

Subject Index of Volume 650

- Acetate**
Reactions of the cationic diruthenium carbonyl complex $[\text{Ru}_2(\mu\text{-dppm})_2(\text{CO})_4(\mu,\eta^2\text{-O}_2\text{CMe})]^+$ with bidentate ligands; intramolecularly assisted stereospecific synthesis via the second-sphere face-to-face $\pi\text{-}\pi$ stacking interactions, 268
- Acetylacetonate**
Reactions of the cationic diruthenium carbonyl complex $[\text{Ru}_2(\mu\text{-dppm})_2(\text{CO})_4(\mu,\eta^2\text{-O}_2\text{CMe})]^+$ with bidentate ligands; intramolecularly assisted stereospecific synthesis via the second-sphere face-to-face $\pi\text{-}\pi$ stacking interactions, 268
- Alcohols**
Catalytic oxidation of alcohols with allyl diethyl phosphate and palladium acetate, 151
- Alkyl isocyanide**
Syntheses, X-ray structures, and reactions of ruthenium carbonyl complexes containing 1,1-dithiolates, 37
- Alkyne**
Ruthenium cluster carbonyls containing ligands derived from ferrocenylalkynes, 188
- Alkynyl**
Reactions of $\text{Ru}(\text{C}\equiv\text{CPh})(\text{L}_2)\text{Cp}^*$ ($\text{L}_2 = \text{dppm}, \text{dppe}$) with tetra-cyanoethene: cycloaddition, formation of monodentate dppm and dppmO complexes and migration of CN to ruthenium, 141
- Allene**
The marked influence of steric and electronic properties of ancillary pyridylthioether ligands on the rate of allene insertion into the palladium–carbon bond, 43
- Allyl**
New studies on the apparent allyl rotation in scorpion-like palladium complexes. The influence of non-directly bonded groups. X-ray molecular structures of $[\text{Pd}(\eta^3\text{-2-Me-C}_3\text{H}_4)\text{L}]\text{TfO}$, $\text{L} = \text{bpzmArOMe}$ and bpz^*mCy , 210
- Allyl diethyl phosphate**
Catalytic oxidation of alcohols with allyl diethyl phosphate and palladium acetate, 151
- Allylic alcohols**
Homogeneously catalysed isomerisation of allylic alcohols to carbonyl compounds, 1
- Arsinium anion**
Synthesis, X-ray absorption spectroscopy and purification of the seleno-bis (*S*-glutathionyl) arsinium anion from selenide, arsenite and glutathione, 108
- Bidentate chiral ligand**
Synthesis of a novel copper(II) complex and its crystal structure, 274
- 2,2'-Bipyridine**
Reactions of the cationic diruthenium carbonyl complex $[\text{Ru}_2(\mu\text{-dppm})_2(\text{CO})_4(\mu,\eta^2\text{-O}_2\text{CMe})]^+$ with bidentate ligands; intramolecularly assisted stereospecific synthesis via the second-sphere face-to-face $\pi\text{-}\pi$ stacking interactions, 268
- Bis(diphenylphosphinomethyl)amine**
Tricarbonylrhenium(I) complexes of phosphine-derivatized amines, amino acids and a model peptide: structures, solution behavior and cytotoxicity, 123
- Bisphosphonates**
Michael addition of Grignard reagents to tetraethyl ethenylidenebisphosphonate, 77
- Bis(pyrazolyl)**
New studies on the apparent allyl rotation in scorpion-like palladium complexes. The influence of non-directly bonded groups. X-ray molecular structures of $[\text{Pd}(\eta^3\text{-2-Me-C}_3\text{H}_4)\text{L}]\text{TfO}$, $\text{L} = \text{bpzmArOMe}$ and bpz^*mCy , 210
- Bridged binuclear**
Dimeric cyclopalladated azobenzenes: structural differences between 2-hydroxypyridine and 2-mercaptopyridine bridged complexes, 202
- Carbon dioxide**
Investigation of the hydroformylation of ethylene in liquid carbon dioxide, 249
- Carbonyl**
Mixed-metal cluster chemistry: Part 20. Syntheses, crystal structures and electrochemical studies of $\text{W}_2\text{Ir}_2(\mu\text{-L})(\text{CO})_8(\eta^5\text{-C}_5\text{H}_4\text{Me})_2$ ($\text{L} = \text{dppe}, \text{dppf}$), 133
Reactions of the cationic diruthenium carbonyl complex $[\text{Ru}_2(\mu\text{-dppm})_2(\text{CO})_4(\mu,\eta^2\text{-O}_2\text{CMe})]^+$ with bidentate ligands; intramolecularly assisted stereospecific synthesis via the second-sphere face-to-face $\pi\text{-}\pi$ stacking interactions, 268
Syntheses, X-ray structures, and reactions of ruthenium carbonyl complexes containing 1,1-dithiolates, 37
Tricarbonylrhenium(I) complexes of phosphine-derivatized amines, amino acids and a model peptide: structures, solution behavior and cytotoxicity, 123
- Carbonyl complexes**
Reaction of silylpentacarbonylmanganese with hydride-transfer reagents: reduction of carbonyl ligands accompanied with Si–C and C–C coupling, 91
- Carbonyl compounds**
Homogeneously catalysed isomerisation of allylic alcohols to carbonyl compounds, 1
- Carboranes**
Molecular construction based on icosahedral carboranes and aromatic *N,N'*-dimethylurea groups. Aromatic layered molecules and a transition metal complex, 0
- Carbosilane**
Synthesis of polysilanes bearing pendant carbosilyl groups and ^{29}Si -NMR probe on the tacticity using side chain silicon atoms, 223
- Catalysis**
Synthesis, characterization and catalytic activity in Heck-type reactions of orthometallated Pd^{II} and Pt^{II} complexes derived from (1*R*,2*R*)-1,2-diaminocyclohexane, 157
- C–C coupling**
Reaction of silylpentacarbonylmanganese with hydride-transfer reagents: reduction of carbonyl ligands accompanied with Si–C and C–C coupling, 91

