

Subject Index of Volume 627

Absolute configuration

- Diastereomeric amides from *rac*-3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene-2-carboxylic acid and (*S*)- α -phenylethylamine: separation and determination of absolute configuration, 135

Alkyne

- Insertion of alkynes into diterpenoid chromium aminocarbenes: synthesis of ring-C aromatic steroidal analogues, 206
- New approach to 1-(phenylethynyl)germatranes and 1-(phenylethynyl)-3,7,10-trimethylgermatrane. Reactions of 1-(phenylethynyl)germatrane with *N*-bromosuccinimide and bromine, 1

Allyl complexes

- Cp*Ru-allylcarbene complexes by nucleophilic attack of cyclic Cp*Ru-dicarbene, 249

π -Allylpalladium

- Synthesis and crystal structure of twisted dinuclear η^3 -allylpalladium complexes containing tetradentate nitrogen ligands, 121

Amide

- Diastereomeric amides from *rac*-3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene-2-carboxylic acid and (*S*)- α -phenylethylamine: separation and determination of absolute configuration, 135

Aminocarbene

- Insertion of alkynes into diterpenoid chromium aminocarbenes: synthesis of ring-C aromatic steroidal analogues, 206

Aqueous solution

- Modified silica-heterogenised catalysts for use in aqueous enantioselective hydrogenations, 37

Arsenic

- Dinuclear molybdenum complexes containing the novel $\mu, \eta^{1:3}$ -As₂ ligand: synthesis and molecular structure of $\{[\text{Cp}^*\text{Mo}_2(\text{CO})_2\text{As}_2\text{S}_4] \cdot 2\text{Cr}(\text{CO})_5\} \cdot 0.5\text{CH}_2\text{Cl}_2$ (Cp* = C₅Me₅), 139

Aryldiazene complexes

- Preparation of aryldiazene complexes of rhodium, 99

Asymmetric hydrogenation

- Modified silica-heterogenised catalysts for use in aqueous enantioselective hydrogenations, 37

Biferrocene

- From dihydropentafulvalenes to asymmetric biferrocene and terferrocene, 71

Bifunctional ligands

- Immobilized rhodium hydrogenation catalysts, 44

Bis- μ -thiolato complexes

- A comparison of the reactions of pentacarbonyliron with cyclic thioethers and related dialkyl sulfides, 201

Bromination

- Bromination of ferrocene chalcone derivatives mediated by β -cyclodextrin, 93
- New approach to 1-(phenylethynyl)germatranes and 1-(phenylethynyl)-3,7,10-trimethylgermatrane. Reactions of 1-(phenylethynyl)germatrane with *N*-bromosuccinimide and bromine, 1

Bromopentaarylcyclopentadienes

- A convenient synthesis of bromopentaarylcyclopentadienes containing methyl or fluorine substituents, 179

Butterfly iron carbonyl complexes

- Synthesis of single and double butterfly iron carbonyl complexes by reactions of $[(\mu\text{-RSe})(\mu\text{-CO})\text{Fe}_2(\text{CO})_6]^-$ anions. Crystal structures of $(\mu\text{-}p\text{-MeC}_6\text{H}_4\text{Se})[\mu\text{-PhCH}_2\text{N}(\text{H})\text{C}=\text{S}]\text{Fe}_2(\text{CO})_6$ and $[(\mu\text{-PhSe})(\mu\text{-MeAs})\text{Fe}_2(\text{CO})_6]_2$, 255

Carbene complexes

- Cp*Ru-allylcarbene complexes by nucleophilic attack of cyclic Cp*Ru-dicarbene, 249

Carboxylic acid

- Diastereomeric amides from *rac*-3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene-2-carboxylic acid and (*S*)- α -phenylethylamine: separation and determination of absolute configuration, 135

Catalysis

- Catalytic addition of ferrocenyl ketones to olefins with the aid of Ru(H)₂(CO)(PPh₃)₃, 127

