotide conjugates with metal-independent organic catalysts of hydrolysis of phosphodiester bonds (review), **7**, 1112

Biological efficacy of antisense oligonucleotides complementary to overlapping regions of the mRNA target (review), **7**, 1118

Structure-functional organization of mouse aquaporin 4 gene, **7**, 1122

A fast genetic algorithm for RNA secondary structure analysis, **7**, 1135

Thermodynamic parameters of coaxial stacking on stacking hybridization of oligodeoxyribonucleotides, **7**, 1145

Hybridization of antisense oligonucleotides with yeast tRNA^{Phe}: factors determining the efficiency of interaction, **7**, 1156

RNA targeting at any chosen site of interest by the novel RNA-protein hybrid ribozyme and the gene discovery based on the hybrid ribozyme libraries, **7**, 1166

Sequence-specific RNA cleavage by oligonucleotide-peptide conjugates, **7**, 1177

Directed cleavage of RNA within an imperfect complementary complex by oligonucleotide—bleomycin A₃ conjugates, **7**, 1187

10-23 DNA enzymes for targeting *MDR1* mRNA, **7**, 1190

Acridine-based macrocycles as potential probes for studies of the structures of nucleic acids, **7**, 1212

Chimeric oligonucleotides based on 2'-*O*-modified oligoribonucleotides with the terminal 3'-3' internucleotide linkage as potential inhibitors of *MDR1* gene expression, **7**, 1217

Ribozymes

RNA targeting at any chosen site of interest by the novel RNA-protein hybrid ribozyme and the gene discovery based on the hybrid ribozyme libraries, **7**, 1166

Rietveld method

Crystal structure and thermal stability of Ni_{151.5}Pb₂₄S₉₂. Search for selenium- and tellurium-containing analogs, **12**, 2139

Ring opening

Cyclohexane transformations over metal oxide catalysts. 1. Effect of the nature of metal and support on the catalytic activity in cyclohexane ring opening, **2**, 249

Cyclohexane transformations over metal oxide catalysts. 2. Selective cyclohexane ring opening to form *n*-hexane over mono- and bimetallic rhodium catalysts, **2**, 255

Ring transformation

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

Ring-chain tautomerism

Reactions of 5-dihydrocotarnyl-1,3-dimethylbarbituric acid and other cotarnine derivatives with 1,3-dimethylbarbituric acid. X-ray diffraction analysis of a 5,5-spiro derivative of 1,3-dimethylbarbituric acid, **8**, 1540

Ritter reaction

Spirocyclohexadienones. 5. Synthesis of 2-*R*-7a-methyl-3-(spirocyclohexa-2,5-dien-4-one)perhydro-1-indolines, **4**, 709

Three-component synthesis of 3,4-dihydroisoquinoline derivatives, **5**, 844

Spirocyclohexadienones. 6. Three-component synthesis of 1-*R*,3,3-dimethyl-2-azaspiro[4.5]deca-1,6,9-trien-8-ones, **5**, 894

Synthesis of substituted bis(3,3-dialkyl-3,4-dihydro-1-isoquinolyl)methanes, **7**, 1303

Synthesis of 1-substituted (*R,S*)-8-(2-methoxy-5-methylphenyl)-3,3,9-trimethyl-2-azaspiro[4.5]deca-1,7-dien-6-ones, **12**, 2234

Rotational mobility

Proton mobility in hydrates of inorganic acids and acid salts (review), **4**, 555

Rubidium compounds

¹²³Sb NQR and ¹⁹F NMR study of potassium, rubidium, and cesium heptafluorodiantimonates(III), **11**, 1996

Ruthenacarborane

Reaction of ruthenacarborane with trifluoroacetoxymercuroferracarborane, **3**, 517

Ruthenium compounds

Cyclohexane transformations over metal oxide catalysts. 1. Effect of the nature of metal and support on the catalytic activity in cyclohexane ring opening, **2**, 249

Reactions of the Ru₃(CO)₁₀(μ-Ph₂PCH₂PPh₂) cluster with enynes RCH=CHC≡CR (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

Cationic Pd^{II}, Ni^{II}, and Ru^{II} complexes in the synthesis of alternating copolymers of CO with vinyl monomers (review), **9**, 1605

Single-, double-, and triple-charged cations based on iron-subgroup decamethylmetallocenes (review), **9**, 1616

Selected properties of bi- and trinuclear complexes prepared by the reactions of Ru₃(CO)₁₂ with β-substituted oxadienes, **9**, 1754

Reaction of 3-(*N*-phenylamino)-1-*p*-tolylprop-2-en-1-one with Ru₃(CO)₁₂, **9**, 1771

(Arene)ruthenium complexes with the monoanionic carborane ligand [9-SMe₂-7,8-C₂B₉H₁₀]⁻, **10**, 1928

Ruthenocenes

PCP pincer ligands based on metallocenes. Crystal structure of the rhodium complex *cis*-RhCl₂(CO)[{2,5-(Prⁱ₂PCH₂)₂C₃H₂}Fe(C₃H₅)], **6**, 1077

Protonation of ferrocene, ruthenocene, and osmocene: a density functional study, **10**, 1900

S

Sacrificial anode

The influence of the sacrificial anode nature on the mechanism of electrochemical arylation and alkylation of white phosphorus, **11**, 2059

Salen type complexes

Metal-dependent stereochemistry of C—C bond formation under the asymmetric phase transfer catalysis by chiral salen complexes, **11**, 2086

Salicylaldehydes

Reactions of nitrogenous derivatives of substituted salicylaldehydes with cyclic ketones and enamines, **7**, 1262

ESR study of weak exchange interactions in binuclear copper(II) complexes with 2-hydroxyacetophenone acyl-dihydrazones, **12**, 2268

Synthesis and study of binuclear vanadyl complexes with acyldihydrazones of salicylaldehyde and dicarboxylic acids, **12**, 2273

Salicylidene

ESR study of weak exchange interactions in binuclear copper(II) complexes with 2-hydroxyacetophenone acyl-dihydrazones, **12**, 2268

Samarium compounds

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Synthesis and crystal structure of the nanosized supramolecular Sm^{III} complex with macrocyclic cavitand cucurbituril {[Sm(H₂O)₄]₂(C₃₆H₃₆N₂₄O₁₂)₃}Br₆ • 44H₂O, **10**, 1915

Sandwich compounds

(Arene)ruthenium complexes with the monoanionic carborane ligand $[9-SMe_2-7,8-C_2B_9H_{10}]^-$, **10**, 1928

Saponin

Investigation of surface oligonucleotide-binding proteins of eucaryotic cells by affinity modification with reactive oligonucleotide derivatives, **7**, 1204

Saturated vapor

The use of saturated vapor pressure at standard temperature in correlations of physicochemical properties, **11**, 2008

Scaling

The Mills—Nixon and anomeric effects in 2,3-dihydro-1*H*-1,3,2-benzodiazaphospholes: a gas-phase electron diffraction study of $C_6H_4(NMe)_2PCl$ using quantum-chemical data and "a priori" force field, **11**, 2014

Schiff's bases

Binuclear and polynuclear transition metal complexes with macrocyclic ligands. 2. New macrocyclic Schiff's base in the reaction of 4-*tert*-butyl-2,6-diformylphenol with 1,2-diaminobenzene. Synthesis and structural, spectroscopic, and theoretical study, **3**, 488

Potentially hexadentate bisazine dioximate ligands: "correct" synthetic procedure and encapsulation reactions of the iron(II) ion, **6**, 1015

Halo-substituted (*S*)-*N*-(2-benzoylphenyl)-1-benzylpyrrolidine-2-carboxamides as new chiral auxiliaries for the asymmetric synthesis of (*S*)- α -amino acids, **8**, 1593

Metal-dependent stereochemistry of C—C bond formation under the asymmetric phase transfer catalysis by chiral salen complexes, **11**, 2086

Secondary structure

A fast genetic algorithm for RNA secondary structure analysis, **7**, 1135

Hybridization of antisense oligonucleotides with yeast tRNA^{Phe}: factors determining the efficiency of interaction, **7**, 1156

Cleavage of a DNA fragment by a binary oligonucleotide reagent, **7**, 1171

10-23 DNA enzymes for targeting *MDR1* mRNA, **7**, 1190

Acridine-based macrocycles as potential probes for studies of the structures of nucleic acids, **7**, 1212

Selectivity

Cyclohexane transformations over metal oxide catalysts. 1. Effect of the nature of metal and support on the catalytic activity in cyclohexane ring opening, **2**, 249

Cyclohexane transformations over metal oxide catalysts. 2. Selective cyclohexane ring opening to form *n*-hexane over mono- and bimetallic rhodium catalysts, **2**, 255

