



Subject Index of Volume 587

Alkylation

Friedel–Crafts alkylation of ferrocene with *Z*-cyclooctene and cyclohexene, 122

Alkyls

The synthesis, characterization and properties of alkyl complexes of the type $[\text{Cp}^*\text{Fe}(\text{CO})_2\text{R}]$ ($\text{Cp}^* = \eta^5\text{-C}_5(\text{CH}_3)_5$; $\text{R} = n\text{-C}_3\text{H}_7$ to $n\text{-C}_{12}\text{H}_{25}$); the X-ray crystal and molecular structure of $[\text{Cp}^*\text{Fe}(\text{CO})_2(n\text{-C}_5\text{H}_{11})]$ and molecular orbital and density functional calculations on the β -hydride elimination of $[\text{Cp}\text{Fe}(\text{CO})_2(\text{CH}_2\text{CH}_3)]$, 28

Alkynyl

Bis(alkynyl)-bipyridyl-platin(II)-Komplexe: Ein einfacher Zugang zu zweikernigen Platin(II)–Kupfer(I)-Verbindungen, 284

Allylgermanes

An alternative route to allylgermanes by the palladium-catalyzed reaction of germysilanes with allylic halides, 144

Aluminum

Intramolecular C–H \cdots O hydrogen bond controlling the conformation of heterocycles: synthesis, structure and catalytic reactivity of aluminum aryloxides, 151

Amide

Synthesis and crystal structure of trimeric sodium 2,2,6,6-tetramethylpiperidide (NaTMP), 88

Amine

Aminosilane as a coupling agent for cyclopentadienyl ligands on silica, 38

Antimony

Reactivity of $[\text{Et}_4\text{N}]_2[\text{MeSb}\{\text{Fe}(\text{CO})_4\}_3]$ toward HOAc and $[\text{Cu}(\text{MeCN})_4]\text{BF}_4$: formation of $[\text{Et}_4\text{N}][\text{Me}(\text{OAc})\text{Sb}\{\text{Fe}(\text{CO})_4\}_2]$ and $[\text{MeSb}\{\text{Fe}(\text{CO})_4\}\{\text{Fe}_2(\text{CO})_8\}]$, 176

Aromatic diselenides

The NMR spectroscopic and X-ray crystallographic study of the oxidative addition of bis(2-thienyl) diselenide to zerovalent palladium and platinum centers, 200

Arylcarboranes

Synthesis of new arylcarboranes as precursors for oligomers, 67

Aryloxyde

Intramolecular C–H \cdots O hydrogen bond controlling the conformation of heterocycles: synthesis, structure and catalytic reactivity of aluminum aryloxides, 151

Asymmetric hydroformylation

Rhodium cationic complexes using macrocyclic diphosphines as chiral ligands: Application in asymmetric hydroformylation, 136

1,2-Asymmetric induction

1,2-Stereoinduction in the asymmetric hydrostannation of (*E*)- and (*Z*)-trisubstituted ethylenes with (–)-menthylidimethyltin hydride, 74

Benzobis(disilacyclobutene)

Palladium- and platinum-catalyzed reactions of benzo[1,2:4,5]bis-(1,1,2,2-tetraethyl-1,2-disilacyclobut-3-ene) with alkenes, 1

Bicyclichosphites

Metal complexes based on monosaccharide bicyclichosphites as new available chiral coordination systems, 18

Bipyridyl

Bis(alkynyl)-bipyridyl-platin(II)-Komplexe: Ein einfacher Zugang zu zweikernigen Platin(II)–Kupfer(I)-Verbindungen, 284

Bis[dichloro(pentamethylcyclopentadienyl)iridium(II)]

Reactions of bis[dichloro(η^5 -pentamethylcyclopentadienyl)iridium(III)] with bulky and highly basic aromatic phosphines containing *ortho*-methoxy groups, 49

Bis(2,6-dimethoxyphenyl)phenylphosphine

Reactions of bis[dichloro(η^5 -pentamethylcyclopentadienyl)iridium(III)] with bulky and highly basic aromatic phosphines containing *ortho*-methoxy groups, 49

