

Subject Index of Volume 631

Ab initio calculations

Gas-phase formation of mono- and dications from iron-subgroup decamethylmetallocenes and their calculation by the density functional method, 9

π -Acetylene complexes

Synthesis and electrochemical study of cobalt carbonyl complexes of trimethylsilyl-substituted 1,3,5-triethynylbenzene, 19

Aldehyde

Synthesis and crystal structure of oxo-bridged binuclear titanium complex $[\{\text{Ti}(\text{acac})_2\text{Cl}\}\{\text{TiCp}_2(\text{Cl})\}(\mu\text{-O})]$ and its catalytic reactions toward silylation of aldehyde, 16

Alkyl

The synthesis of alkyl niobocene imido complexes and the X-ray crystal structure of $[\text{Nb}(\text{=O})\text{Cp}_2\text{Me}]$ ($\text{Cp} = \eta^5\text{-C}_5\text{H}_5$), 151

Alkylation

Friedel–Crafts alkylation of benzene with (polychloromethyl)silanes, 36

Alkyne

Mixed-metal cluster chemistry. Part 17. Syntheses of $\text{WIr}_3(\text{CO})_{11}(\eta\text{-C}_5\text{H}_4\text{Me})$ and its reactivity towards diphenylacetylene, 143

Aluminum

Syntheses and structures of new blue luminescent B(III) and Al(III) complexes: $\text{BPh}_2(\text{acac-azain})$ and $\text{Al}(\text{CH}_3)(\text{acac-azain})_2$, acac-azain = 1-*N*-7-azaindolyl-1,3-butanedionato, 175

Aluminum chloride

Friedel–Crafts alkylation of benzene with (polychloromethyl)silanes, 36

Aminophosphonates

The first synthesis of ferrocenyl aminophosphonic esters, 105

Asymmetrical induction

The first synthesis of ferrocenyl aminophosphonic esters, 105

Asymmetric metallocenes

Novel octahydro- and tetrahydro-fluorenyl containing C_1 symmetric zirconocenes for the stereoregular polymerization of propylene, 29

Azaindolyl

Syntheses and structures of new blue luminescent B(III) and Al(III) complexes: $\text{BPh}_2(\text{acac-azain})$ and $\text{Al}(\text{CH}_3)(\text{acac-azain})_2$, acac-azain = 1-*N*-7-azaindolyl-1,3-butanedionato, 175

Biological activity

Gold(III) thiosalicylate complexes containing cycloaurated 2-arylpyridine, 2-anilinopyridine and 2-benzylpyridine ligands, 41

Boranes

(Fluoroorgano)fluoroboranes and -fluoroborates: Part 3. Polyfluoroalken-1-yl difluoroboranes, 54

Borates

(Fluoroorgano)fluoroboranes and -fluoroborates: Part 3. Polyfluoroalken-1-yl difluoroboranes, 54

Boron

Syntheses and structures of new blue luminescent B(III) and Al(III) complexes: $\text{BPh}_2(\text{acac-azain})$ and $\text{Al}(\text{CH}_3)(\text{acac-azain})_2$, acac-azain = 1-*N*-7-azaindolyl-1,3-butanedionato, 175

Bulky ligands

Crystal structures of organometallic compounds of lithium and magnesium containing the bulky ligands $\text{C}(\text{SiMe}_3)_2(\text{SiMe}_2\text{X})$ $\text{X} = \text{Me, Ph, NMe}_2$, or $\text{C}_5\text{H}_4\text{N-2}$, 76

Carbonyl

Mixed-metal cluster chemistry. Part 17. Syntheses of $\text{WIr}_3(\text{CO})_{11}(\eta\text{-C}_5\text{H}_4\text{Me})$ and its reactivity towards diphenylacetylene, 143

Mixed-metal cluster chemistry. Part 18. Synthesis and crystal structure of $\text{W}_3\text{Ir}_3(\mu_4\text{-}\eta^2\text{-CO})(\mu\text{-CO})(\text{CO})_{10}(\eta\text{-C}_5\text{H}_4\text{Me})_3$, 139

Carbonyl complexes

Facile displacement of cyclohexadienide ligand from $\text{K}[\text{Cr}(\eta^5\text{-C}_6\text{H}_7)(\text{CO})_3]$ to give crystallographically characterized *trans*- $[\text{Cr}(\text{CO})_4(\text{PPh}_3)_2]$, 188