Catalytic C–H/olefin coupling

- Catalytic addition of ferrocenyl ketones to olefins with the aid of Ru(H)₂(CO)(PPh₃)₃, 127

Catecholato

- Synthesis of *supine-prone* bis(diene)tungsten complexes bearing catecholato and diphenylacetylene ligands, 221

Central chirality

- Diastereomeric amides from *rac*-3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene-2-carboxylic acid and (*S*)- α -phenylethylamine: separation and determination of absolute configuration, 135

C–H bond cleavage

- Catalytic addition of ferrocenyl ketones to olefins with the aid of Ru(H)₂(CO)(PPh₃)₃, 127

Chromium

- Insertion of alkynes into diterpenoid chromium aminocarbenes: synthesis of ring-C aromatic steroidal analogues, 206

Cobaloxime

- Organocobaloximes with mixed dioxime equatorial ligands: a convenient one-pot synthesis. X-ray crystal structures of BnCo^{III}(dmgH)(dpgH)Py and BnCo^{III}(chgH)(dpgH)py, 80

Cobalt

- Organocobaloximes with mixed dioxime equatorial ligands: a convenient one-pot synthesis. X-ray crystal structures of BnCo^{III}(dmgH)(dpgH)Py and BnCo^{III}(chgH)(dpgH)py, 80

CO-bridged anions

- Synthesis of single and double butterfly iron carbonyl complexes by reactions of $[(\mu\text{-RSe})(\mu\text{-CO})\text{Fe}_2(\text{CO})_6]^-$ anions. Crystal structures of $(\mu\text{-}p\text{-MeC}_6\text{H}_4\text{Se})[\mu\text{-PhCH}_2\text{N}(\text{H})\text{C}=\text{S}]\text{Fe}_2(\text{CO})_6$ and $[(\mu\text{-PhSe})(\mu\text{-MeAs})\text{Fe}_2(\text{CO})_6]_2$, 255

Crystal structure

- New approach to 1-(phenylethynyl)germatranes and 1-(phenylethynyl)-3,7,10-trimethylgermatrane. Reactions of 1-(phenylethynyl)germatrane with *N*-bromosuccinimide and bromine, 1

Crystal structures

- Catalytic addition of ferrocenyl ketones to olefins with the aid of $\text{Ru}(\text{H})_2(\text{CO})(\text{PPh}_3)_3$, 127
- Further studies on dialkyltin 1,3-dithiole-2-thione-4,5-dithiolates, $\text{R}_2\text{Sn}(\text{dmit})$. Crystal structures of orthorhombic- and monoclinic- $\text{Et}_2\text{Sn}(\text{dmit})$, and $\text{Me}_2\text{Sn}(\text{dmit})$, 189
- Synthesis, characterisation and optical properties of symmetrical and unsymmetrical Pt(II) and Pd(II) bis-acetylides. Crystal structure of *trans*- $[\text{Pt}(\text{PPh}_3)_2(\text{C}=\text{C}-\text{C}_6\text{H}_5)(\text{C}\equiv\text{C}-\text{C}_6\text{H}_4\text{NO}_2)]$, 13
- Synthesis, structural characterization and ^{57}Fe -Mössbauer spectra of ferrocenylhexasilanes, 167

C–S cleavage

- Unexpected formation of the novel mixed μ -oxo, μ -sulfido, bis(μ -thiolato) compound $[\text{Mo}(\text{IV})_2\text{Cp}_2(\mu\text{-O})(\mu\text{-S})(\mu\text{-SMe})_2]$, 67

Cu(I) complexes

- Copper(I) complexes with the hexaaza fulleroid $\text{C}_{60}(\text{NR})_6$, derived from (2*S*,4*S*)-4-azido-1-benzyloxycarbonyl-2-(*t*-butylaminocarbonyl)pyrrolidine as multitopic ligand. Catalytic properties in oxidation of sulfides, 159

Cyanide bridging

- Cyanide bridged oligonuclear complexes containing CuCl and CuCl_2 , 153

Cyclic thioethers

- A comparison of the reactions of pentacarbonyliron with cyclic thioethers and related dialkyl sulfides, 201