(Carbomethoxy)maleic anhydride

Pericyclic organometallic reactions. The reactions of (cht)Fe(CO)₂L (L = CO, P(OPh)₃, PPh₃) and (carbomethoxy)-maleic anhydride revisited, 81

Carbonyl

Reactivity of $[\text{Et}_4\text{N}]_2[\text{MeSb}\{\text{Fe}(\text{CO})_4\}_3]$ toward HOAc and $[\text{Cu}(\text{MeCN})_4]\text{BF}_4$: formation of $[\text{Et}_4\text{N}][\text{Me}(\text{OAc})\text{Sb}\{\text{Fe}(\text{CO})_4\}_2]$ and $[\text{MeSb}\{\text{Fe}(\text{CO})_4\}\{\text{Fe}_2(\text{CO})_8\}]$, 176

Carboranes

16- and 18-Electron Cp*Rh complexes with 1,2-dicarba-*closo*-dodecaborane(12)-1,2-dichalcogenolato ligands, as studied by multinuclear magnetic resonance, 252

Carboxylates

A novel trinuclear *n*-butyltin cluster⁷ incorporating three ferrocene carboxylate substituents, 132

Catalysis

Intramolecular C–H \cdots O hydrogen bond controlling the conformation of heterocycles: synthesis, structure and catalytic reactivity of aluminum aryloxides, 151

Catalyzed reaction

Palladium- and platinum-catalyzed reactions of benzo[1,2:4,5]bis-(1,1,2,2-tetraethyl-1,2-disilacyclobut-3-ene) with alkenes, 1

Chirality

Chiral palladium(II) complexes bearing tetradentate nitrogen ligands: synthesis, crystal structure and reactivity towards the polymerization of norbornene, 58

Chiral macrocyclic diphosphine

Rhodium cationic complexes using macrocyclic diphosphines as chiral ligands: Application in asymmetric hydroformylation, 136

Clusters

Synthesis and characterisation of *cis* and *trans* isomers of the mixed chalcogen clusters $\text{Cp}_2\text{Mo}_2\text{Fe}_2(\text{CO})_8(\mu_3\text{-S})(\mu_3\text{-Se})$ and $\text{Cp}_2\text{Mo}_2\text{Fe}_2(\text{CO})_8(\mu_3\text{-S})(\mu_3\text{-Te})$, 93

Cobalt complexes

Structure and reactivity of paramagnetic cyclopentadienyl cobalt complexes with bulky alkyl substituents, 267

Copper(I) bromide

Bis(alkynyl)-bipyridyl-platin(II)-Komplexe: Ein einfacher Zugang zu zweikernigen Platin(II)–Kupfer(I)-Verbindungen, 284

Copper(I) chloride

Bis(alkynyl)-bipyridyl-platin(II)-Komplexe: Ein einfacher Zugang zu zweikernigen Platin(II)–Kupfer(I)-Verbindungen, 284

Crystallization

Structure and reactivity of paramagnetic cyclopentadienyl cobalt complexes with bulky alkyl substituents, 267

Crystal structure

Bis-(1,2-*N,N*-dimethylaminomethylferrocenyl)dichlorosilane—structure and reactivity, 9

Chiral palladium(II) complexes bearing tetradentate nitrogen ligands: synthesis, crystal structure and reactivity towards the polymerization of norbornene, 58

Structure and reactivity of paramagnetic cyclopentadienyl cobalt complexes with bulky alkyl substituents, 267

Syntheses and structures of ruthenium(II) complexes bearing hybrid phosphine-thioether ligands, Me₂PCH₂CH₂SR, 290

Synthesis and crystal structure of trimeric sodium 2,2,6,6-tetramethylpiperidide (NaTMP), 88