Synthesis and electrochemical study of cobalt carbonyl complexes of trimethylsilyl-substituted 1,3,5-triethynylbenzene, 19

Chiral ligands

Synthesis of chiral silver(I) diaminecarbene complexes from (*R,R*)-4,5-di-*tert*-butylimidazole, 157

Chromium

Facile displacement of cyclohexadienide ligand from $\text{K}[\text{Cr}(\eta^5\text{-C}_6\text{H}_7)(\text{CO})_3]$ to give crystallographically characterized *trans*- $[\text{Cr}(\text{CO})_4(\text{PPh}_3)_2]$, 188

Cluster

Mixed-metal cluster chemistry. Part 18. Synthesis and crystal structure of $\text{W}_3\text{Ir}_3(\mu_4\text{-}\eta^2\text{-CO})(\mu\text{-CO})(\text{CO})_{10}(\eta\text{-C}_5\text{H}_4\text{Me})_3$, 139

Clusters

Mixed-metal cluster chemistry. Part 17. Syntheses of $\text{WIr}_3(\text{CO})_{11}(\eta\text{-C}_5\text{H}_4\text{Me})$ and its reactivity towards diphenylacetylene, 143

Cobalt

Synthesis and electrochemical study of cobalt carbonyl complexes of trimethylsilyl-substituted 1,3,5-triethynylbenzene, 19

Complexation

Complexes of P(III)-phosphocavitands with Groups VI and VII transition metal carbonyls, 1

Complexes

Fluorenyl derivatives of early transition elements: a synthetic and structural study, 110

Crystal structure

Gold(III) thiosalicylate complexes containing cycloaurated 2-arylpyridine, 2-anilinopyridine and 2-benzylpyridine ligands, 41

Crystal structures

Chemistry of cyclopentadienyl tricarbonylchromium dimer. Cleavage of bis(thiophosphoryl)disulfanes. Syntheses and X-ray crystal structures of $\text{CpCr}(\text{CO})_2(\text{S}_2\text{P}(\text{OR})_2)$, $\text{CpCr}(\text{S}_2\text{P}(\text{OR})_2)_2$ and $\text{Cr}(\text{S}_2\text{P}(\text{OR})_2)_3$ ($\text{R} = \text{Pr}$), 67