Cyclic voltammetry

- From dihydropentafulvalenes to asymmetric biferrrocene and terferrocene, 71

 β -Cyclodextrin

- Bromination of ferrocene chalcone derivatives mediated by β -cyclodextrin, 93

Cyclopentaannulation

- Insertion of alkynes into diterpenoid chromium aminocarbenes: synthesis of ring-C aromatic steroidal analogues, 206

Cyclopentadienyl

- Synthesis of titanium trichloride complexes of 1,2,3-trisubstituted cyclopentadienyls and their use in styrene polymerization, 233

Cyclopentadienyl complexes

- Vibrational spectra and structure of the cyclopentadienyl-anion (Cp^-), the pentamethylcyclopentadienyl-anion (Cp^{*-}) and of alkali metal cyclopentadienyls CpM and Cp^*M ($\text{M} = \text{Li}, \text{Na}, \text{K}$), 55

Density functional theory

- Vibrational spectra and structure of the cyclopentadienyl-anion (Cp^-), the pentamethylcyclopentadienyl-anion (Cp^{*-}) and of alkali metal cyclopentadienyls CpM and Cp^*M ($\text{M} = \text{Li}, \text{Na}, \text{K}$), 55

Dialkyl sulfides

- A comparison of the reactions of pentacarbonyliron with cyclic thioethers and related dialkyl sulfides, 201

2,2'-Dihydroxy-1,1'-binaphthyl

- Functional chiral hybrid silica gels prepared from (*R*)- or (*S*)-binaphthol derivatives, 239

Dimerization

- Regio- and stereoselective ring-opening dimerization–cross-coupling metathesis of 7-oxanorbornene derivatives, 105

2,3-Dimethylbutadiene

- Synthesis of *supine–prone* bis(diene)tungsten complexes bearing catecholate and diphenylacetylene ligands, 221

Dinuclear complex

- Synthesis and crystal structure of twisted dinuclear η^3 -allylpalladium complexes containing tetradentate nitrogen ligands, 121

Dinuclear complexes

- Unexpected formation of the novel mixed μ -oxo, μ -sulfido, bis(μ -thiolato) compound $[\text{Mo}(\text{IV})_2\text{Cp}_2(\mu\text{-O})(\mu\text{-S})(\mu\text{-SMe})_2]$, 67

Dinuclear, trinuclear and tetranuclear complexes

- Cyanide bridged oligonuclear complexes containing CuCl and CuCl_2 , 153

Dioxime

- Organocobaloximes with mixed dioxime equatorial ligands: a convenient one-pot synthesis. X-ray crystal structures of $\text{BnCo}^{\text{III}}(\text{dmgH})(\text{dpgH})\text{Py}$ and $\text{BnCo}^{\text{III}}(\text{chgH})(\text{dpgH})\text{py}$, 80

Diphenylacetylene

- Synthesis of *supine–prone* bis(diene)tungsten complexes bearing catecholate and diphenylacetylene ligands, 221

1,1'-Diphosphaferrocene

- Diastereomeric amides from *rac*-3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene-2-carboxylic acid and (*S*)- α -phenylethylamine: separation and determination of absolute configuration, 135

Diterpenoid

- Insertion of alkynes into diterpenoid chromium aminocarbenes: synthesis of ring-C aromatic steroidal analogues, 206

1,3-Dithiole-2-thione-4,5-dithiolate

- Further studies on dialkyltin 1,3-dithiole-2-thione-4,5-dithiolates, $\text{R}_2\text{Sn}(\text{dmit})$. Crystal structures of orthorhombic- and monoclinic- $\text{Et}_2\text{Sn}(\text{dmit})$, and $\text{Me}_2\text{Sn}(\text{dmit})$, 189