Chiral

Synthesis, characterization and catalytic activity in Heck-type reactions of orthometallated Pd^{II} and Pt^{II} complexes derived from (1*R*,2*R*)-1,2-diaminocyclohexane, 157

Chiral copper(II) complex

Synthesis of a novel copper(II) complex and its crystal structure, 274

Cluster

Mixed-metal cluster chemistry: Part 20. Syntheses, crystal structures and electrochemical studies of W₂Ir₂(μ-L)(CO)₈(η⁵-C₅H₄Me)₂ (L = dppe, dppf), 133

Cluster complexes

Synthesis, characterization of new Rh–Co mixed-metal clusters and reactions of clusters containing [Rh₂Co₂C₂] core with 1-alkynes and/or carbon monoxide, 181

C–N bond activation

Ruthenium-catalyzed reductive cyclization of nitroarenes with trialkylamines leading to quinolines, 65

Cobalt

Cobalt and nickel complexes bearing 2,6-bis(imino) phenoxy ligands: syntheses, structures and oligomerization studies, 59

Complexes

The first 2,3-dihydro-1*H*-[1,2,4] triphosphole, 198

Crystal structure

Synthesis and characterization of planarly chiral nonbridged bis(1-*R*-indenyl) zirconium dichloride complexes and X-ray structure of *rac*-[(η⁵-C₉H₆-1-C(CH₃)₂-*o*-C₆H₄-OCH₃)₂-ZrCl₂]-THF, 114

Synthesis and structural behavior of the P-functional organotin chlorides [Ph₂P(CH₂)₃]₂SnCl₂, Ph₂P(CH₂)₃SnCl₂Me, and Ph₂P(CH₂)_{*n*}SnCl₃ (*n* = 2, 3), 25

Synthesis, characterization of new Rh–Co mixed-metal clusters and reactions of clusters containing [Rh₂Co₂C₂] core with 1-alkynes and/or carbon monoxide, 181