- Synthesis and crystal structures of chromium and molybdenum complexes containing the 2,4,6-tris(trifluoromethyl)phenyl ligand, 181
- Synthesis and spectroscopic characterization of new mixed ligand organotellurium(IV) compounds employing dithiocarbamates and imidotetraphenyldithiodiphosphinates. Crystal structure of $[\text{C}_4\text{H}_8\text{Te}(\text{S}_2\text{CNEt}_2)\{\text{SPPPh}_2\}_2\text{N}\}$, $[\text{C}_4\text{H}_8\text{Te}(\text{S}_2\text{CNC}_5\text{H}_{10})\{\text{SPPPh}_2\}_2\text{N}\}$ and $[\text{C}_4\text{H}_8\text{Te}(\text{S}_2\text{CNC}_4\text{H}_8\text{S})\{\text{SPPPh}_2\}_2\text{N}\}$, 99
- Synthesis and structural characterization of $\{\mu_3\text{-H(Ph)C=C}\text{-FeCo}_2(\text{CO})_7\text{dppm}\}$ (dppm = $\text{Ph}_2\text{PCH}_2\text{PPh}_2$) and $\{\mu_3\text{-H(Ph)C=C}\text{-FeCo}_2(\text{CO})_{9-n}\text{L}_n\}$ [$\text{L} = \text{PPh}_3$ ($n = 1, 2$), AsPh_3 ($n = 1$)], 87
- Synthesis of chiral silver(I) diaminocarbene complexes from (*R,R*)-4,5-di-*tert*-butylimidazoline, 157
- Cyclohexadienyl
Facile displacement of cyclohexadienide ligand from $\text{K}[\text{Cr}(\eta^5\text{-C}_6\text{H}_7)(\text{CO})_3]$ to give crystallographically characterized *trans*- $[\text{Cr}(\text{CO})_4(\text{PPh}_3)_2]$, 188
- Cyclometallated ligands
Gold(III) thiosalicylate complexes containing cycloaurated 2-arylpyridine, 2-anilinoypyridine and 2-benzylpyridine ligands, 41
- Cyclometallation
Stereoselective oxidative addition of methyl iodide to chiral cyclometallated platinum(II) compounds derived from (*R*)-(+)-1-(1-naphthylethylamine). Crystal structure of $[\text{PtMe}\{\text{3-(R)-(C}_{10}\text{H}_7\text{)CHMeNCHC}_4\text{H}_2\text{S}\}\text{PPh}_3]$, 164
- Cyclopentadienyl
Mixed-metal cluster chemistry. Part 17. Syntheses of $\text{WIr}_3(\text{CO})_{11}\text{-}(\eta\text{-C}_5\text{H}_4\text{Me})$ and its reactivity towards diphenylacetylene, 143
Mixed-metal cluster chemistry. Part 18. Synthesis and crystal structure of $\text{W}_3\text{Ir}_3(\mu_4\text{-}\eta^2\text{-CO})(\mu\text{-CO})(\text{CO})_{10}(\eta\text{-C}_5\text{H}_4\text{Me})_3$, 139
- Cyclopentadienylchromium
Chemistry of cyclopentadienyl tricarbonylchromium dimer. Cleavage of bis(thiophosphoryl)disulfanes. Syntheses and X-ray crystal structures of $\text{CpCr}(\text{CO})_2(\text{S}_2\text{P}(\text{OR})_2)_2$, $\text{CpCr}(\text{S}_2\text{P}(\text{OR})_2)_2$ and $\text{Cr}(\text{S}_2\text{P}(\text{OR})_2)_3$ ($\text{R} = \textit{iPr}$), 67
- 2D-exchange NMR
Conformational flexibility and molecular dynamics of cationic diolefin–rhodium(I) complexes with iminophosphine ligands, 117
- Diaminocarbenes
Synthesis of chiral silver(I) diaminocarbene complexes from (*R,R*)-4,5-di-*tert*-butylimidazoline, 157
- Dications $1,1'\text{-}[\text{M}(\text{C}_5\text{Me}_4\text{CH}_2)_2]^{2+}$ and $[1,2(\text{CH}_2)_2\text{C}_5\text{Me}_3\text{MC}_5\text{Me}_3]^{2+}$ ($\text{M} = \text{Fe, Ru, Os}$)
Gas-phase formation of mono- and dications from iron-subgroup decamethylmetallocenes and their calculation by the density functional method, 9
- (Dichloromethyl)silanes
Friedel–Crafts alkylation of benzene with (polychloromethyl)silanes, 36
- Diethylzinc catalysis
Synthesis of ferrocene substituted pyrrolidine derivatives via Et_2Zn catalyzed 1,3-dipolar cycloaddition reactions of azomethine ylides, 135
- Diffraction studies
Synthesis and crystal structure of oxo-bridged binuclear titanium complex $[\{\text{Ti}(\text{acac})_2\text{Cl}\}\{\text{TiCp}_2(\text{Cl})\}(\mu\text{-O})]$ and its catalytic reactions toward silylation of aldehyde, 16