Selective preparation of glycosyl sulfone or glycol by treatment of phenyl thioglycoside of *N*-acetylneuraminic acid with *m*-chloroperbenzoic acid, **4**, 698

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

10-23 DNA enzymes for targeting *MDR1* mRNA, **7**, 1190

Selenides

Synthesis and crystal structures of supramolecular adducts of molybdenum and tungsten selenide aqua complexes with macrocyclic cavitand cucurbituril, **10**, 1800

Selenoacetals

Enzymatic dissymmetrization of *meso*-2,3-di-methylbutane-1,4-diol and its diacetate. Synthesis of scalemic (–)-lasiol, **3**, 481

Seleno-containing compounds

First example of the cluster ammine complex $[Re_6Se_7Br(NH_3)_6]^{3+}$: synthesis and structure of the $[Re_6Se_7Br(NH_3)_6][Re_6Se_7BrBr_6] \cdot 12H_2O$ salt, **10**, 1919

Self-diffusion coefficient

Concentration dependences of heat conductivity coefficients of inert gases in narrow pores, **11**, 2026

Semiconductors

Investigation of chemisorption properties of the PbO surface, **9**, 1680

Semiquinonediimine

Formation of cobalt(III) cations with semiquinonediimine ligands, **8**, 1581

Serricornin

New synthesis of serricornin, the sex pheromone of the cigarette beetle (*Lasioderma serricorne*), **8**, 1600

Sesquiterpenes

Stereocontrolled synthesis of *trans*-2-hydroxymethyl-3-methylcyclopentanone from (*S*)-(+)-citronellene, **2**, 359

Sialic acids

Selective preparation of glycosyl sulfone or glycol by treatment of phenyl thioglycoside of *N*-acetylneuraminic acid with *m*-chloroperbenzoic acid, **4**, 698

Sibunite

Adsorption of $H_3PW_{12}O_{40}$ by porous carbon materials, **2**, 243

Dehydrogenation of methanol on low Cu and Re—Cu catalysts supported on sibunite, **9**, 1698

Influence of rhenium additives on the activity of Cu/sibunite catalyst in transformations of isopropyl alcohol, **9**, 1768

Silenes

New heteroorganic betaines containing the $(^+)E^{15}-C-E^{14}-X^{(-)}$ and $(^+)E^{15}-C-E^{14(-)}$ structural fragments ($E^{15} = P, As; E^{14} = Si, Ge, Sn; X = C, S, O, NR$) (review), **5**, 721

Silicon compounds

Chemical bonding in isolated molecules and crystals of zwitterionic pentacoordinate silicon chelates, **8**, 1423

Silver compounds

Formation of coordination polymeric structures on the basis of 4,4'-dipyridylethylene and Ag^+ in solutions, **3**, 476

Synthesis of novel linear exo-bidentate bispyridine ligands and their complexes with silver(I) tetrafluoroborate, **10**, 1957

Quantum-chemical study of supramolecular complexes $(DPyEt)_n(AgNO_3)_m$, **12**, 2145

Silyl nitronates

Stereocontrolled synthesis of *trans*-2-hydroxymethyl-3-methylcyclopentanone from (*S*)-(+)-citronellene, **2**, 359

Silylacylene derivatives

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Silylation

Chromium arene complexes in synthesis of *trans*-resveratrol, **7**, 1319

Silylenes

New heteroorganic betaines containing the $(^+)E^{15}-C-E^{14}-X^{(-)}$ and $(^+)E^{15}-C-E^{14}(-)$ structural fragments ($E^{15} = P, As; E^{14} = Si, Ge, Sn; X = C, S, O, NR$) (review), **5**, 721
Reactions between germynes (silylenes) and phosphalkenes: an experimental and theoretical study. Preparation of the first representative of germaphosphacyclopropanes, **8**, 1568

Slit-like pores

Concentration dependences of heat conductivity coefficients of inert gases in narrow pores, **11**, 2026

Sodium borohydride

Indolopyridines containing a bridgehead heteroatom. 12. Synthesis and reduction of 12-arylidene-5,6-dihydroindolo[2,1-*a*]isoquinolinium trifluoroacetates, **11**, 2116

Sodium compounds

Anomalies of the partition coefficient and properties of crystals in the region of low concentrations of an isomorphous admixture. 1. Unusual decomposition of solid solutions of the NaCl—CdCl₂ system, **1**, 37

Synthesis of carbamoylformhydroxymoyl chlorides and study of their reactivities, **8**, 1504

Formation and properties of a catalyst based on sodium and potassium hydroxides in the reaction of 2,6-di-*tert*-butylphenol with methyl acrylate, **12**, 2189

Sodium oleate

Adsorption of surfactants on superfine magnetite, **11**, 2044

Solid solutions

Anomalies of the partition coefficient and properties of crystals in the region of low concentrations of an isomorphous admixture. 1. Unusual decomposition of solid solutions of the NaCl—CdCl₂ system, **1**, 37

Powder X-ray diffraction study of the double complexes $[M(NH_3)_5Cl][M'Cl_4]$ as precursors of metal powders ($M = Ir, Rh, Co; M' = Pt, Pd$), **1**, 41

Electronic excitation energy transfer in solid solution of 7-diethylamino-3,4-benzophenoxazine-2-one (Nile Red dye) in bis[*N*-2-(oxybenzylidene)-4-*tert*-butylaniline]zinc, **1**, 67

Solid-phase synthesis

Oligoribonucleotides containing an aminoalkyl group at the N(4) atom of cytosine as precursors of new reagents for site-specific modifications of biopolymers, **7**, 1194

Solubility

Nitric oxide synthase inhibitors: biology and chemistry (review), **11**, 1973

Solutions

IR spectra of hydrogen fluoride solutions in *n*-propanol, **1**, 90

Estimation of the clathrate aggregation of substances in solutions from ion-exchange equilibrium data, **4**, 715

Conceivably the first example of a phase transition in aqueous solutions of oligosaccharide glycosides. Evidence from variable-temperature ¹H NMR and optical rotation measurements for a solution of allyl lactoside, **7**, 1337

Solvation

Kinetics, mechanism, and products of the reaction of diphenylcarbonyl oxide with carboxylic acids, **4**, 608

Solvatochromic descriptors

The use of saturated vapor pressure at standard temperature in correlations of physicochemical properties, **11**, 2008

Solvents

Adsorption of surfactants on superfine magnetite, **11**, 2044

A practical method for synthesis of stable phosphorus ylides in aqueous media, **12**, 2244

Sorbents

Effect of acidity of the medium and polarization of the surface on albumin adsorption by carbon fibers, **6**, 1006

Sorption heat

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Specific area

Adsorption of surfactants on superfine magnetite, **11**, 2044

Specific surface

Influence of the texture of chromia catalysts on their activity in synthesis of 2-methylthiophene, **9**, 1694

Spin exchange

Spin exchange between transition metal complexes and nitroxyl radicals in nonaqueous media, **12**, 2207

Spin traps

Addition of Me₂·CCN, Me₂·CPh, and CCl₃CH₂·CHPh radicals to fullerene C₆₀, **2**, 240

ESR study of the thermal decomposition of di-*tert*-butoxy-*tert*-butyl alumotrioxide formed in the reaction of tri-*tert*-butoxyaluminum with *tert*-butyl hydroperoxide, **4**, 638

Spinel

Exoemission and catalytic activity of oxides with perovskite and spinel structures in the oxidation of CO and hydrocarbons, **1**, 46

Spin-spin coupling constants

Dipole-stabilized carbanions in the series of cyclic aldonoitrones. 3. The influence of the configuration of the nitron group on H—D exchange of the methine hydrogen atom and metallation of aldonitrones, **2**, 297

VALISA: a new procedure for total lineshape analysis of NMR spectra. Conformational analysis of *trans*-1,2-dibromocyclopentane, **7**, 1222

2-Polyfluoroalkylchromones. 12. Nitration of 5,7-dimethyl-2-polyhaloalkylchromones and complete assignment of signals in the ¹H and ¹³C NMR spectra of 5,7-dimethyl-2-trifluoromethylchromone and its mono- and dinitro derivatives, **10**, 1817

Spin-spin exchange interactions

ESR study of weak exchange interactions in binuclear copper(II) complexes with acyldihydrazones of fluorinated β-diketones, **4**, 632

ESR study of weak exchange interactions in binuclear copper(II) complexes with 2-hydroxyacetophenone acyldihydrazones, **12**, 2268

Synthesis and study of binuclear vanadyl complexes with acyldihydrazones of salicylaldehyde and dicarboxylic acids, **12**, 2273

Spiro complexes

First example of the formation of bipolar spiro σ -complexes from 6-bromo-5,7-dinitrobenzo[*e*]-1,2,3,4-tetrazine 1,3-di-*N*-oxide, **4**, 668