Electrochemical studies

- Re(V)-oxo-dppf and Re(V)-imido-dppf complexes: synthesis, structure, and properties of $\text{Re}(\text{X})\text{Cl}_3(\text{dppf})$ ($\text{X} = \text{O}, \text{NPh}, \text{N}-\text{C}_6\text{H}_3-2,6\text{-}i\text{-Pr}_2$; $\text{dppf} = \text{Fe}(\eta^5\text{-C}_5\text{H}_4\text{PPh}_2)_2$), 226

Electrochemistry

- Cyanide bridged oligonuclear complexes containing CuCl and CuCl_2 , 153

Electrophiles

- Synthesis of single and double butterfly iron carbonyl complexes by reactions of $[(\mu\text{-RSe})(\mu\text{-CO})\text{Fe}_2(\text{CO})_6]^-$ anions. Crystal structures of $(\mu\text{-}p\text{-MeC}_6\text{H}_4\text{Se})(\mu\text{-PhCH}_2\text{N}(\text{H})\text{C}=\text{S})\text{Fe}_2(\text{CO})_6$ and $[(\mu\text{-PhSe})(\mu\text{-MeAs})\text{Fe}_2(\text{CO})_6]_2$, 255

erythro-Dibromide

- Bromination of ferrocene chalcone derivatives mediated by β -cyclodextrin, 93

Ferrocene

- Catalytic addition of ferrocenyl ketones to olefins with the aid of $\text{Ru}(\text{H})_2(\text{CO})(\text{PPh}_3)_3$, 127

- Synthesis, structural characterization and ^{57}Fe -Mössbauer spectra of ferrocenylhexasilanes, 167

Ferrocenyl chalcone

- Bromination of ferrocene chalcone derivatives mediated by β -cyclodextrin, 93

Free aryldiazene

- Preparation of aryldiazene complexes of rhodium, 99

FTIR

- Vibrational spectra and structure of the cyclopentadienyl-anion (Cp^-), the pentamethylcyclopentadienyl-anion (Cp^{*-}) and of alkali metal cyclopentadienyls CpM and Cp^*M ($\text{M} = \text{Li}, \text{Na}, \text{K}$), 55

FT-Raman spectroscopy

- Vibrational spectra and structure of the cyclopentadienyl-anion (Cp^-), the pentamethylcyclopentadienyl-anion (Cp^{*-}) and of alkali metal cyclopentadienyls CpM and Cp^*M ($\text{M} = \text{Li}, \text{Na}, \text{K}$), 55

[60]Fullerene

- Copper(I) complexes with the hexaaza fulleroid $\text{C}_{60}(\text{NR})_6$, derived from (2*S*,4*S*)-4-azido-1-benzyloxycarbonyl-2-(*t*-butylaminocarbonyl)pyrrolidine as multitopic ligand. Catalytic properties in oxidation of sulfides, 159

Germanium

Five- and six-membered ring Group 14 chalcogenides of the types $(\text{Me}_2\text{ME})_3$ (M = Si, Ge, Sn), $\text{E}(\text{Si}_2\text{Me}_4)_2\text{E}$, $\text{Me}_4\text{Si}_2(\text{E})_2\text{MR}_x$ ($\text{MR}_x = \text{C}(\text{CH}_2)_5$, SiMe_2 , GeMe_2 , SnMe_2 , SnPh_2 , BPh) and $[\text{Me}_4\text{Si}_2(\text{E})_2\text{SiMe}_2]_2$ (E = S, Se, Te), 23

Germatrane

New approach to 1-(phenylethynyl)germatranes and 1-(phenylethynyl)-3,7,10-trimethylgermatrane. Reactions of 1-(phenylethynyl)germatrane with *N*-bromosuccinimide and bromine, 1

Heterogenised catalyst

Modified silica-heterogenised catalysts for use in aqueous enantioselective hydrogenations, 37

Hexaazafulleroid

Copper(I) complexes with the hexaazafulleroid $\text{C}_{60}(\text{NR})_6$, derived from (2*S*,4*S*)-4-azido-1-benzyloxycarbonyl-2-(*t*-butylaminocarbonyl)pyrrolidine as multitopic ligand. Catalytic properties in oxidation of sulfides, 159