- Di-isopropyldithiophosphate
Chemistry of cyclopentadienyl tricarbonylchromium dimer. Cleavage of bis(thiophosphoryl)disulfanes. Syntheses and X-ray crystal structures of $\text{CpCr}(\text{CO})_2(\text{S}_2\text{P}(\text{OR})_2)_2$, $\text{CpCr}(\text{S}_2\text{P}(\text{OR})_2)_2$ and $\text{Cr}(\text{S}_2\text{P}(\text{OR})_2)_3$ ($\text{R} = \textit{iPr}$), 67
- (Diphenylmethyl)silanes
Friedel–Crafts alkylation of benzene with (polychloromethyl)silanes, 36
- 1,3-Dipolar cycloadditions
Synthesis of ferrocene substituted pyrrolidine derivatives via Et_2Zn catalyzed 1,3-dipolar cycloaddition reactions of azomethine ylides, 135
- Dithiocarbamates
Synthesis and spectroscopic characterization of new mixed ligand organotellurium(IV) compounds employing dithiocarbamates and imidotetraphenyldithiodiphosphinates. Crystal structure of $[\text{C}_4\text{H}_8\text{Te}(\text{S}_2\text{CNEt}_2)\{\text{SPPPh}_2\}_2\text{N}\}$, $[\text{C}_4\text{H}_8\text{Te}(\text{S}_2\text{CNC}_5\text{H}_{10})\{\text{SPPPh}_2\}_2\text{N}\}$ and $[\text{C}_4\text{H}_8\text{Te}(\text{S}_2\text{CNC}_4\text{H}_8\text{S})\{\text{SPPPh}_2\}_2\text{N}\}$, 99
- Dynamic NMR
Stereochemically non-rigid transition metal complexes of 2,6-bis(phenyliminomethyl)pyridine and derivatives. Crystal structure of *fac*- $[\text{ReBr}(\text{CO})_3(\text{PMTFA})]$ (PMTFA = 2,6-pyridylene-bis-(methylene-2-trifluoromethylaniline), 125
- Electrochemistry
Synthesis and electrochemical study of cobalt carbonyl complexes of trimethylsilyl-substituted 1,3,5-triethynylbenzene, 19
- 15-Electron chromium(III)
Chemistry of cyclopentadienyl tricarbonylchromium dimer. Cleavage of bis(thiophosphoryl)disulfanes. Syntheses and X-ray crystal structures of $\text{CpCr}(\text{CO})_2(\text{S}_2\text{P}(\text{OR})_2)_2$, $\text{CpCr}(\text{S}_2\text{P}(\text{OR})_2)_2$ and $\text{Cr}(\text{S}_2\text{P}(\text{OR})_2)_3$ ($\text{R} = \textit{iPr}$), 67
- Ferrocene
Synthesis of ferrocene substituted pyrrolidine derivatives via Et_2Zn catalyzed 1,3-dipolar cycloaddition reactions of azomethine ylides, 135
- Ferrocenecarboxaldehyde
The first synthesis of ferrocenyl aminophosphonic esters, 105
- Ferrocene moiety
The first synthesis of ferrocenyl aminophosphonic esters, 105
- 1-Ferrocenyl(2-(4-alkyl)pyridiniumyl)ethylene iodides
Synthesis and nonlinear optical properties of a range of 1-ferrocenyl(2-(4-alkyl)pyridiniumyl)ethylene iodides, 59
- Fluorenyl
Fluorenyl derivatives of early transition elements: a synthetic and structural study, 110
- Fluxionality
Stereochemically non-rigid transition metal complexes of 2,6-bis(phenyliminomethyl)pyridine and derivatives. Crystal structure of *fac*- $[\text{ReBr}(\text{CO})_3(\text{PMTFA})]$ (PMTFA = 2,6-pyridylene-bis-(methylene-2-trifluoromethylaniline), 125
- Gold
Gold(III) thiosalicylate complexes containing cycloaurated 2-arylpyridine, 2-anilinoypyridine and 2-benzylpyridine ligands, 41
- Groups VI and VII transition metals
Complexes of P(III)-phosphocavitands with Groups VI and VII transition metal carbonyls, 1
- Group VI complexes
Synthesis and crystal structures of chromium and molybdenum complexes containing the 2,4,6-tris(trifluoromethyl)phenyl ligand, 181
- Half-sandwich lanthanoid complexes
Synthesis and characterization of polynuclear half-sandwich lanthanoid complexes $[\text{Na}(\text{THF})_6]_2[\text{Cp}'_6\text{Sm}_6\text{Se}_{13}]$ and $[\text{Li}(\text{THF})_4]_2[\text{Cp}'_6\text{Nd}_6\text{Se}_{13}]$, 94