Synthesis of a novel copper(II) complex and its crystal structure, 274

Crystal structures

Cobalt and nickel complexes bearing 2,6-bis(imino) phenoxy ligands: syntheses, structures and oligomerization studies, 59

Cycloaddition

Reactions of Ru(C≡CPh)(L₂)Cp* (L₂ = dpdm, dppe) with tetra-cyanoethene: cycloaddition, formation of monodentate dpdm and dpdmO complexes and migration of CN to ruthenium, 141

Cyclopalladated

Synthesis, characterization and reactivity of palladium(II) compounds containing terdentate [Csp², N, S][−] or [Csp³, N, S][−] ligands, 258

Cyclopalladated azobenzenes

Dimeric cyclopalladated azobenzenes: structural differences between 2-hydroxypyridine and 2-mercaptopyridine bridged complexes, 202

Cyclopentadienyl

Mixed-metal cluster chemistry: Part 20. Syntheses, crystal structures and electrochemical studies of W₂Ir₂(μ-L)(CO)₈(η⁵-C₅H₄Me)₂ (L = dppe, dppf), 133

Cyclopentylcyclopentadienyl

Synthesis and characterization of (C₅H₉C₉H₆)₂Yb(THF)₂(II) (**1**) and [(C₅H₉C₅H₄)₂Yb(THF)]₂O₂ (**2**), and ring-opening polymerization of lactones with **1**, 84

Cyclopentylindenyl

Synthesis and characterization of (C₅H₉C₉H₆)₂Yb(THF)₂(II) (**1**) and [(C₅H₉C₅H₄)₂Yb(THF)]₂O₂ (**2**), and ring-opening polymerization of lactones with **1**, 84

Cytotoxicity

Tricarbonylrhodium(I) complexes of phosphine-derivatized amines, amino acids and a model peptide: structures, solution behavior and cytotoxicity, 123

Deconvolution

Synthesis of polysilanes bearing pendant carbosilyl groups and ²⁹Si-NMR probe on the tacticity using side chain silicon atoms, 223

Dehydropolymerization

Synthesis of polysilanes bearing pendant carbosilyl groups and ²⁹Si-NMR probe on the tacticity using side chain silicon atoms, 223

Dithiocarbamate

Syntheses, X-ray structures, and reactions of ruthenium carbonyl complexes containing 1,1-dithiolates, 37

Dithiophosphate

Syntheses, X-ray structures, and reactions of ruthenium carbonyl complexes containing 1,1-dithiolates, 37

Diyne

Ruthenium cluster carbonyls containing ligands derived from ferrocenylalkynes, 188

Electrochemistry

Dimeric cyclopalladated azobenzenes: structural differences between 2-hydroxypyridine and 2-mercaptopyridine bridged complexes, 202

Electrospray mass spectrometry

Tricarbonylrhodium(I) complexes of phosphine-derivatized amines, amino acids and a model peptide: structures, solution behavior and cytotoxicity, 123

Ethylene

Investigation of the hydroformylation of ethylene in liquid carbon dioxide, 249

Ethylene oligomerization

Cobalt and nickel complexes bearing 2,6-bis(imino) phenoxy ligands: syntheses, structures and oligomerization studies, 59

Ferrocene

Ruthenium cluster carbonyls containing ligands derived from ferrocenylalkynes, 188

Functionally substituted 1-alkynes

Synthesis, characterization of new Rh–Co mixed-metal clusters and reactions of clusters containing [Rh₂Co₂C₂] core with 1-alkynes and/or carbon monoxide, 181

Gas-phase chemistry

Kinetics of the gas phase reactions of the ion C₅H₅Fe⁺ with substituted pyridines, 69

Grignard reagents

Michael addition of Grignard reagents to tetraethyl ethenylidenebisphosphonate, 77

Guaiazulene

Preparation, structures, and haptotropic rearrangement of novel dinuclear ruthenium complexes, (μ₂,η³:η⁵-guaiazulene)-Ru₂(CO)₄(CNR), 96