Hybrid silica gels

Functional chiral hybrid silica gels prepared from (*R*)- or (*S*)-binaphthol derivatives, 239

Immobilized catalysts

Immobilized rhodium hydrogenation catalysts, 44

Inclusion complex

Bromination of ferrocene chalcone derivatives mediated by β -cyclodextrin, 93

In situ reactions

Synthesis of single and double butterfly iron carbonyl complexes by reactions of $[(\mu\text{-RSe})(\mu\text{-CO})\text{Fe}_2(\text{CO})_6]^-$ anions. Crystal structures of $(\mu\text{-}p\text{-MeC}_6\text{H}_4\text{Se})[\mu\text{-PhCH}_2\text{N}(\text{H})\text{C}=\text{S}]\text{Fe}_2(\text{CO})_6$ and $[(\mu\text{-PhSe})(\mu\text{-MeAs})\text{Fe}_2(\text{CO})_6]_2$, 255

Iron carbonyls

A comparison of the reactions of pentacarbonyliron with cyclic thioethers and related dialkyl sulfides, 201

Iron(II) half-sandwich

From dihydropentafulvalenes to asymmetric biferozene and terferrocene, 71

'Manxane'

Synthesis and spectral characterisation of organotin(IV) 1,3,5-triazine-2,4,6-trithiolato complexes, including the crystal structures of 1,3,5-(R_3Sn) $_3\text{C}_3\text{N}_3\text{S}_3$ (R = Me, Ph), 6

Metallacycles

Cp^*Ru -allylcarbene complexes by nucleophilic attack of cyclic Cp^*Ru -dicarbenes, 249

Metathesis

Regio- and stereoselective ring-opening dimerization–cross-coupling metathesis of 7-oxanorbornene derivatives, 105

Methyl and fluorine substituents

A convenient synthesis of bromopentaarylcyclopentadienes containing methyl or fluorine substituents, 179

Mixed ligands

Dinuclear molybdenum complexes containing the novel $\mu, \eta^{1:3}$ - AsS_2 ligand: synthesis and molecular structure of $\{[\text{Cp}^*\text{Mo}_2(\text{CO})_2\text{As}_2\text{S}_4] \cdot 2\text{Cr}(\text{CO})_5\} \cdot 0.5\text{CH}_2\text{Cl}_2$ ($\text{Cp}^* = \text{C}_5\text{Me}_5$), 139

Mo(IV) complexes

Unexpected formation of the novel mixed μ -oxo, μ -sulfido, bis(μ -thiolato) compound $[\text{Mo}(\text{IV})_2\text{Cp}_2(\mu\text{-O})(\mu\text{-S})(\mu\text{-SMe})_2]$, 67

Molybdenum

Dinuclear molybdenum complexes containing the novel $\mu, \eta^{1:3}$ - AsS_2 ligand: synthesis and molecular structure of $\{[\text{Cp}^*\text{Mo}_2(\text{CO})_2\text{As}_2\text{S}_4] \cdot 2\text{Cr}(\text{CO})_5\} \cdot 0.5\text{CH}_2\text{Cl}_2$ ($\text{Cp}^* = \text{C}_5\text{Me}_5$), 139

Mo–Mo bonding

Unexpected formation of the novel mixed μ -oxo, μ -sulfido, bis(μ -thiolato) compound $[\text{Mo}(\text{IV})_2\text{Cp}_2(\mu\text{-O})(\mu\text{-S})(\mu\text{-SMe})_2]$, 67

Mössbauer

Synthesis and spectral characterisation of organotin(IV) 1,3,5-triazine-2,4,6-trithiolato complexes, including the crystal structures of 1,3,5-(R_3Sn) $_3\text{C}_3\text{N}_3\text{S}_3$ (R = Me, Ph), 6

Mössbauer spectroscopy

Synthesis, structural characterization and ^{57}Fe -Mössbauer spectra of ferrocenylhexasilanes, 167