Spiro compounds

Crown-containing spironaphthoxazines and spiropyrans. 2. Influence of metal cations on the photochromic properties of spironaphthoxazines linked with aza-15(18)-crown-5(6) ethers, **1**, 58

Spirocyclohexadienones. 5. Synthesis of 2-*R*-7a-methyl-3-(spirocyclohexa-2,5-dien-4-one)perhydro-1-indolines, **4**, 709

Spirocyclohexadienones. 6. Three-component synthesis of 1-*R*-3,3-dimethyl-2-azaspiro[4.5]deca-1,6,9-trien-8-ones, **5**, 894

5,5-Spiro derivatives of barbituric acid

Reactions of 5-dihydrocotarnyl-1,3-dimethylbarbituric acid and other cotarnine derivatives with 1,3-dimethylbarbituric acid. X-ray diffraction analysis of a 5,5-spiro derivative of 1,3-dimethylbarbituric acid, **8**, 1540

Spirobenzothiazolinonaphthoxazine

Crown-containing spironaphthoxazines and spiropyrans. 3. Synthesis and investigation of the merocyanine form of crown-containing spirobenzothiazolinonaphthoxazine, **8**, 1441

2,2'-Spirobichromenes

Reactions of nitrogenous derivatives of substituted salicylaldehydes with cyclic ketones and enamines, **7**, 1262

ortho-Spiroheterocyclization

Synthesis of 1-substituted (*R,S*)-8-(2-methoxy-5-methylphenyl)-3,3,9-trimethyl-2-azaspiro[4.5]deca-1,7-dien-6-ones, **12**, 2234

Spironaphthoxazines

Crown-containing spironaphthoxazines and spiropyrans. 3. Synthesis and investigation of the merocyanine form of crown-containing spirobenzothiazolinonaphthoxazine, **8**, 1441

Spiropyrans

Crown-containing spironaphthoxazines and spiropyrans. 2. Influence of metal cations on the photochromic properties of spironaphthoxazines linked with aza-15(18)-crown-5(6) ethers, **1**, 58

Photo- and thermochromic spiropyrans. 21. 8'-Formyl-3,6'-dimethyl-4-oxospiro(3,4-dihydro-2*H*-1,3-benzoxazine-2,2'-[2*H*]chromene) possessing photochromic properties in the solid phase, **3**, 462

Crown-containing spironaphthoxazines and spiropyrans. 3. Synthesis and investigation of the merocyanine form of crown-containing spirobenzothiazolinonaphthoxazine, **8**, 1441

Squaric acid

Photochromic dihetarylethenes. 13. Optimization of conditions for the acylation of 2,5-dimethylthiophene with squaric acid dichloride, **8**, 1510

Photochromic dihetarylethenes. 14. Synthesis of symmetrical and unsymmetrical dihetarylcylobutene-1,2-diones, **8**, 1515

Stability constants

Simulation of optical response to complex formation of crown-containing 2-styrylbenzothiazoles with alkaline-earth metals, **5**, 789

Stannenes

New heteroorganic betaines containing the $(^+)E^{15}-C-E^{14}-X^{(-)}$ and $(^+)E^{15}-C-E^{14(-)}$ structural fragments ($E^{15} = P, As$; $E^{14} = Si, Ge, Sn$; $X = C, S, O, NR$) (review), **5**, 721

Stannylenes

New heteroorganic betaines containing the $(^+)E^{15}-C-E^{14}-X^{(-)}$ and $(^+)E^{15}-C-E^{14(-)}$ structural fragments ($E^{15} = P, As$; $E^{14} = Si, Ge, Sn$; $X = C, S, O, NR$) (review), **5**, 721

A new method for the generation of stable phenoxyl radicals by the reaction of $[(Me_3Si)_2N]_2E$ ($E = Ge, Sn$) with sterically hindered phenols, **10**, 1961

Starfish

Steroid compounds from the starfish *Lysastrosoma anthosticta* collected in the Sea of Japan, **3**, 535

Steroid polyols from the Far-Eastern starfish *Henricia sanguinolenta*, **12**, 2295

Stearic acid

Adsorption of surfactants on superfine magnetite, **11**, 2044

Stereochemistry

Synthesis of new CF_3 -containing 3,4-dihydro-2*H*-pyrans, **4**, 649

Stereoselective electrochemical transformation of 4-substituted cyclohexanones into *cis*-5-substituted 2,2-dimethoxycyclohexanols, **8**, 1478

New synthesis of serricornin, the sex pheromone of the cigarette beetle (*Lasioderma serricorne*), **8**, 1600

Chemical ionization mass spectrometric determination of the configuration of decahydroquinolin-4-ols, **10**, 1959

Stereocontrolled synthesis

Stereospecific 1,4-*cis*-hydrogenation of conjugated dienes, dienynes, and dienediynes catalyzed by chromium carbonyl complexes in stereocontrolled syntheses of physiologically active olefins (review), **8**, 1341

Stereoisomerism

Synthesis and properties of styrenetricarbonylchromium and its analogs (review), **4**, 581

Stereoselectivity

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Stereocontrolled synthesis of *trans*-2-hydroxymethyl-3-methylcyclopentanone from (*S*)-(+)-citronellene, **2**, 359

Synthesis of chromenes with isoprenoid side chains and their selective ozonolysis, **3**, 526

Reaction of bicyclo[2.2.1]hepta-2,5-diene with the arene-sulfenamide-phosphorus(v) oxohalide system: chemo-, regio-, and stereoselectivity, **8**, 1468

Stereoselective electrochemical transformation of 4-substituted cyclohexanones into *cis*-5-substituted 2,2-dimethoxycyclohexanols, **8**, 1478

Stereoselective synthesis of *cis*-4,7-disubstituted 4,7-dihydroxy-4,7-dihydro[2.2]paracyclophanes, **8**, 1483

Selective reduction of fullerene C₆₀ with metals in neutral and alkaline media. Interaction of C₆₀ with KOH, **11**, 2003

Metal-dependent stereochemistry of C—C bond formation under the asymmetric phase transfer catalysis by chiral salen complexes, **11**, 2086

Sterically hindered phenols

A new method for the generation of stable phenoxy radicals by the reaction of [(Me₃Si)₂N]₂E (E = Ge, Sn) with sterically hindered phenols, **10**, 1961

Stilbazole

Synthesis of novel linear exo-bidentate bispyridine ligands and their complexes with silver(I) tetrafluoroborate, **10**, 1957

Structural genomics

A fast genetic algorithm for RNA secondary structure analysis, **7**, 1135

Structure—property correlation

The use of saturated vapor pressure at standard temperature in correlations of physicochemical properties, **11**, 2008

Styrene

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Cationic Pd^{II}, Ni^{II}, and Ru^{II} complexes in the synthesis of alternating copolymers of CO with vinyl monomers (review), **9**, 1605

Styrenetricarbonylchromium

Synthesis and properties of styrenetricarbonylchromium and its analogs (review), **4**, 581

2-Styrylbenzothiazoles

Synthesis of crown-containing 2-styrylbenzothiazoles. Effect of alkali metal cations on the condensation of crown-ether benzaldehydes with 2-methylbenzothiazole, **2**, 319

Simulation of optical response to complex formation of crown-containing 2-styrylbenzothiazoles with alkaline-earth metals, **5**, 789

Substituent effects

Infrared spectroscopy of hydrogen bond and substituent effects in electron donor molecules, **6**, 961

Substituted anilines

Synthesis of novel linear exo-bidentate bispyridine ligands and their complexes with silver(I) tetrafluoroborate, **10**, 1957

Sulfates

Alkylation of acetylene by *tert*-butyl alcohol, **11**, 2134

Sulfates polyols

Steroid compounds from the starfish *Lysastrosoma anthosticta* collected in the Sea of Japan, **3**, 535

Sulfenylation

Chlorolysis of β -functionalized alkyl polyfluoroalkenyl sulfides, **6**, 1031

Reaction of bicyclo[2.2.1]hepta-2,5-diene with the arene-sulfenamide—phosphorus(V) oxohalide system: chemo-, regio-, and stereoselectivity, **8**, 1468

Sulfides

Indolopyridines containing a bridgehead heteroatom. 12. Synthesis and reduction of 12-arylidene-5,6-dihydroindolo[2,1-*a*]isoquinolinium trifluoroacetates, **11**, 2116

N-Sulfinylanilines

Metathetical imidation of dioxobis(dimethyldithiocarbamate)molybdenum with *o*-substituted *N*-sulfinylanilines, **6**, 1075

Sulfone

Selective preparation of glycosyl sulfone or glycol by treatment of phenyl thioglycoside of *N*-acetylneuraminic acid with *m*-chloroperbenzoic acid, **4**, 698