Imidazolium salts

Synthesis of chiral silver(I) diaminocarbene complexes from (*R,R*)-4,5-di-*tert*-butylimidazole, 157

Imido

The synthesis of alkyl niobocene imido complexes and the X-ray crystal structure of $[\text{Nb}(\text{=O})\text{Cp}_2\text{Me}]$ ($\text{Cp} = \eta^5\text{-C}_5\text{H}_5$), 151

Imidodithiophosphinates

Synthesis and spectroscopic characterization of new mixed ligand organotellurium(IV) compounds employing dithiocarbamates and imidotetraphenyldithiodiphosphinates. Crystal structure of $[\text{C}_4\text{H}_8\text{Te}(\text{S}_2\text{CNEt}_2)\{\text{SPPPh}_2\}_2\text{N}\}$, $[\text{C}_4\text{H}_8\text{Te}(\text{S}_2\text{CNC}_5\text{H}_{10})\{\text{SPPPh}_2\}_2\text{N}\}$ and $[\text{C}_4\text{H}_8\text{Te}(\text{S}_2\text{CNC}_4\text{H}_8\text{S})\{\text{SPPPh}_2\}_2\text{N}\}$, 99

Imido ligands

Synthesis and crystal structures of chromium and molybdenum complexes containing the 2,4,6-tris(trifluoromethyl)phenyl ligand, 181

Interstitial selenium

Synthesis and characterization of polynuclear half-sandwich lanthanoid complexes $[\text{Na}(\text{THF})_6]_2[\text{Cp}'_6\text{Sm}_6\text{Se}_{13}]$ and $[\text{Li}(\text{THF})_4]_2[\text{Cp}'_6\text{Nd}_6\text{Se}_{13}]$, 94

Iridium

Mixed-metal cluster chemistry. Part 17. Syntheses of $\text{WIr}_3(\text{CO})_{11}(\eta\text{-C}_5\text{H}_4\text{Me})$ and its reactivity towards diphenylacetylene, 143

Mixed-metal cluster chemistry. Part 18. Synthesis and crystal structure of $\text{W}_3\text{Ir}_3(\mu_4\text{-}\eta^2\text{-CO})(\mu\text{-CO})(\text{CO})_{10}(\eta\text{-C}_5\text{H}_4\text{Me})_3$, 139

Isotactic polypropylene

Novel octahydro- and tetrahydro-fluorenyl containing C_1 symmetric zirconocenes for the stereoregular polymerization of propylene, 29

Kurtz powder technique

Synthesis and nonlinear optical properties of a range of 1-ferrocenyl(2-(4-alkyl)pyridiniumyl)ethylene iodides, 59

Ligand replacement

Facile displacement of cyclohexadienide ligand from $\text{K}[\text{Cr}(\eta^5\text{-C}_6\text{H}_7)(\text{CO})_3]$ to give crystallographically characterized *trans*- $[\text{Cr}(\text{CO})_4(\text{PPh}_3)_2]$, 188

Lithium

Crystal structures of organometallic compounds of lithium and magnesium containing the bulky ligands $\text{C}(\text{SiMe}_2)_2(\text{SiMe}_2\text{X})$ $\text{X} = \text{Me, Ph, NMe}_2$, or $\text{C}_5\text{H}_4\text{N-2}$, 76

Luminescence

Syntheses and structures of new blue luminescent B(III) and Al(III) complexes: $\text{BPh}_2(\text{acac-azain})$ and $\text{Al}(\text{CH}_3)(\text{acac-azain})_2$, *acac-azain* = 1-*N*-7-azaindoly-1,3-butanedionato, 175

Magnesium

Crystal structures of organometallic compounds of lithium and magnesium containing the bulky ligands $\text{C}(\text{SiMe}_2)_2(\text{SiMe}_2\text{X})$ $\text{X} = \text{Me, Ph, NMe}_2$, or $\text{C}_5\text{H}_4\text{N-2}$, 76

Manganese phenylvinylidene complexes

Oxidative dehydrodimerization of manganese phenylvinylidene complex $(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_2\text{Mn}=\text{C}(\text{H})\text{Ph}$. X-ray structure of phenyl(trityl)vinylidene complex $(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_2\text{Mn}=\text{C}(\text{CPh}_3)\text{Ph}$, 47

Mass-spectrometry

Gas-phase formation of mono- and dications from iron-subgroup decamethylmetallocenes and their calculation by the density functional method, 9

Metallacycles

Synthesis and spectroscopic characterization of new mixed ligand

organotellurium(IV) compounds employing dithiocarbamates and imidotetraphenyldithiodiphosphinates. Crystal structure of $[\text{C}_4\text{H}_8\text{Te}(\text{S}_2\text{CNEt}_2)\{\text{SPPPh}_2\}_2\text{N}\}$, $[\text{C}_4\text{H}_8\text{Te}(\text{S}_2\text{CNC}_5\text{H}_{10})\{\text{SPPPh}_2\}_2\text{N}\}$ and $[\text{C}_4\text{H}_8\text{Te}(\text{S}_2\text{CNC}_4\text{H}_8\text{S})\{\text{SPPPh}_2\}_2\text{N}\}$, 99