Norbornane

Synthesis and characterization of 2,5,7-trichalcogena-1,3,4,6-tetrasilanorbornanes $(\text{RMeSiSiMe})_2\text{E}_3$ (R = Me, Ph/E = S, Se, Te), 144

Normal coordinate analysis

Vibrational spectra and structure of the cyclopentadienyl-anion (Cp^-), the pentamethylcyclopentadienyl-anion ($\text{Cp}^{* -}$) and of alkali metal cyclopentadienyls CpM and Cp^*M (M = Li, Na, K), 55

Olefin hydrogenation

Immobilized rhodium hydrogenation catalysts, 44

Optical properties

Synthesis, characterisation and optical properties of symmetrical and unsymmetrical Pt(II) and Pd(II) bis-acetylides. Crystal structure of *trans*- $[\text{Pt}(\text{PPh}_3)_2(\text{C}\equiv\text{C}-\text{C}_6\text{H}_5)(\text{C}\equiv\text{C}-\text{C}_6\text{H}_4\text{NO}_2)]$, 13

Organocobaloxime

Organocobaloximes with mixed dioxime equatorial ligands: a convenient one-pot synthesis. X-ray crystal structures of $\text{BnCo}^{\text{III}}(\text{dmgH})(\text{dpgH})\text{Py}$ and $\text{BnCo}^{\text{III}}(\text{chgH})(\text{dpgH})\text{py}$, 80

Organotin

Further studies on dialkyltin 1,3-dithiole-2-thione-4,5-dithiolates, $\text{R}_2\text{Sn}(\text{dmit})$. Crystal structures of orthorhombic- and monoclinic- $\text{Et}_2\text{Sn}(\text{dmit})$, and $\text{Me}_2\text{Sn}(\text{dmit})$, 189

Oxidation catalysts

Copper(I) complexes with the hexaazafulleroid $\text{C}_{60}(\text{NR})_6$, derived from (2*S*,4*S*)-4-azido-1-benzyloxycarbonyl-2-(*t*-butylaminocarbonyl)pyrrolidine as multitopic ligand. Catalytic properties in oxidation of sulfides, 159

Oxo and sulfido bridges

Unexpected formation of the novel mixed μ -oxo, μ -sulfido, bis(μ -thiolato) compound $[\text{Mo}(\text{IV})_2\text{Cp}_2(\mu\text{-O})(\mu\text{-S})(\mu\text{-SMe})_2]$, 67

Palladium

Synthesis and crystal structure of twisted dinuclear η^3 -allylpalladium complexes containing tetradentate nitrogen ligands, 121

Planar chirality

Diastereomeric amides from *rac*-3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene-2-carboxylic acid and (*S*)- α -phenylethylamine: separation and determination of absolute configuration, 135

Polymerization

Synthesis of titanium trichloride complexes of 1,2,3-trisubstituted cyclopentadienyls and their use in styrene polymerization, 233

Polymorphism

Further studies on dialkyltin 1,3-dithiole-2-thione-4,5-dithiolates, $\text{R}_2\text{Sn}(\text{dmit})$. Crystal structures of orthorhombic- and monoclinic- $\text{Et}_2\text{Sn}(\text{dmit})$, and $\text{Me}_2\text{Sn}(\text{dmit})$, 189

Polysilanes

Synthesis, structural characterization and ^{57}Fe -Mössbauer spectra of ferrocenylhexasilanes, 167

Pt, Pd acetylides

Synthesis, characterisation and optical properties of symmetrical and unsymmetrical Pt(II) and Pd(II) bis-acetylides. Crystal structure of *trans*-[Pt(PPh₃)₂(C≡C–C₆H₅)(C≡C–C₆H₄NO₂)], 13

Regioselective synthesis

Regio- and stereoselective ring-opening dimerization–cross-coupling metathesis of 7-oxanorbornene derivatives, 105