Sulfonium ylides

Sulfur ylides. 10. Modified method for the synthesis of pyrrolizine- and indolizinediones, **1**, 189

Sulfur ylides. 12. Optically active keto stabilized sulfur ylide obtained from L-proline: synthesis and study, **12**, 2230

α -(*N*-Sulfonylamino)alkyl phosphites and phosphonates

α -(*N*-Sulfonylamino)alkylphosphonates, **5**, 897

Sulfonylation

N- and *O*-Alkylation of 3-indolylcyclopropylacetic acid derivatives, **10**, 1829

Sulfoximides

Nitro derivatives of cyclic sulfoximides of the 1,2-benzothiazole series, **8**, 1549

Sulfur ylides

Sulfur ylides. 11. Selected chemical transformations of 1-methylthio-3,4-dihydropyrido[2,1-*a*]isoindole-2,6-dione, **6**, 1035

Sulfur-containing compounds

Electrochemical arylation of cobalt and nickel chelates with diphenyliodonium salts, **1**, 85

New approach to the synthesis of 2-carbamoylbenzothiazoles, **1**, 144

Selective preparation of glycosyl sulfone or glycol by treatment of phenyl thioglycoside of *N*-acetylneuraminic acid with *m*-chloroperbenzoic acid, **4**, 698

Synthesis of sulfur-containing sydnone, **5**, 899

E—*Z*-Isomerization of 2-methylenethiazolidin-4-ones, **7**, 1292

Anilinomethylidene derivatives of cyclic 1,3-dicarbonyl compounds in the synthesis of new sulfur-containing pyridines and quinolines, **8**, 1556

Sulfuric acid

A new method for synthesis of *n*-(3-acyloxypropyl)-substituted six- to thirteen-membered alkan-*n*-olides, **10**, 1806

Sulfurization

Sulfurization of polymers. 5. Poly(6-methyl-5-sulfanylthieno[2,3-*b*]pyridine-4-thione), poly(thieno[2,3-*b*]azepine-4,5(6*H*)-dithione), and related structures from poly(2-methyl-5-vinylpyridine) and elemental sulfur, **2**, 282

Sulfurization of polymers. 6. Poly(vinylene polysulfide), poly(thienothiophene), and related structures from polyacetylene and elemental sulfur, **9**, 1709

Superbases

Metallation of poly(1-trimethylsilyl-1-prop-1-yne) and poly(vinyltrimethylsilane) with superbases, **12**, 2248

Supramolecular adduct

Synthesis and crystal structures of supramolecular adducts of molybdenum and tungsten selenide aqua complexes with macrocyclic cavitand cucurbituril, **10**, 1800

Supramolecular chemistry

Synthesis of novel linear exo-bidentate bispyridine ligands and their complexes with silver(I) tetrafluoroborate, **10**, 1957

Supramolecular compounds

Synthesis and crystal structure of supramolecular adduct of tetranuclear uranyl chloride aquacomplex with macrocyclic cavitand cucurbituril, **2**, 346

Synthesis and the crystal structure of $[\text{Hg}_6\text{As}_4](\text{InCl}_6)\text{Cl}$: influence of covalent and electrostatic factors on the supramolecular structure, **3**, 444

Synthesis and crystal structure of the nanosized supramolecular Sm^{III} complex with macrocyclic cavitand cucurbituril $\{[\text{Sm}(\text{H}_2\text{O})_4]_2(\text{C}_{36}\text{H}_{36}\text{N}_{24}\text{O}_{12})_3\}\text{Br}_6 \cdot 44\text{H}_2\text{O}$, **10**, 1915

Quantum-chemical study of supramolecular complexes $(\text{DPyEt})_n(\text{AgNO}_3)_m$, **12**, 2145

Surface

Investigation of chemisorption properties of the PbO surface, **9**, 1680

Surface charge

Effect of acidity of the medium and polarization of the surface on albumin adsorption by carbon fibers, **6**, 1006

Surfactants

Adsorption of surfactants on superfine magnetite, **11**, 2044

Sydones

Synthesis of sulfur-containing sydnones, **5**, 899

NO-Synthases

Nitric oxide synthase inhibitors: biology and chemistry (review), **11**, 1973

T**Tautomerism**

Reactions of tautomeric quaternary phosphonium salts based on triphenylphosphine and 3-phenylpropargyl bromide with nitrogen nucleophiles, **1**, 148

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

2-Polyfluoroalkylchromones. 11. Synthesis and structures of 5-hydroxy-3-(2-hydroxyaryl)-5-polyfluoroalkyl- Δ^2 -pyrazolines and 3(5)-(2-hydroxyaryl)-5(3)-polyfluoroalkylpyrazoles, **7**, 1280

Synthesis and structures of nickel(II) complexes with thioether-containing β -aminovinyl ketones, **10**, 1924

Synthesis of 1-(2-polyfluoroacylamino-phenyl)-3-polyfluoroalkylpropane-1,3-diones and 2-polyfluoroalkyl-4-quinolones, **11**, 2109

Temperature programmed desorption

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

Terpenoids

Reactions of dibenzylphosphine oxide with α,β -unsaturated nitriles: synthesis of aminophospholene oxides, **4**, 671

Tetra-*n*-butoxytitanium

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

Tetrafluoroborates

Synthesis of novel linear exo-bidentate bispyridine ligands and their complexes with silver(I) tetrafluoroborate, **10**, 1957

1,1,1,3-Tetrahalopropanes

Alkynylhalocarbenes. 4. Generation of (alk-1-ynyl)halocarbenes from 3-substituted 1,1,1,3-tetrahalopropanes under the action of bases, **7**, 1237

Tetrahydropyridine-6-thiolates

First multicomponent synthesis of tricyclic hydrogenated pyridines, **2**, 362

1,2,3,6-Tetrahydro-2-pyridyl carboxylates

Aza Diels–Alder reactions of methyl trifluoropyruvate sulfonyl- and phosphorylimines with 1,3-dienes, **7**, 1298

Tetrahydroquinolines

Anilinomethylidene derivatives of cyclic 1,3-dicarbonyl compounds in the synthesis of new sulfur-containing pyridines and quinolines, **8**, 1556

Tetrahydroxanthenes

Reactions of nitrogenous derivatives of substituted salicylaldehydes with cyclic ketones and enamines, **7**, 1262

2,2,6,6-Tetramethylpiperidine-1-oxyl chlorite

Interaction of 2,2,6,6-tetramethylpiperidine-1-oxyl chlorite with alcohols, **6**, 982

Tetramethylpiperidineoxyl

Spin exchange between transition metal complexes and nitroxyl radicals in nonaqueous media, **12**, 2207

Tetrazoles

Synthesis of carbamoylformhydroxymoyl chlorides and study of their reactivities, **8**, 1504

Thenoins

Photochromic dihetarylethenes. 17. Synthesis and photochromic properties of dithienylethenes containing new heterocyclic bridging fragments, **9**, 1731

Thermal decomposition

Thermal decomposition of deuterofullerite, **1**, 96

ESR study of the thermal decomposition of di-*tert*-butoxy-*tert*-butyl alumotrioxide formed in the reaction of tri-*tert*-butoxyaluminum with *tert*-butyl hydroperoxide, **4**, 638

New polyfunctional silicon-containing amines $\text{C}_6[\text{CH}_2\text{CH}_2\text{SiMe}(\text{OCH}_2\text{CH}_2\text{NR}_2)_2]_6$ ($\text{R} = \text{H}, \text{Me}$) and their reactions with cobalt(II) chloride and dicobalt octacarbonyl, **12**, 2277

Thermal stability

Thermodynamic parameters of coaxial stacking on stacking hybridization of oligodeoxyribonucleotides, **7**, 1145

Oligoribonucleotides containing an aminoalkyl group at the N(4) atom of cytosine as precursors of new reagents for site-specific modifications of biopolymers, **7**, 1194

Chimeric oligonucleotides based on 2'-*O*-modified oligoribonucleotides with the terminal 3'-3' internucleotide linkage as potential inhibitors of *MDR1* gene expression, **7**, 1217

Photochromic dihetarylethenes. 17. Synthesis and photochromic properties of dithienylethenes containing new heterocyclic bridging fragments, **9**, 1731

Synthesis and properties of ferrocenylalkyl derivatives of indazole, **10**, 1894

Crystal structure and thermal stability of $\text{Ni}_{151.5}\text{Pb}_{24}\text{S}_{92}$. Search for selenium- and tellurium-containing analogs, **12**, 2139

Thermochemical reactions

Photochemistry of benzothiazolylformazanes in solutions, **5**, 839

Thermochromic materials

Photo- and thermochromic spiropyrans. 21. 8'-Formyl-3,6'-dimethyl-4-oxospiro(3,4-dihydro-2*H*-1,3-benzoxazine-2,2'-[2*H*]chromene) possessing photochromic properties in the solid phase, **3**, 462