Haptotropic rearrangement

Preparation, structures, and haptotropic rearrangement of novel dinuclear ruthenium complexes, (μ₂,η³:η⁵-guaiazulene)-Ru₂(CO)₄(CNR), 96

Heck reactions

Synthesis, characterization and catalytic activity in Heck-type reactions of orthometallated Pd^{II} and Pt^{II} complexes derived from (1*R*,2*R*)-1,2-diaminocyclohexane, 157

Hexacoordination

Synthesis and structural behavior of the P-functional organotin chlorides $[\text{Ph}_2\text{P}(\text{CH}_2)_3]_2\text{SnCl}_2$, $\text{Ph}_2\text{P}(\text{CH}_2)_3\text{SnCl}_2\text{Me}$, and $\text{Ph}_2\text{P}(\text{CH}_2)_n\text{SnCl}_3$ ($n = 2, 3$), 25

High pressure NMR

Investigation of the hydroformylation of ethylene in liquid carbon dioxide, 249

Homogeneous catalysis

Homogeneously catalysed isomerisation of allylic alcohols to carbonyl compounds, 1

Hydroformylation

Investigation of the hydroformylation of ethylene in liquid carbon dioxide, 249

Hydrosilylation

Iminophosphines: synthesis, formation of 2,3-dihydro-1*H*-benzo[1,3]azaphosphol-3-ium salts and *N*-(pyridin-2-yl)-2-diphenylphosphinoylaniline, coordination chemistry and applications in platinum group catalyzed Suzuki coupling reactions and hydrosilylations, 231

Synthesis of polysilanes bearing pendant carbosilyl groups and ^{29}Si -NMR probe on the tacticity using side chain silicon atoms, 223

Hydrostannation

Stereoselective hydrostannation of substituted alkynes with tri-niophyltin hydride, 173

2-Hydroxypyridine

Dimeric cyclopalladated azobenzenes: structural differences between 2-hydroxypyridine and 2-mercaptopyridine bridged complexes, 202

Iminophosphines

Iminophosphines: synthesis, formation of 2,3-dihydro-1*H*-benzo[1,3]azaphosphol-3-ium salts and *N*-(pyridin-2-yl)-2-diphenylphosphinoylaniline, coordination chemistry and applications in platinum group catalyzed Suzuki coupling reactions and hydrosilylations, 231

Insertion mechanism

The marked influence of steric and electronic properties of ancillary pyridylthioether ligands on the rate of allene insertion into the palladium–carbon bond, 43

Ion–molecule reactions

Kinetics of the gas phase reactions of the ion $\text{C}_5\text{H}_5\text{Fe}^+$ with substituted pyridines, 69

Iridium

Mixed-metal cluster chemistry: Part 20. Syntheses, crystal structures and electrochemical studies of $\text{W}_2\text{Ir}_2(\mu\text{-L})(\text{CO})_8(\eta^5\text{-C}_5\text{H}_4\text{Me})_2$ ($\text{L} = \text{dppe}, \text{dppf}$), 133

Isomerisation

Homogeneously catalysed isomerisation of allylic alcohols to carbonyl compounds, 1

Isonitrile complexes

Preparation, structures, and haptotropic rearrangement of novel dinuclear ruthenium complexes, $(\mu_2, \eta^3, \eta^5\text{-guaiazulene})\text{Ru}_2(\text{CO})_4(\text{CNR})$, 96

Kinetics

Kinetics of the gas phase reactions of the ion $\text{C}_5\text{H}_5\text{Fe}^+$ with substituted pyridines, 69

Lactones

Synthesis and characterization of $(\text{C}_5\text{H}_9\text{C}_9\text{H}_6)_2\text{Yb}(\text{THF})_2(\text{II})$ (**1**) and $[(\text{C}_5\text{H}_9\text{C}_5\text{H}_4)_2\text{Yb}(\text{THF})_2\text{O}_2]$ (**2**), and ring-opening polymerization of lactones with **1**, 84