Regiospecific reactions

A convenient synthesis of bromopentaarylcyclopentadienes containing methyl or fluorine substituents, 179

Re(V)–imido complexes

Re(V)–oxo–dppf and Re(V)–imido–dppf complexes: synthesis, structure, and properties of Re(X)Cl₃(dppf) (X = O, NPh, *N*-C₆H₃-2,6-*i*-Pr₂; dppf = Fe(η⁵-C₅H₄PPh₂)₂), 226

Re(V)–oxo complexes

Re(V)–oxo–dppf and Re(V)–imido–dppf complexes: synthesis, structure, and properties of Re(X)Cl₃(dppf) (X = O, NPh, *N*-C₆H₃-2,6-*i*-Pr₂; dppf = Fe(η⁵-C₅H₄PPh₂)₂), 226

Rhodium

Modified silica-heterogenised catalysts for use in aqueous enantioselective hydrogenations, 37

Preparation of aryldiazene complexes of rhodium, 99

Rhodium complexes

Immobilized rhodium hydrogenation catalysts, 44

RSe-bridged anions

Synthesis of single and double butterfly iron carbonyl complexes by reactions of [(μ-RSe)(μ-CO)Fe₂(CO)₆][−] anions. Crystal structures of (μ-*p*-MeC₆H₄Se)[μ-PhCH₂N(H)C=S]Fe₂(CO)₆ and [(μ-PhSe)(μ-MeAs)Fe₂(CO)₆]₂, 255

Ru(H)₂CO(PPh₃)₃

Catalytic addition of ferrocenyl ketones to olefins with the aid of Ru(H)₂CO(PPh₃)₃, 127

Ruthenium

Cp*Ru-allylcarbene complexes by nucleophilic attack of cyclic Cp*Ru-dicarbenes, 249

Modified silica-heterogenised catalysts for use in aqueous enantioselective hydrogenations, 37

Regio- and stereoselective ring-opening dimerization–cross-coupling metathesis of 7-oxanorbornene derivatives, 105

Selenides

Five- and six-membered ring Group 14 chalcogenides of the types (Me₂ME)₃ (M = Si, Ge, Sn), E(Si₂Me₄)₂E, Me₄Si₂(E)₂MR_x (MR_x = C(CH₂)₅, SiMe₂, GeMe₂, SnMe₂, SnPh₂, BPh) and [Me₄Si₂(E)₂SiMe–]₂ (E = S, Se, Te), 23

Selenium

Synthesis and characterization of 2,5,7-trichalcogena-1,3,4,6-tetrasilanorbornanes (RMeSiSiMe)₂E₃ (R = Me, Ph/E = S, Se, Te), 144

Silane

Synthesis and characterization of 2,5,7-trichalcogena-1,3,4,6-tetrasilanorbornanes (RMeSiSiMe)₂E₃ (R = Me, Ph/E = S, Se, Te), 144

Silica

Modified silica-heterogenised catalysts for use in aqueous enantioselective hydrogenations, 37

Silica support

Immobilized rhodium hydrogenation catalysts, 44

Silthiane

Synthesis and characterization of 2,5,7-trichalcogena-1,3,4,6-tetrasilanorbornanes (RMeSiSiMe)₂E₃ (R = Me, Ph/E = S, Se, Te), 144

Silthianes

Five- and six-membered ring Group 14 chalcogenides of the types (Me₂ME)₃ (M = Si, Ge, Sn), E(Si₂Me₄)₂E, Me₄Si₂(E)₂MR_x (MR_x = C(CH₂)₅, SiMe₂, GeMe₂, SnMe₂, SnPh₂, BPh) and [Me₄Si₂(E)₂SiMe–]₂ (E = S, Se, Te), 23

Solid-state NMR

Immobilized rhodium hydrogenation catalysts, 44

(2*S*,4*S*)-4-Azido-1-benzyloxycarbonyl-2-(*t*-butylaminocarbonyl)pyrrolidine

Copper(I) complexes with the hexaazafulleroid C₆₀(NR)₆, derived from (2*S*,4*S*)-4-azido-1-benzyloxycarbonyl-2-(*t*-butylaminocarbonyl)pyrrolidine as multitopic ligand. Catalytic properties in oxidation of sulfides, 159