Thermodynamic parameters

First example of the formation of bipolar spiro σ -complexes from 6-bromo-5,7-dinitrobenzo[*e*]-1,2,3,4-tetrazine 1,3-di-*N*-oxide, **4**, 668

Acetylene—allene rearrangement of propargyl systems $\text{X}-\text{CH}_2-\text{C}\equiv\text{CH}$ ($\text{X} = \text{H}, \text{Me}, \text{NMe}_2, \text{OMe}, \text{F}, \text{SMe}$): an *ab initio* study, **5**, 774

Thermodynamic parameters of coaxial stacking on stacking hybridization of oligodeoxyribonucleotides, **7**, 1145

Reactions between germynes (silylenes) and phosphalkenes: an experimental and theoretical study. Preparation of the first representative of germaphosphacyclopropanes, **8**, 1568

Adsorption of perfluoropropane on the PAC microporous carbon adsorbent, **12**, 2161

Thiazolidine

E-Z-Isomerization of 2-methylenethiazolidin-4-ones, **7**, 1292

Thienodipyridines

First multicomponent synthesis of tricyclic hydrogenated pyridines, **2**, 362

Thienopyrimidines

Application of the Thorpe—Ziegler reaction for the synthesis of functionalized thiophenes, thienopyrimidines, and thienotriazines, **5**, 854

Thieno[3,4-*d*]pyrimidines

Synthesis of thieno[3,4-*d*]pyrimidines by the reactions of 3-amino-4-carbamoylthiophene derivatives with 1,3-dicarbonyl compounds, **10**, 1879

Thienotriazines

Application of the Thorpe—Ziegler reaction for the synthesis of functionalized thiophenes, thienopyrimidines, and thienotriazines, **5**, 854

Thioacylhydrazones

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

Thioalix[4]arenes

Cooperative intramolecular hydrogen bond and conformations of thioalix[4]arene molecules, **5**, 825

1-Thiocarbamoyl(ferrocenyl)-4,5-dihydropyrazoles

1-Thiocarbamoyl(ferrocenyl)-4,5-dihydropyrazoles, **2**, 342

Thiols

Synthesis of β -trifluoroacetyl-substituted vinyl sulfones and vinyl sulfides, **11**, 2080

Thiooxanilic acids

New approach to the synthesis of 2-carbamoylbenzothiazoles, **1**, 144

Thiophenes

Reactions of *N,N*-(dialkyl)arylthioacetamides with dialkyl acetylenedicarboxylates, **4**, 653

Application of the Thorpe—Ziegler reaction for the synthesis of functionalized thiophenes, thienopyrimidines, and thienotriazines, **5**, 854

Synthesis of thieno[3,4-*d*]pyrimidines by the reactions of 3-amino-4-carbamoylthiophene derivatives with 1,3-dicarbonyl compounds, **10**, 1879

Thiophenol

Nitro derivatives of cyclic sulfoximides of the 1,2-benzothiazole series, **8**, 1549

Thiosemicarbazide

1-Thiocarbamoyl(ferrocenyl)-4,5-dihydropyrazoles, **2**, 342

Thorpe—Ziegler cyclization

Application of the Thorpe—Ziegler reaction for the synthesis of functionalized thiophenes, thienopyrimidines, and thienotriazines, **5**, 854

Study of the reactions of 3-chloro-4-cyanobenzo[*b*][1,6]naphthyridine with nucleophilic reagents, **11**, 2121

Three-pulse Goldman—Shen sequence

Features of nuclear magnetic relaxation of water and benzene molecules during absorption on activated carbons and estimation of pore size distribution in adsorbents, **11**, 2036

Thulium compounds

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Time-dependent correlation function

Dynamics of probe in network of polymeric cation exchanger studied by Fourier transform analysis of Mössbauer spectra, **12**, 2196

Tin compounds

New tungsten carbyne complexes containing the triphenylgermyl and triphenylstannyl groups at the carbyne carbon atom $(\text{Bu}^t\text{O})_3\text{W}\equiv\text{C}-\text{EPh}_3$ ($\text{E} = \text{Ge}, \text{Sn}$), **3**, 552

Titanium compounds

Effect of acidity of the medium and polarization of the surface on albumin adsorption by carbon fibers, **6**, 1006

α -Tocopherol

Free radical formation during ethylbenzene oxidation catalyzed by cetyltrimethylammonium bromide, **3**, 449

Toluene

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Three-component synthesis of 3,4-dihydroisoquinoline derivatives, **5**, 844

Tosyl chloride

Easy formation of $\text{S}_\text{N}^{\text{H}}$ products in reactions of indoles and pyrroles with 3-aryl-1,2,4-triazin-5(2*H*)-ones in the presence of tosyl chloride, **6**, 1042

Transetherification

Transetherification of difurazanyl ethers as a route to unsymmetrical derivatives of difurazanyl ether, **4**, 659

Transition metal complexes

Binuclear and polynuclear transition metal complexes with macrocyclic ligands. 2. New macrocyclic Schiff's base in the reaction of 4-*tert*-butyl-2,6-diformylphenol with 1,2-diaminobenzene. Synthesis and structural, spectroscopic, and theoretical study, **3**, 488

Tetranuclear rhenium chalcogenide cluster complexes with a cubane core. Synthesis, structures, and properties (review), **4**, 569

Role of ligands in homogeneous catalysis based on transition metals (review), **6**, 930

Metal-dependent stereochemistry of C—C bond formation under the asymmetric phase transfer catalysis by chiral salen complexes, **11**, 2086

Transition metal compounds

On the possibility of existence of η^4 - π -complexes of corannulene (C₂₀H₁₀) and C₆₀ fullerene derivatives, **2**, 230

Oxidation of ascorbic acid in the presence of phthalocyanine metal complexes. Chemical aspects of catalytic anticancer therapy. 1. Catalysis of oxidation by cobalt octacarboxyphthalocyanine, **7**, 1231

Translation

A fast genetic algorithm for RNA secondary structure analysis, **7**, 1135

Transmetallation

Electrocatalytic reactions involving the Ni^{II}—Zn^{II}—2,2'-bipyridine system, **2**, 269

New method for the synthesis of indenenes, **11**, 2090

Transmission electron microscopy

Adsorption of H₃PW₁₂O₄₀ by porous carbon materials, **2**, 243

Trialkylgermanes

Redox reactions of Ge^{II} and Sn^{II} dihalides with triethylsilane and triethylgermane, **7**, 1325

Trialkylsilanes

Redox reactions of Ge^{II} and Sn^{II} dihalides with triethylsilane and triethylgermane, **7**, 1325

Triallylborane

Stereoselective synthesis of *cis*-4,7-disubstituted 4,7-dihydroxy-4,7-dihydro[2.2]paracyclophanes, **8**, 1483

Triaminoguanidinium salts

Molecular design of tautomeric interconversions of heterocycles (review), **2**, 205

Triarylimidazoles

Excited-state intramolecular proton transfer in 2,4,5-triarylimidazole molecules, **11**, 2050

1,3,6-Triazabicyclo[3.1.0]hexanes

Diastereoselective synthesis of substituted 1,3,6-triazabicyclo[3.1.0]hexanes, **8**, 1497

1,2,3-Triazines

Application of the Thorpe—Ziegler reaction for the synthesis of functionalized thiophenes, thienopyrimidines, and thienotriazines, **5**, 854

1,2,4-Triazino[5,6,1-*i,j*]quinolines

1,2,4-Triazino[5,6,1-*i,j*]quinolines: a new type of tricyclic analogs of fluoroquinolones, **4**, 663

Triazoles

Synthesis of 1,3,5-trisubstituted 1,2,4-triazolio-4-nitroimidates, **7**, 1332

New rearrangement of benzo[*d*]isoxazoles: recyclization of 4-*R*-6-nitrobenzo[*d*]isoxazole-3-carbaldehyde arylhydrazones into 2-aryl-4-(2-hydroxy-4-nitro-6-*R*-phenyl)-1,2,3-triazoles, **8**, 1519

1,2,4-Triazolio-4-nitroimidates

Synthesis of 1,3,5-trisubstituted 1,2,4-triazolio-4-nitroimidates, **7**, 1332

1,2,4-Triazolium 4*N*-nitroimidates

Synthesis of 1,2,4-triazolium 4*N*-nitroimidates by the nitration of 1-substituted 4-amino-1,2,4-triazolium nitrates, **3**, 499

3,6,8-Tribromo-5-nitro-2-trifluoromethylchromones

2-Polyfluoroalkylchromones. 13. Synthesis and nitration of 6,8-dibromo-2-trifluoromethylchromone, **10**, 1954