Lanthanocene

Synthesis and characterization of $(\text{C}_5\text{H}_9\text{C}_9\text{H}_6)_2\text{Yb}(\text{THF})_2(\text{II})$ (**1**) and $[(\text{C}_5\text{H}_9\text{C}_5\text{H}_4)_2\text{Yb}(\text{THF})_2\text{O}_2]$ (**2**), and ring-opening polymerization of lactones with **1**, 84

Lead

A new, tetragonal, helical phase of plumbocene, Cp_2Pb ; variations on a molecular string ($\text{Cp} = \text{C}_5\text{H}_5$), 75

Lithium triphospha-cyclopentenyl

The first 2,3-dihydro-1*H*-[1,2,4] triphosphole, 198

Manganese complexes

Reaction of silylpentacarbonylmanganese with hydride-transfer reagents: reduction of carbonyl ligands accompanied with Si–C and C–C coupling, 91

Mass spectrometry

Kinetics of the gas phase reactions of the ion $\text{C}_5\text{H}_5\text{Fe}^+$ with substituted pyridines, 69

2-Mercaptopyridine

Dimeric cyclopalladated azobenzenes: structural differences between 2-hydroxypyridine and 2-mercaptopyridine bridged complexes, 202

Metallocene

A new, tetragonal, helical phase of plumbocene, Cp_2Pb ; variations on a molecular string ($\text{Cp} = \text{C}_5\text{H}_5$), 75

Michael addition

Michael addition of Grignard reagents to tetraethyl ethenylidenebisphosphonate, 77

Microstructure

Synthesis of polysilanes bearing pendant carbosilyl groups and ^{29}Si -NMR probe on the tacticity using side chain silicon atoms, 223

Mixed-metal

Synthesis, characterization of new Rh–Co mixed-metal clusters and reactions of clusters containing $[\text{Rh}_2\text{Co}_2\text{C}_2]$ core with 1-alkynes and/or carbon monoxide, 181

Multidentate

Iminophosphines: synthesis, formation of 2,3-dihydro-1*H*-benzo[1,3]azaphosphol-3-ium salts and *N*-(pyridin-2-yl)-2-diphenylphosphinoylaniline, coordination chemistry and applications in platinum group catalyzed Suzuki coupling reactions and hydrosilylations, 231

Nickel

Cobalt and nickel complexes bearing 2,6-bis(imino) phenoxy ligands: syntheses, structures and oligomerization studies, 59

Nitroarenes

Ruthenium-catalyzed reductive cyclization of nitroarenes with trialkylamines leading to quinolines, 65

NMR spectroscopy

Synthesis and structural behavior of the P-functional organotin chlorides $[\text{Ph}_2\text{P}(\text{CH}_2)_3]_2\text{SnCl}_2$, $\text{Ph}_2\text{P}(\text{CH}_2)_3\text{SnCl}_2\text{Me}$, and $\text{Ph}_2\text{P}(\text{CH}_2)_n\text{SnCl}_3$ ($n = 2, 3$), 25

Nonbridged bis(1-*R*-indenyl) ligand

Synthesis and characterization of planarly chiral nonbridged bis(1-*R*-indenyl) zirconium dichloride complexes and X-ray structure of *rac*- $[(\eta^5\text{-C}_9\text{H}_6\text{-1-C}(\text{CH}_3)_2\text{-o-C}_6\text{H}_4\text{-OCH}_3)_2\text{-ZrCl}_2]\cdot\text{THF}$, 114

Organotin

Synthesis and structural behavior of the P-functional organotin chlorides $[\text{Ph}_2\text{P}(\text{CH}_2)_3]_2\text{SnCl}_2$, $\text{Ph}_2\text{P}(\text{CH}_2)_3\text{SnCl}_2\text{Me}$, and $\text{Ph}_2\text{P}(\text{CH}_2)_n\text{SnCl}_3$ ($n = 2, 3$), 25