Steroidal

Insertion of alkynes into diterpenoid chromium aminocarbenes: synthesis of ring-C aromatic steroidal analogues, 206

Structure

Dinuclear molybdenum complexes containing the novel μ,η^{1:3}-AsS₂ ligand: synthesis and molecular structure of [{Cp*Mo₂(CO)₂As₂S₄}·2Cr(CO)₅]₂·0.5CH₂Cl₂ (Cp* = C₅Me₅), 139

Structures

Cyanide bridged oligonuclear complexes containing CuCl and CuCl₂, 153

Styrene

Synthesis of titanium trichloride complexes of 1,2,3-trisubstituted cyclopentadienyls and their use in styrene polymerization, 233

Sulfur

Dinuclear molybdenum complexes containing the novel μ,η^{1:3}-AsS₂ ligand: synthesis and molecular structure of [{Cp*Mo₂(CO)₂As₂S₄}·2Cr(CO)₅]₂·0.5CH₂Cl₂ (Cp* = C₅Me₅), 139

Syndiotactic

Synthesis of titanium trichloride complexes of 1,2,3-trisubstituted cyclopentadienyls and their use in styrene polymerization, 233

Tellurides

Five- and six-membered ring Group 14 chalcogenides of the types (Me₂ME)₃ (M = Si, Ge, Sn), E(Si₂Me₄)₂E, Me₄Si₂(E)₂MR_x (MR_x = C(CH₂)₅, SiMe₂, GeMe₂, SnMe₂, SnPh₂, BPh) and [Me₄Si₂(E)₂SiMe–]₂ (E = S, Se, Te), 23

Tellurium

Synthesis and characterization of 2,5,7-trichalcogena-1,3,4,6-tetrasilanorbornanes (RMeSiSiMe)₂E₃ (R = Me, Ph/E = S, Se, Te), 144

Terferrocene

From dihydropentafulvalenes to asymmetric biferrocene and terferrocene, 71

Tetrahydrofurans

Regio- and stereoselective ring-opening dimerization–cross-coupling metathesis of 7-oxanorbornene derivatives, 105

Tin

Five- and six-membered ring Group 14 chalcogenides of the types (Me₂ME)₃ (M = Si, Ge, Sn), E(Si₂Me₄)₂E, Me₄Si₂(E)₂MR_x (MR_x = C(CH₂)₅, SiMe₂, GeMe₂, SnMe₂, SnPh₂, BPh) and [Me₄Si₂(E)₂SiMe–]₂ (E = S, Se, Te), 23

Synthesis and spectral characterisation of organotin(IV) 1,3,5-triazine-2,4,6-trithiolato complexes, including the crystal structures of 1,3,5-(R₃Sn)₃C₃N₃S₃ (R = Me, Ph), 6

Titanium

Synthesis of titanium trichloride complexes of 1,2,3-trisubstituted cyclopentadienyls and their use in styrene polymerization, 233

1,3,5-Triazine-2,4,6-trithiolato

Synthesis and spectral characterisation of organotin(IV) 1,3,5-triazine-2,4,6-trithiolato complexes, including the crystal structures of 1,3,5-(R₃Sn)₃C₃N₃S₃ (R = Me, Ph), 6

Tungsten

Synthesis of *supine-prone* bis(diene)tungsten complexes bearing

catecholate and diphenylacetylene ligands, 221

X-ray structures

Synthesis of single and double butterfly iron carbonyl complexes by reactions of [(μ-RSe)(μ-CO)Fe₂(CO)₆]⁻ anions. Crystal structures of (μ-*p*-MeC₆H₄Se)[μ-PhCH₂N(H)C=S]Fe₂(CO)₆ and [(μ-PhSe)(μ-MeAs)Fe₂(CO)₆]₂, 255