Tri-*tert*-butoxyaluminum

ESR study of the thermal decomposition of di-*tert*-butoxy-*tert*-butyl alumotrioxide formed in the reaction of tri-*tert*-butoxyaluminum with *tert*-butyl hydroperoxide, **4**, 638

Tributyl phosphate

Chemiluminescence activated by the Tb³⁺ ion in (Bu^{*i*}₂Al)₂O aluminoxane oxidation with dioxygen in toluene, **5**, 904

Tributylstannyl azide

A new approach to the one-pot synthesis of 5-substituted 2-methyl-1,3,4-oxadiazoles from *N*-tributylstannyltetrazoles, **2**, 357

Tributylstannyltetrazoles

A new approach to the one-pot synthesis of 5-substituted 2-methyl-1,3,4-oxadiazoles from *N*-tributylstannyltetrazoles, **2**, 357

Trifluoroacetic acid

Indolopyridines containing a bridgehead heteroatom. 12. Synthesis and reduction of 12-arylidene-5,6-dihydroindolo[2,1-*a*]isoquinolinium trifluoroacetates, **11**, 2116

Trifluoroacetic anhydride

Synthesis of 3-carbamoyl-1,2,4-oxadiazoles, **10**, 1857

Trifluoroacetylacetone

ESR study of weak exchange interactions in binuclear copper(II) complexes with acyldihydrazones of fluorinated β -diketones, **4**, 632

3,3,3-Trifluoroalanine derivatives

A convenient synthesis of 3,3,3-trifluoroalanine derivatives, **11**, 2136

Trifluoromethyl ketone

Synthesis of new CF₃-containing 3,4-dihydro-2*H*-pyrans, **4**, 649

(Trifluoromethyl)oxirane

Novel method for the synthesis of (trifluoromethyl)oxirane, **3**, 550

(Trifluoromethyl)trimethylsilane

New method for trimethylsilylation of hydroxy-containing compounds. Synthesis of persilylated ecdysteroids and carbohydrates, **10**, 1937

Method for mild trimethylsilylation of the 14 α -hydroxy group in ecdysteroids, **10**, 1963

3,3,3-Trifluoropropene

Novel method for the synthesis of (trifluoromethyl)oxirane, **3**, 550

Trifluoropropylene carbonate

Novel method for the synthesis of (trifluoromethyl)oxirane, **3**, 550

Trimethylacetate complexes

Reactions of pyrrole-2,5-dicarbaldehyde with 2-aminodiphenylamine in the presence of nickel and cobalt trimethylacetates, **8**, 1575

Formation of cobalt(III) cations with semiquinonediimine ligands, **8**, 1581

Synthesis and structure of the $\text{Co}_3(\mu, \eta^2\text{-OOCBu}^t)_2(\mu\text{-OOCBu}^t)_4(\text{NEt}_3)_2$ complex containing a linear metal core, **12**, 2310

Trimethylantimony oximates

Synthesis and structures of triphenylantimony oximates, **6**, 1051

(2S,3S)-2,3,6-Trimethylhept-5-en-1-ol

Enzymatic dissymmetrization of *meso*-2,3-di-methylbutane-1,4-diol and its diacetate. Synthesis of scalemic (–)-lasiol, **3**, 481

Trimethylpentanes

Mechanism of reaction of *n*-butane with but-2-enes in the presence of LaCaX faujasites, **5**, 783

2,2,4-Trimethylpent-2-ene

Alkylation of acetylene by *tert*-butyl alcohol, **11**, 2134

Trimethylsilylamide ligands

Half-sandwich complexes of lanthanides with tridentate ligands $[\text{RCH}_2\text{CH}(\text{O})\text{CH}_2\text{OBu}^n]^{2-}$ (R = C_5H_4 , 1- C_9H_6): synthesis, structures, and properties. The crystal structure of the complex $\{[(\eta^5\text{-C}_5\text{H}_4)\text{CH}_2\text{CH}(\mu^2\text{-}\eta^1\text{-O})\text{CH}_2\text{OBu}^n]\text{LaN}(\text{SiMe}_3)_2\}_2$, **4**, 684

Trimethylsilylation

New method for trimethylsilylation of hydroxy-containing compounds. Synthesis of persilylated ecdysteroids and carbohydrates, **10**, 1937

Method for mild trimethylsilylation of the 14 α -hydroxy group in ecdysteroids, **10**, 1963

2,4,6-Trinitrobenzamides

Nitro derivatives of cyclic sulfoximides of the 1,2-benzothiazole series, **8**, 1549

Triphenylantimony oximates

Synthesis and structures of triphenylantimony oximates, **6**, 1051

1,3,5-Triphenyl-2,4-diazapenta-1,4-diene

One-pot synthesis of *rac*-1,2-diphenylethylene-1,2-diamine, **12**, 2308

Triphenyl(2-phenylhydrazinoethyl)phosphonium bromide

Phosphonioethylation of phenylhydrazine and hydroxylamine and selected properties of the resulting derivatives, **9**, 1744

Triphenyl(3-phenylpropadienyl)phosphonium bromide

Reactions of tautomeric quaternary phosphonium salts based on triphenylphosphine and 3-phenylpropargyl bromide with nitrogen nucleophiles, **1**, 148

Triphenyl(3-phenylpropynyl)phosphonium bromides

Reactions of tautomeric quaternary phosphonium salts based on triphenylphosphine and 3-phenylpropargyl bromide with nitrogen nucleophiles, **1**, 148

Triphenylphosphine

Reactions of tautomeric quaternary phosphonium salts based on triphenylphosphine and 3-phenylpropargyl bromide with nitrogen nucleophiles, **1**, 148

Hydrogenation of CO_2 to formic acid in the presence of the Wilkinson complex, **12**, 2165

Triphenylvinylphosphonium bromide

Phosphonioethylation of phenylhydrazine and hydroxylamine and selected properties of the resulting derivatives, **9**, 1744

Triterpene glycosides

Triterpene glycosides from *Pulsatilla chinensis*, **10**, 1945

Tropolone

First example of the formation of bipolar spiro σ -complexes from 6-bromo-5,7-dinitrobenzo[e]-1,2,3,4-tetrazine 1,3-di-*N*-oxide, **4**, 668

Trypsin

Investigation of surface oligonucleotide-binding proteins of eucaryotic cells by affinity modification with reactive oligonucleotide derivatives, **7**, 1204

Tryptamines

Synthesis of α -alkyl- and α,α -dialkyl- β -phenyltryptamines, **1**, 185

Tungsten compounds

Adsorption of $\text{H}_3\text{PW}_{12}\text{O}_{40}$ by porous carbon materials, **2**, 243

New tungsten carbyne complexes containing the triphenylgermyl and triphenylstannyl groups at the carbyne carbon atom (Bu^tO) $_3\text{W}\equiv\text{C}-\text{EPh}_3$ (E = Ge, Sn), **3**, 552

Ring-closing metathesis of 2,2-diallyl derivatives of pyrrolidine and piperidine: a route to azaspiroheterocyclic structures, **4**, 645

Redox reactions of Ge^{II} and Sn^{II} dihalides with triethylsilane and triethylgermane, **7**, 1325

Synthesis and crystal structures of supramolecular adducts of molybdenum and tungsten selenide aqua complexes with macrocyclic cavitand cucurbituril, **10**, 1800

U**Ubiquinone Q₉**

Ubiquinone Q₉ from a marine isolate of an actinobacterium *Nocardia* sp., **10**, 1951

Ultrahigh pressure

Crystalline carbon nitrides: thin films and bulk samples, **9**, 1633

Uranyl ion

Synthesis and crystal structure of supramolecular adduct of tetranuclear uranyl chloride aquacomplex with macrocyclic cavitand cucurbituril, **2**, 346

UV spectroscopy

Heterocyclic analogs of pleadiene. 69. Synthesis and oxidative hydroxylation of 1-alkyl-1,3-diazapyrenium salts, **1**, 139

Synthesis of dichloro derivatives of linear and cyclic permethyloligosilanes and cycloliner permethylpolysilanesiloxanes and permethylpolyoxysilane based on them, **1**, 175

Reactions of carbanions of bis(dialkoxyphosphoryl)bromomethane with fullerenes C₆₀ and C₇₀, **2**, 337

Ring opening in epichlorohydrin and β -methylepichlorohydrin under the action of the [PtCl₄]²⁻ anion in aqueous solutions, **2**, 354

Simulation of optical response to complex formation of crown-containing 2-styrylbenzothiazoles with alkaline-earth metals, **5**, 789

Cooperative intramolecular hydrogen bond and conformations of thiocalix[4]arene molecules, **5**, 825