Orthometallated

Synthesis, characterization and catalytic activity in Heck-type reactions of orthometallated Pd^{II} and Pt^{II} complexes derived from (1*R*,2*R*)-1,2-diaminocyclohexane, 157

Oxidation

Catalytic oxidation of alcohols with allyl diethyl phosphate and palladium acetate, 151

Palladium

New studies on the apparent allyl rotation in scorpion-like palladium complexes. The influence of non-directly bonded groups. X-ray molecular structures of $[\text{Pd}(\eta^3\text{-}2\text{-Me-C}_3\text{H}_4)\text{L}]\text{TfO}$, $\text{L} = \text{bpzmArOMe}$ and bpz^*mCy , 210

Synthesis, characterization and catalytic activity in Heck-type reactions of orthometallated Pd^{II} and Pt^{II} complexes derived from (1*R*,2*R*)-1,2-diaminocyclohexane, 157

Synthesis, characterization and reactivity of palladium(II) compounds containing terdentate $[\text{Csp}^2, \text{N}, \text{S}]^-$ or $[\text{Csp}^3, \text{N}, \text{S}]^-$ ligands, 258

Palladium acetate

Catalytic oxidation of alcohols with allyl diethyl phosphate and palladium acetate, 151

Palladium–carbon bond

The marked influence of steric and electronic properties of ancillary pyridylthioether ligands on the rate of allene insertion into the palladium–carbon bond, 43

Palladium catalysis

Stereoselective hydrostannylation of substituted alkynes with tri-niophylltin hydride, 173

Pentacoordination

Synthesis and structural behavior of the P-functional organotin chlorides $[\text{Ph}_2\text{P}(\text{CH}_2)_3]_2\text{SnCl}_2$, $\text{Ph}_2\text{P}(\text{CH}_2)_3\text{SnCl}_2\text{Me}$, and $\text{Ph}_2\text{P}(\text{CH}_2)_n\text{SnCl}_3$ ($n = 2, 3$), 25

Phosphine

Mixed-metal cluster chemistry: Part 20. Syntheses, crystal structures and electrochemical studies of $\text{W}_2\text{Ir}_2(\mu\text{-L})(\text{CO})_8(\eta^5\text{-C}_5\text{H}_4\text{Me})_2$ ($\text{L} = \text{dppe}$, dppf), 133

Phosphinidenes

Reactivity of electrophilic terminal phosphinidene complexes toward phosphorus ylides, 57

Phosphorus ylides

Reactivity of electrophilic terminal phosphinidene complexes toward phosphorus ylides, 57

Planar chirality

Synthesis and characterization of planarly chiral nonbridged bis(1-*R*-indenyl) zirconium dichloride complexes and X-ray structure of *rac*- $[(\eta^5\text{-C}_9\text{H}_6\text{-}1\text{-C}(\text{CH}_3)_2\text{-}o\text{-C}_6\text{H}_4\text{-OCH}_3)_2\text{-ZrCl}_2]\cdot\text{THF}$, 114

Platinum

Synthesis, characterization and catalytic activity in Heck-type reactions of orthometallated Pd^{II} and Pt^{II} complexes derived from (1*R*,2*R*)-1,2-diaminocyclohexane, 157

Platinum group catalysis

Iminophosphines: synthesis, formation of 2,3-dihydro-1*H*-benzo[1,3]jzaphosphol-3-ium salts and *N*-(pyridin-2-yl)-2-diphenylphosphinoylaniline, coordination chemistry and applications in platinum group catalyzed Suzuki coupling reactions and hydrosilylations, 231

Plumbocene

A new, tetragonal, helical phase of plumbocene, Cp_2Pb ; variations on a molecular string ($\text{Cp} = \text{C}_5\text{H}_5$), 75

P–Sn coordination

Synthesis and structural behavior of the P-functional organotin chlorides $[\text{Ph}_2\text{P}(\text{CH}_2)_3]_2\text{SnCl}_2$, $\text{Ph}_2\text{P}(\text{CH}_2)_3\text{SnCl}_2\text{Me}$, and $\text{Ph}_2\text{P}(\text{CH}_2)_n\text{SnCl}_3$ ($n = 2, 3$), 25