Mixed-metal clusters

Synthesis and structural characterization of $\{\mu_3\text{-H}(\text{Ph})\text{-C}=\text{C}\}\text{FeCo}_2(\text{CO})_7\text{dppm}$ ($\text{dppm} = \text{Ph}_2\text{PCH}_2\text{PPh}_2$) and $\{\mu_3\text{-H}(\text{Ph})\text{C}=\text{C}\}\text{FeCo}_2(\text{CO})_{9-n}\text{L}_n$ [$\text{L} = \text{PPh}_3$ ($n = 1, 2$), AsPh_3 ($n = 1$)], 87

Monocations $[\text{C}_5\text{Me}_5\text{MC}_5\text{Me}_4\text{CH}_2]^+$

Gas-phase formation of mono- and dications from iron-subgroup decamethylmetallocenes and their calculation by the density functional method, 9

Neodymium

Synthesis and characterization of polynuclear half-sandwich lanthanoid complexes $[\text{Na}(\text{THF})_6]_2[\text{Cp}'_6\text{Sm}_6\text{Se}_{13}]$ and $[\text{Li}(\text{THF})_4]_2[\text{Cp}'_6\text{Nd}_6\text{Se}_{13}]$, 94

Niobium

Fluorenyl derivatives of early transition elements: a synthetic and structural study, 110

The synthesis of alkyl niobocene imido complexes and the X-ray crystal structure of $[\text{Nb}(\text{=O})\text{Cp}_2\text{Me}]$ ($\text{Cp} = \eta^5\text{-C}_5\text{H}_5$), 151

Niobocene

The synthesis of alkyl niobocene imido complexes and the X-ray crystal structure of $[\text{Nb}(\text{=O})\text{Cp}_2\text{Me}]$ ($\text{Cp} = \eta^5\text{-C}_5\text{H}_5$), 151

NMR

(Fluoroorgano)fluoroboranes and -fluoroborates: Part 3. Poly-fluoroalken-1-ylidifluoroboranes, 54

Nonlinear optical properties

Synthesis and nonlinear optical properties of a range of 1-ferrocenyl(2-(4-alkyl)pyridiniumyl)ethylene iodides, 59

Octahydrofluorenyl

Novel octahydro- and tetrahydro-fluorenyl containing C_1 symmetric zirconocenes for the stereoregular polymerization of propylene, 29

O-Silation

Synthesis and crystal structure of oxo-bridged binuclear titanium complex $[\{\text{Ti}(\text{acac})_2\text{Cl}\}\{\text{TiCp}_2(\text{Cl})\}(\mu\text{-O})]$ and its catalytic reactions toward silation of aldehyde, 16

Oxidative addition

Stereoselective oxidative addition of methyl iodide to chiral cyclometallated platinum(II) compounds derived from (*R*)-(+)-1-(1-naphthylethylamine). Crystal structure of $[\text{PtMe}\{\text{3-(R)-(C}_{10}\text{H}_7\text{)CHMeNCHC}_4\text{H}_2\text{S}\}\text{PPh}_3]$, 164

Oxidative dehydrodimerization

Oxidative dehydrodimerization of manganese phenylvinylidene complex $(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_2\text{Mn}=\text{C}(\text{H})\text{Ph}$. X-ray structure of phenyl(trityl)vinylidene complex $(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_2\text{Mn}=\text{C}(\text{CPh}_3)\text{Ph}$, 47

Oxo

The synthesis of alkyl niobocene imido complexes and the X-ray crystal structure of $[\text{Nb}(\text{=O})\text{Cp}_2\text{Me}]$ ($\text{Cp} = \eta^5\text{-C}_5\text{H}_5$), 151

Oxo-bridged binuclear titanium

Synthesis and crystal structure of oxo-bridged binuclear titanium complex $[\{\text{Ti}(\text{acac})_2\text{Cl}\}\{\text{TiCp}_2(\text{Cl})\}(\mu\text{-O})]$ and its catalytic reactions toward silation of aldehyde, 16

Palladium(II)