Crown-containing spironaphthoxazines and spiroopyrans. 3. Synthesis and investigation of the merocyanine form of crown-containing spirobenzothiazolinonaphthoxazine, **8**, 1441

Synthesis of a single isomer of the bis-adduct of isocyanurato-substituted azide with [60]fullerene, **8**, 1491

Synthesis of new functionally substituted fullereno-pyrrolidines, **9**, 1723

Photochromic dihetarylethenes. 17. Synthesis and photochromic properties of dithienylethenes containing new heterocyclic bridging fragments, **9**, 1731

V

Vanadium compounds

Generation of alkyl hypochlorites in oxidation of alcohols with carbon tetrachloride catalyzed by vanadium and manganese compounds, **11**, 2074

Synthesis and study of binuclear vanadyl complexes with acyldihydrazones of salicylaldehyde and dicarboxylic acids, **12**, 2273

Veratrole

Three-component synthesis of 3,4-dihydroisoquinoline derivatives, **5**, 844

Vibrational spectra

IR spectra of hydrogen fluoride solutions in *n*-propanol, **1**, 90

The Mills—Nixon and anomeric effects in 2,3-dihydro-1*H*-1,3,2-benzodiazaphospholes: a gas-phase electron diffraction study of C₆H₄(NMe)₂PCl using quantum-chemical data and "a priori" force field, **11**, 2014

Vilsmeier—Haak reactions

N- and *O*-Alkylation of 3-indolylcyclopropylacetic acid derivatives, **10**, 1829

Vinyl sulfides

Synthesis of new CF₃-containing 3,4-dihydro-2*H*-pyrans, **4**, 649

Reactions of α -fluorine-containing β -functionalized vinyl sulfides with *N*-nucleophiles, **6**, 1020

Synthesis of substituted thiophenes based on fluorine-containing β -functionalized vinyl sulfides, **6**, 1028

Synthesis of β -trifluoroacetyl-substituted vinyl sulfones and vinyl sulfides, **11**, 2080

Vinyl sulfones

Synthesis of β -trifluoroacetyl-substituted vinyl sulfones and vinyl sulfides, **11**, 2080

Vinylidene complexes

Synthesis and molecular structure of the first vinylidene complex [Cp(CO)₂MnCu(μ -C=CHPh)(μ -Cl)]₂ with the Mn—Cu bond, **7**, 1339

Voltammetry

Metallation of fullerenes: electrochemical synthesis and voltammetric study of heterometallic C₆₀ and C₇₀ complexes, **8**, 1588

W

Water

Conceivably the first example of a phase transition in aqueous solutions of oligosaccharide glycosides. Evidence from variable-temperature ¹H NMR and optical rotation measurements for a solution of allyl lactoside, **7**, 1337

Features of nuclear magnetic relaxation of water and benzene molecules during absorption on activated carbons and estimation of pore size distribution in adsorbents, **11**, 2036

Adsorption of surfactants on superfine magnetite, **11**, 2044

Micelle-forming, liquid-crystalline properties, and catalytic effect of the mixed cetyltrimethylammonium bromide—polyethylene glycol(–9) monoalkanoate(–14)—water micellar system, **12**, 2176

White phosphorus

The influence of the sacrificial anode nature on the mechanism of electrochemical arylation and alkylation of white phosphorus, **11**, 2059

Wilkinson complex

Hydrogenation of CO₂ to formic acid in the presence of the Wilkinson complex, **12**, 2165

Wittig reaction

Synthesis of crown-containing 2-styrylbenzothiazoles. Effect of alkali metal cations on the condensation of crown-ether benzaldehydes with 2-methylbenzothiazole, **2**, 319

Wittig—Horner reaction

Chromium arene complexes in synthesis of *trans*-resveratrol, **7**, 1319

X

Xerogel

New polyfunctional silicon-containing amines C₆[CH₂CH₂SiMe(OCH₂CH₂NR₂)₂]₆ (R = H, Me) and their reactions with cobalt(II) chloride and dicobalt octacarbonyl, **12**, 2277

X-ray diffraction analysis

Molecular and crystal structures of 5,7-dichloro-4-nitro-2,1,3-benzoxadiazole and products of its reactions with secondary amines, **1**, 105

Strong intramolecular hydrogen bond N—H...O in 2-(2-acyl-1-phenylethenyl)-5-phenylpyrroles, **1**, 111

Synthesis of new macrocyclic aminomethylphosphines based on 4,4'-diaminodiphenylmethane and its derivatives, **1**, 151

Synthesis and structures of nitroxyalkyl methylphosphonates, **1**, 157

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Synthesis and redox properties of bis-ferrocenylethynyl derivatives of bis(dimethylphosphinoethane)manganese, **1**, 170

Cascade cycloaddition reactions involving dimethylhydrazones of α -substituted acroleins, **2**, 326

Synthesis of (7-polyfluoroalkyl)pyrazolo[1,5-*a*]pyrimidines based on lithium fluorine-containing β -diketonates, **2**, 332

Synthesis and crystal structure of supramolecular adduct of tetranuclear uranyl chloride aquacomplex with macrocyclic cavitand cucurbituril, **2**, 346

Synthesis and the crystal structure of the triosmium cluster with the μ -dehydrobenzene ligand, $\text{Os}_3(\mu\text{-H})_2(\text{CO})_7(\mu\text{-C}_6\text{H}_4)\{\mu_3\text{-Ph}_2\text{PCH}_2\text{P}(\text{C}_6\text{H}_4)\text{Ph}\}$, **2**, 350

First multicomponent synthesis of tricyclic hydrogenated pyridines, **2**, 362

Synthesis and the crystal structure of $[\text{Hg}_6\text{As}_4](\text{InCl}_6)\text{Cl}$: influence of covalent and electrostatic factors on the supramolecular structure, **3**, 444

Photo- and thermochromic spiroyrans. 21. 8'-Formyl-3,6'-dimethyl-4-oxospiro(3,4-dihydro-2*H*-1,3-benzoxazine-2,2'-[2*H*]chromene) possessing photochromic properties in the solid phase, **3**, 462

Redox properties of N_2S_2 -type nickel complexes with aromatic ligands. Crystal structure of $[\text{1,2-C}_6\text{H}_4(\text{SMe})\text{NH}_2]_2\text{Ni}^{2+}(\text{MeCN})_2 \cdot 2\text{ClO}_4^-$, **3**, 467

Binuclear and polynuclear transition metal complexes with macrocyclic ligands. 2. New macrocyclic Schiff's base in the reaction of 4-*tert*-butyl-2,6-diformylphenol with 1,2-diaminobenzene. Synthesis and structural, spectroscopic, and theoretical study, **3**, 488

Reaction of ruthenacarborane with trifluoroacetoxymercuroferrocenylcarborane, **3**, 517

Tetranuclear rhenium chalcogenide cluster complexes with a cubane core. Synthesis, structures, and properties (review), **4**, 569

Reactions of *N,N*-(dialkyl)arylthioacetamides with dialkyl acetylenedicarboxylates, **4**, 653

Heteroorganic betaines. 8. Synthesis and structures of silicon- and germanium-containing organoarsenic betaines $\text{R}^1_3\text{As}^+-\text{CR}^2\text{R}^3-\text{EMe}_2-\text{S}^-$ (E = Si, Ge), **4**, 678

Half-sandwich complexes of lanthanides with tridentate ligands $[\text{RCH}_2\text{CH}(\text{O})\text{CH}_2\text{OBu}^n]^{2-}$ (R = C_5H_4 , 1- C_9H_6): synthesis, structures, and properties. The crystal structure of the complex $\{[\eta^5\text{-C}_5\text{H}_4]\text{CH}_2\text{CH}(\mu^2:\eta^1\text{-O})\text{CH}_2\text{OBu}^n\}[\text{La}(\text{SiMe}_3)_2]_2$, **4**, 684

Transformations of spirocycloaddimers of 1,3-bis(ferrocenylmethylidene)-2-methylidenecycloalkanes in acid medium, **4**, 691

New heteroorganic betaines containing the $(^+)E^{15}-C-E^{14}-X^{(-)}$ and $(^+)E^{15}-C-E^{14(-)}$ structural fragments ($E^{15} = \text{P, As}$; $E^{14} = \text{Si, Ge, Sn}$; $X = \text{C, S, O, NR}$) (review), **5**, 721

Crystal and molecular structures of fluorinated derivatives of C_{60} fullerene, **5**, 754

Chemistry of acyl(imidoyl)ketenes. 7. Synthesis and thermolysis of 5-aryl-4-quinoxaliny-2,3-dihydrofuran-2,3-diones, **5**, 850