Pyridylthioether

The marked influence of steric and electronic properties of ancillary pyridylthioether ligands on the rate of allene insertion into the palladium–carbon bond, 43

Quinolines

Ruthenium-catalyzed reductive cyclization of nitroarenes with trialkylamines leading to quinolines, 65

8-Quinolinate

Reactions of the cationic diruthenium carbonyl complex $[\text{Ru}_2(\mu\text{-dppm})_2(\text{CO})_4(\mu, \eta^2\text{-O}_2\text{CMe})]^+$ with bidentate ligands; intramolecularly assisted stereospecific synthesis via the second-sphere face-to-face $\pi\text{-}\pi$ stacking interactions, 268

Radical

Stereoselective hydrostannylation of substituted alkynes with tri-niophylltin hydride, 173

Reduction

Reaction of silylpentacarbonylmanganese with hydride-transfer reagents: reduction of carbonyl ligands accompanied with Si–C and C–C coupling, 91

Reductive cyclization

Ruthenium-catalyzed reductive cyclization of nitroarenes with trialkylamines leading to quinolines, 65

Rhenium(I)

Tricarbonylrhenium(I) complexes of phosphine-derivatized amines, amino acids and a model peptide: structures, solution behavior and cytotoxicity, 123

Rhodium

Investigation of the hydroformylation of ethylene in liquid carbon dioxide, 249

Ring-opening polymerization

Synthesis and characterization of $(\text{C}_5\text{H}_9\text{C}_9\text{H}_6)_2\text{Yb}(\text{THF})_2(\text{II})$ (1) and $[(\text{C}_5\text{H}_9\text{C}_5\text{H}_4)_2\text{Yb}(\text{THF})_2\text{O}_2]$ (2), and ring-opening polymerization of lactones with 1, 84

Rotation

New studies on the apparent allyl rotation in scorpion-like palladium complexes. The influence of non-directly bonded groups. X-ray molecular structures of $[\text{Pd}(\eta^3\text{-}2\text{-Me-C}_3\text{H}_4)\text{L}]\text{TfO}$, $\text{L} = \text{bpzmArOMe}$ and bpz^*mCy , 210

Ruthenium

Reactions of $\text{Ru}(\text{C}\equiv\text{CPh})(\text{L}_2)\text{Cp}^*$ ($\text{L}_2 = \text{dppm}$, dppe) with tetra-cyanoethene: cycloaddition, formation of monodentate dppm and dppmO complexes and migration of CN to ruthenium, 141

Reactions of the cationic diruthenium carbonyl complex $[\text{Ru}_2(\mu\text{-dppm})_2(\text{CO})_4(\mu, \eta^2\text{-O}_2\text{CMe})]^+$ with bidentate ligands; intramolecularly assisted stereospecific synthesis via the second-sphere face-to-face $\pi\text{-}\pi$ stacking interactions, 268

Ruthenium cluster carbonyls containing ligands derived from ferrocenylalkynes, 188

Syntheses, X-ray structures, and reactions of ruthenium carbonyl complexes containing 1,1-dithiolates, 37

Ruthenium catalyst

Ruthenium-catalyzed reductive cyclization of nitroarenes with trialkylamines leading to quinolines, 65

Ruthenium complexes

Preparation, structures, and haptotropic rearrangement of novel dinuclear ruthenium complexes, $(\mu_2, \eta^3, \eta^5\text{-guaiazulene})\text{Ru}_2(\text{CO})_4(\text{CNR})$, 96

S-glutathionyl

Synthesis, X-ray absorption spectroscopy and purification of the seleno-bis (*S*-glutathionyl) arsinium anion from selenide, arsenite and glutathione, 108

Si–C coupling

Reaction of silylpentacarbonylmanganese with hydride-transfer reagents: reduction of carbonyl ligands accompanied with Si–C and C–C coupling, 91