Stereochemically non-rigid transition metal complexes of 2,6-bis(phenyliminomethyl)pyridine and derivatives. Crystal structure of *fac*- $[\text{ReBr}(\text{CO})_3(\text{PMTFA})]$ ($\text{PMTFA} = 2,6\text{-pyridylene-bis-(methylene-2-trifluoromethylaniline)}$), 125

Phosphocavitands

Complexes of P(III)-phosphocavitands with Groups VI and VII transition metal carbonyls, 1

Phosphorodithioato

Chemistry of cyclopentadienyl tricarbonylchromium dimer. Cleavage of bis(thiophosphoryl)disulfanes. Syntheses and X-ray crystal structures of $\text{CpCr}(\text{CO})_2(\text{S}_2\text{P}(\text{OR})_2)$, $\text{CpCr}(\text{S}_2\text{P}(\text{OR})_2)_2$ and $\text{Cr}(\text{S}_2\text{P}(\text{OR})_2)_3$ ($\text{R} = \text{Pr}$), 67

Platinum

Stereoselective oxidative addition of methyl iodide to chiral cyclometallated platinum(II) compounds derived from (*R*)-(+)-1-(1-naphthylethylamine). Crystal structure of $[\text{PtMe}\{3-(\text{R})-(\text{C}_{10}\text{H}_7)\text{CHMeNCHC}_4\text{H}_2\text{S}\}\text{PPh}_3]$, 164

Platinum(IV)

Stereochemically non-rigid transition metal complexes of 2,6-bis(phenyliminomethyl)pyridine and derivatives. Crystal structure of *fac*- $[\text{ReBr}(\text{CO})_3(\text{PMTFA})]$ ($\text{PMTFA} = 2,6$ -pyridylene-bis-(methylene-2-trifluoromethylaniline), 125

(Polychloromethyl)silanes

Friedel–Crafts alkylation of benzene with (polychloromethyl)silanes, 36

Polyfluoroalken-1-yl boron compounds

(Fluoroorgano)fluoroboranes and -fluoroborates: Part 3. Polyfluoroalken-1-yl difluoroboranes, 54

Polymerization

Novel octahydro- and tetrahydro-fluorenyl containing C_1 symmetric zirconocenes for the stereoregular polymerization of propylene, 29

Pyrrolidine

Synthesis of ferrocene substituted pyrrolidine derivatives via Et_2Zn catalyzed 1,3-dipolar cycloaddition reactions of azomethine ylides, 135

Relative stabilities

Gas-phase formation of mono- and dications from iron-subgroup decamethylmetallocenes and their calculation by the density functional method, 9

 $[\text{Rh}(\eta^2, \eta^2\text{-diolefin})(\text{iminophosphine})]^+$

Conformational flexibility and molecular dynamics of cationic diolefin–rhodium(I) complexes with iminophosphine ligands, 117

Rhenium(I)

Stereochemically non-rigid transition metal complexes of 2,6-bis(phenyliminomethyl)pyridine and derivatives. Crystal structure of *fac*- $[\text{ReBr}(\text{CO})_3(\text{PMTFA})]$ ($\text{PMTFA} = 2,6$ -pyridylene-bis-(methylene-2-trifluoromethylaniline), 125

Samarium

Synthesis and characterization of polynuclear half-sandwich lanthanoid complexes $[\text{Na}(\text{THF})_6]_2[\text{Cp}'_6\text{Sm}_6\text{Se}_{13}]$ and $[\text{Li}(\text{THF})_4]_2[\text{Cp}'_6\text{Nd}_6\text{Se}_{13}]$, 94

Schiff bases

The first synthesis of ferrocenyl aminophosphonic esters, 105

Secondary M–F interactions

Synthesis and crystal structures of chromium and molybdenum complexes containing the 2,4,6-tris(trifluoromethyl)phenyl ligand, 181

Selenide metal complexes

Synthesis and characterization of polynuclear half-sandwich lanthanoid complexes $[\text{Na}(\text{THF})_6]_2[\text{Cp}'_6\text{Sm}_6\text{Se}_{13}]$ and $[\text{Li}(\text{THF})_4]_2[\text{Cp}'_6\text{Nd}_6\text{Se}_{13}]$, 94

Semi-empirical calculations

Conformational flexibility and molecular dynamics of cationic diolefin–rhodium(I) complexes with iminophosphine ligands, 117

Silver(I)