23-Electron Re_6 metal clusters: syntheses and crystal structures of $(\text{Ph}_4\text{P})_3[\text{Re}_6\text{S}_8(\text{CN})_6]$, $(\text{Ph}_4\text{P})_2(\text{H})[\text{Re}_6\text{Se}_8(\text{CN})_6] \cdot 8\text{H}_2\text{O}$, and $(\text{Et}_4\text{N})_2(\text{H})[\text{Re}_6\text{Te}_8(\text{CN})_6] \cdot 2\text{H}_2\text{O}$, **5**, 866

Rhenium complexes with pyrazoles. Synthesis and crystal structure of *trans*- $[\text{Re}(\text{O})(\text{OMe})\text{L}_4]\text{Br}_2 \cdot \text{L} \cdot 4\text{H}_2\text{O}$ (L is 3,5-dimethylpyrazole), **5**, 872

Reactions of the $\text{Ru}_3(\text{CO})_{10}(\mu\text{-Ph}_2\text{PCH}_2\text{PPh}_2)$ cluster with enynes $\text{RCH}=\text{CHC}\equiv\text{CR}$ (R is phenyl or ferrocenyl). Formation of indenone derivatives of triruthenium clusters, **5**, 876

Structural organization of phosphorus titanate oxides prepared by the alkoxo method and their catalytic activity in ethylene glycol oxyethylation, **6**, 967

Potentially hexadentate bisazine dioximate ligands: "correct" synthetic procedure and encapsulation reactions of the iron(II) ion, **6**, 1015

Reactions of 2-(2-chloro-4,5-dihydro-3-furyl)-1,3-diphenyl-1,3-diaza-2 λ^3 -phospholidine with nitrile imines, **6**, 1045

Synthesis and structures of triphenylantimony oximates, **6**, 1051

PCP pincer ligands based on metallocenes. Crystal structure of the rhodium complex *cis*- $\text{RhCl}_2(\text{CO})\{[\text{2,5-(Pr}^i\text{PCH}_2)_2\text{C}_3\text{H}_2]\text{Fe}(\text{C}_3\text{H}_5)\}$, **6**, 1077

Synthesis and molecular structure of the first vinylidene complex $[\text{Cp}(\text{CO})_2\text{MnCu}(\mu\text{-C}=\text{CHPh})(\mu\text{-Cl})_2]$ with the Mn—Cu bond, **7**, 1339

Stereoselective synthesis of *cis*-4,7-disubstituted 4,7-dihydroxy-4,7-dihydro[2.2]paracyclophanes, **8**, 1483

Diastereoselective synthesis of substituted 1,3,6-triazabicyclo[3.1.0]hexanes, **8**, 1497

Photochromic dihetarylethenes. 13. Optimization of conditions for the acylation of 2,5-dimethylthiophene with squaric acid dichloride, **8**, 1510

Reactions of 5-dihydrocotarnyl-1,3-dimethylbarbituric acid and other cotarnine derivatives with 1,3-dimethylbarbituric acid. X-ray diffraction analysis of a 5,5-spiro derivative of 1,3-dimethylbarbituric acid, **8**, 1540

Anilinomethylidene derivatives of cyclic 1,3-dicarbonyl compounds in the synthesis of new sulfur-containing pyridines and quinolines, **8**, 1556

2-Phenyl-1-boraadamantane complexes. Crystal structure and use in the synthesis of cage compounds, **8**, 1562

Reactions of pyrrole-2,5-dicarbaldehyde with 2-aminodiphenylamine in the presence of nickel and cobalt trimethylacetates, **8**, 1575

Formation of cobalt(III) cations with semiquinonediimine ligands, **8**, 1581

Single-, double-, and triple-charged cations based on iron-subgroup decamethylmetallocenes (review), **9**, 1616

Crystal structure and fluorescence properties of *p*-nitrobenzoylanisoylmethane and its complex with boron difluoride, **9**, 1715

Photochromic dihetarylethenes. 17. Synthesis and photochromic properties of dithienylethenes containing new heterocyclic bridging fragments, **9**, 1731

Selected properties of bi- and trinuclear complexes prepared by the reactions of Ru₃(CO)₁₂ with β-substituted oxadienes, **9**, 1754

Reaction of 3-(*N*-phenylamino)-1-*p*-tolylprop-2-en-1-one with Ru₃(CO)₁₂, **9**, 1771

Synthesis and crystal structures of supramolecular adducts of molybdenum and tungsten selenide aqua complexes with macrocyclic cavitand cucurbituril, **10**, 1800

Reactions of cyclic enehydrazino ketones with arylidene-malononitriles. Synthesis of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1862

Synthesis of 12-aryl-1-oxo-1,2,3,4,5,12-hexahydro-indolo[2,1-*b*]quinazoline-6-carbonitriles by recyclization of 11-aryl-1-oxo-2,3,4,5,10b,11-hexahydro-1*H*-indolo[2,3-*b*]quinoline-10b-carbonitriles, **10**, 1869

Synthesis and properties of ferrocenylalkyl derivatives of indazole, **10**, 1894

Synthesis and crystal structure of the nanosized supramolecular Sm^{III} complex with macrocyclic cavitand cucurbituril {[Sm(H₂O)₄]₂(C₃₆H₃₆N₂₄O₁₂)₃}Br₆ · 44H₂O, **10**, 1915

First example of the cluster ammine complex [Re₆Se₇Br(NH₃)₆]³⁺: synthesis and structure of the [Re₆Se₇Br(NH₃)₆][Re₆Se₇BrBr₆] · 12H₂O salt, **10**, 1919

(Arene)ruthenium complexes with the monoanionic carborane ligand [9-SMe₂-7,8-C₂B₉H₁₀]⁻, **10**, 1928

Study of alkaloids of the Siberian and Altai flora. 8. Crystal and molecular structure of elatidal methylimine hydrate, **10**, 1965

The Mills—Nixon and anomeric effects in 2,3-dihydro-1*H*-1,3,2-benzodiazaphospholes: a gas-phase electron diffraction study of C₆H₄(NMe)₂PCl using quantum-chemical data and "a priori" force field, **11**, 2014

Adsorption of surfactants on superfine magnetite, **11**, 2044

Cyclization of *O*-benzoyl-β-piperidinopropionamidoximes to form 5-phenyl-3-(β-piperidino)ethyl-1,2,4-oxadiazoles, **11**, 2100

Characteristic features of intra- and intermolecular interactions in crystals of pyrrole-2-carbaldehyde isonicotinoyl hydrazone and its hydrate, **12**, 2224

One-step synthesis of substituted 2-amino-4*H*-chromenes and 2-amino-4*H*-benzo[*f*]chromenes. Molecular and crystal structure of 2-amino-3-cyano-6-hydroxy-4-phenyl-4*H*-benzo[*f*]chromene, **12**, 2238

Synthesis and structure of the Co₃(μ,η²-OOCBu^t)₂-(μ-OOCBu^t)₄(NEt₃)₂ complex containing a linear metal core, **12**, 2310

X-ray imaging diagnostics

Derivatives of the *closo*-dodecaborate anion and their application in medicine (review), **8**, 1362

Xylene

Equilibrium chromatographic characteristics of capillary column coated with polytrimethylpropyne for separating polar and non-polar organic compounds by gas capillary chromatography, **5**, 828

Three-component synthesis of 3,4-dihydroisoquinoline derivatives, **5**, 844

D-Xylopyranose

New method for trimethylsilylation of hydroxy-containing compounds. Synthesis of persilylated ecdysteroids and carbohydrates, **10**, 1937

Y

Ylide

Reactions of tautomeric quaternary phosphonium salts based on triphenylphosphine and 3-phenylpropargyl bromide with nitrogen nucleophiles, **1**, 148

Ytterbium compounds

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Luminescence of lanthanides in complexes with chromophoric crown ethers, **12**, 2303

Z

Zeolites

Synthesis of chromenes with isoprenoid side chains and their selective ozonolysis, **3**, 526

Zinc

Selective reduction of fullerene C₆₀ with metals in neutral and alkaline media. Interaction of C₆₀ with KOH, **11**, 2003

The influence of the sacrificial anode nature on the mechanism of electrochemical arylation and alkylation of white phosphorus, **11**, 2059

Zinc compounds

Electrocatalytic reactions involving the Ni^{II}—Zn^{II}—2,2'-bipyridine system, **2**, 269

Copolymerization of propylene oxide with carbon dioxide catalyzed by zinc adipate, **8**, 1451

Zirconium compounds

Stereoselective formation of *ansa*-metallocenes in reactions of radical-anionic salts of acenaphthylene with lanthanide and calcium halides, **1**, 160

Zwitterionic compounds

Chemical bonding in isolated molecules and crystals of zwitterionic pentacoordinate silicon chelates, **8**, 1423

Zwitterions

Strong intramolecular hydrogen bond N—H...O in 2-(2-acyl-1-phenylethenyl)-5-phenylpyrroles, **1**, 111