Silyl complexes

Reaction of silylpentacarbonylmanganese with hydride-transfer reagents: reduction of carbonyl ligands accompanied with Si–C and C–C coupling, 91

Size-exclusion chromatography

Synthesis, X-ray absorption spectroscopy and purification of the seleno-bis (*S*-glutathionyl) arsinium anion from selenide, arsenite and glutathione, 108

Stereoselectivity

Stereoselective hydrostannation of substituted alkynes with tri-niophyltin hydride, 173

Suzuki coupling reactions

Iminophosphines: synthesis, formation of 2,3-dihydro-1*H*-benzo[1,3]azaphosphol-3-ium salts and *N*-(pyridin-2-yl)-2-diphenylphosphinoaniline, coordination chemistry and applications in platinum group catalyzed Suzuki coupling reactions and hydrosilylations, 231

TCNE

Reactions of Ru(C≡CPh)(L₂)Cp* (L₂ = dpdm, dppe) with tetra-cyanoethene: cycloaddition, formation of monodentate dpdm and dpdmO complexes and migration of CN to ruthenium, 141

Template synthesis

Iminophosphines: synthesis, formation of 2,3-dihydro-1*H*-benzo[1,3]azaphosphol-3-ium salts and *N*-(pyridin-2-yl)-2-diphenylphosphinoaniline, coordination chemistry and applications in platinum group catalyzed Suzuki coupling reactions and hydrosilylations, 231

Terdentate ligands

Synthesis, characterization and reactivity of palladium(II) compounds containing terdentate [Csp², N, S][−] or [Csp³, N, S][−] ligands, 258

Tetraethyl ethenylidenebisphosphonate

Michael addition of Grignard reagents to tetraethyl ethenylidenebisphosphonate, 77

1,3-Thiazolidine-2-thione

Synthesis of a novel copper(II) complex and its crystal structure, 274

Thioxanthate

Syntheses, X-ray structures, and reactions of ruthenium carbonyl complexes containing 1,1-dithiolates, 37

Transition metals

Homogeneously catalysed isomerisation of allylic alcohols to carbonyl compounds, 1

Reactivity of electrophilic terminal phosphinidene complexes toward phosphorus ylides, 57

Trialkylamines

Ruthenium-catalyzed reductive cyclization of nitroarenes with trialkylamines leading to quinolines, 65

Triphosphole

The first 2,3-dihydro-1*H*-[1,2,4] triphosphole, 198

Tungsten

Mixed-metal cluster chemistry: Part 20. Syntheses, crystal structures and electrochemical studies of W₂Ir₂(μ-L)(CO)₈(η⁵-C₅H₄Me)₂ (L = dppe, dppf), 133

Vinylstannanes

Stereoselective hydrostannation of substituted alkynes with tri-niophyltin hydride, 173

X-ray absorption spectroscopy

Synthesis, X-ray absorption spectroscopy and purification of the seleno-bis (*S*-glutathionyl) arsinium anion from selenide, arsenite and glutathione, 108

X-ray analysis

Synthesis of a novel copper(II) complex and its crystal structure, 274

X-ray structure

Dimeric cyclopalladated azobenzenes: structural differences between 2-hydroxypyridine and 2-mercaptopyridine bridged complexes, 202

X-ray structures

Ruthenium cluster carbonyls containing ligands derived from ferrocenylalkynes, 188

Ytterbium

Synthesis and characterization of (C₅H₉C₉H₆)₂Yb(THF)₂(II) (**1**) and [(C₅H₉C₅H₄)₂Yb(THF)]₂O₂ (**2**), and ring-opening polymerization of lactones with **1**, 84

Zirconocene

Synthesis and characterization of planarly chiral nonbridged bis(1-*R*-indenyl) zirconium dichloride complexes and X-ray structure of *rac*-[(η⁵-C₉H₆-1-C(CH₃)₂-*o*-C₆H₄-OCH₃)₂-ZrCl₂]:THF, 114