Synthesis of chiral silver(I) diaminocarbene complexes from (*R,R*)-4,5-di-*tert*-butylimidazoline, 157

Solution dynamics

Conformational flexibility and molecular dynamics of cationic

diolefin–rhodium(I) complexes with iminophosphine ligands, 117

Stereoselectivity

Stereoselective oxidative addition of methyl iodide to chiral cyclometallated platinum(II) compounds derived from (*R*)-(+)-1-(1-naphthylethylamine). Crystal structure of $[\text{PtMe}\{3-(\text{R})-(\text{C}_{10}\text{H}_7)\text{CHMeNCHC}_4\text{H}_2\text{S}\}\text{PPh}_3]$, 164

Structures

Fluorenyl derivatives of early transition elements: a synthetic and structural study, 110

Substitution reactions

Synthesis and structural characterization of $\{\mu_3\text{-H}(\text{Ph})\text{C}=\text{C}\}\text{-FeCo}_2(\text{CO})_7\text{dppm}$ ($\text{dppm} = \text{Ph}_2\text{PCH}_2\text{PPh}_2$) and $\{\mu_3\text{-H}(\text{Ph})\text{C}=\text{C}\}\text{-FeCo}_2(\text{CO})_{9-n}\text{L}_n$ [$\text{L} = \text{PPh}_3$ ($n = 1, 2$), AsPh_3 ($n = 1$)], 87

Tantalum

Fluorenyl derivatives of early transition elements: a synthetic and structural study, 110

Tellurium

Synthesis and spectroscopic characterization of new mixed ligand organotellurium(IV) compounds employing dithiocarbamates and imidotetraphenyldithiodiphosphinates. Crystal structure of $[\text{C}_4\text{H}_8\text{Te}(\text{S}_2\text{CNET}_2)\{\text{SPPPh}_2\}_2\text{N}\}$, $[\text{C}_4\text{H}_8\text{Te}(\text{S}_2\text{CNC}_5\text{H}_{10})\{\text{SPPPh}_2\}_2\text{N}\}$ and $[\text{C}_4\text{H}_8\text{Te}(\text{S}_2\text{CNC}_4\text{H}_8\text{S})\{\text{SPPPh}_2\}_2\text{N}\}$, 99

Tetrahydrofluorenyl

Novel octahydro- and tetrahydro-fluorenyl containing C_1 symmetric zirconocenes for the stereoregular polymerization of propylene, 29

Thiosalicylate

Gold(III) thiosalicylate complexes containing cycloaurated 2-arylpyridine, 2-anilinoypyridine and 2-benzylpyridine ligands, 41

(Trichloromethyl)silanes

Friedel–Crafts alkylation of benzene with (polychloromethyl)silanes, 36

(Triphenylmethyl)silanes

Friedel–Crafts alkylation of benzene with (polychloromethyl)silanes, 36

Triphenylphosphine

Facile displacement of cyclohexadienide ligand from $\text{K}[\text{Cr}(\eta^5\text{-C}_6\text{H}_7)(\text{CO})_3]$ to give crystallographically characterized *trans*- $[\text{Cr}(\text{CO})_4(\text{PPh}_3)_2]$, 188

Tungsten

Mixed-metal cluster chemistry. Part 17. Syntheses of $\text{WIr}_3(\text{CO})_{11}(\eta\text{-C}_5\text{H}_4\text{Me})$ and its reactivity towards diphenylacetylene, 143

Mixed-metal cluster chemistry. Part 18. Synthesis and crystal structure of $\text{W}_3\text{Ir}_3(\mu_4\text{-}\eta^2\text{-CO})(\mu\text{-CO})(\text{CO})_{10}(\eta\text{-C}_5\text{H}_4\text{Me})_3$, 139

X-ray structure

Oxidative dehydrodimerization of manganese phenylvinylidene complex $(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_2\text{Mn}=\text{C}(\text{H})\text{Ph}$. X-ray structure of phenyl(trityl)vinylidene complex $(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_2\text{Mn}=\text{C}(\text{CPh}_3)\text{Ph}$, 47

Zirconium

Fluorenyl derivatives of early transition elements: a synthetic and structural study, 110

Zirconocenes

Novel octahydro- and tetrahydro-fluorenyl containing C_1 symmetric zirconocenes for the stereoregular polymerization of propylene, 29