Synthesis of palladium and platinum complexes containing the multidentate ligands PPh₂CH₂(*t*-Bu)=N–N=C(R)Q (R = H, Me; Q = 2-pyridine, 2-thiophene, *o*-BrC₆H₄). Crystal structure of [PtMe{PPh₂CHC(*t*-Bu)NNCMe(2-py)-κ³*N,N',P*}] and [PdBr{PPh₂CH₂C(*t*-Bu)=N–N=CHC₆H₄}-κ³*C,N,P*], 165

Cyclization

Synthesis of palladium and platinum complexes containing the multidentate ligands PPh₂CH₂(*t*-Bu)=N–N=C(R)Q (R = H, Me; Q = 2-pyridine, 2-thiophene, *o*-BrC₆H₄). Crystal structure of [PtMe{PPh₂CHC(*t*-Bu)NNCMe(2-py)-κ³*N,N',P*}] and [PdBr{PPh₂CH₂C(*t*-Bu)=N–N=CHC₆H₄}-κ³*C,N,P*], 165

Cycloadditions

Pericyclic organometallic reactions. The reactions of (cht)Fe(CO)₂L (L = CO, P(OPh)₃, PPh₃) and (carbomethoxy)maleic anhydride revisited, 81

Cycloheptatriene

Pericyclic organometallic reactions. The reactions of (cht)Fe(CO)₂L (L = CO, P(OPh)₃, PPh₃) and (carbomethoxy)maleic anhydride revisited, 81

Cyclohexene

Friedel–Crafts alkylation of ferrocene with *Z*-cyclooctene and cyclohexene, 122

Cyclooctene

Friedel–Crafts alkylation of ferrocene with *Z*-cyclooctene and cyclohexene, 122

Cyclopentadienyl

Aminosilane as a coupling agent for cyclopentadienyl ligands on silica, 38

Cyclopentadienyl complexes

Synthesis and X-ray crystal structures of mixed sandwich Group 8 cyclopentadienyl complexes containing crown trithioether ligands, 207

Demethylation from phosphines

Reactions of bis[dichloro(η⁵-pentamethylcyclopentadienyl)iridium(III)] with bulky and highly basic aromatic phosphines containing *ortho*-methoxy groups, 49

Density functional theory

The synthesis, characterization and properties of alkyl complexes of the type [Cp*Fe(CO)₂R] (Cp* = η⁵-C₅(CH₃)₅; R = *n*-C₃H₇ to *n*-C₁₂H₂₅); the X-ray crystal and molecular structure of [Cp*Fe(CO)₂(*n*-C₅H₁₁)] and molecular orbital and density functional calculations on the β-hydride elimination of [CpFe(CO)₂(CH₂CH₃)], 28

2 D-Exchange NMR

Selective dynamics of [Rh(1,5-COD)(bidentate)]BF₄ complexes via NMR exchange spectroscopy, 244

(2,6-Dimethoxyphenyl)diphenylphosphine

Reactions of bis[dichloro(η⁵-pentamethylcyclopentadienyl)iridium(III)] with bulky and highly basic aromatic phosphines containing *ortho*-methoxy groups, 49

Dithio-ligand

Synthesis and characterization of d²-molybdenum imido complexes containing coordinated dithio-ligands. MO rationalization of the preferential isomer formation of Mo(N-2,4,6-Me₃C₆H₂)(S₂COMe)Cl(PMe₃)₂, 127

d⁶-Transition metal centers

Interplay of ketenyl and nitrile ligands on d⁶-transition metal centres. Acetonitrile as an end-on (two-electron) and a side-on (four-electron) ligand, 233

Dynamic NMR

Preparation, dynamic NMR behavior and X-ray structure of a novel 1:1 complex of dimethyldivinylsilane and carbonylbis(triphenylphosphine)ruthenium, 299

EHMO calculations

Synthesis and characterization of d²-molybdenum imido complexes containing coordinated dithio-ligands. MO rationalization of the preferential isomer formation of Mo(N-2,4,6-Me₃C₆H₂)(S₂COMe)Cl(PMe₃)₂, 127

Ethylene

Synthesis of bis(1,2,3-substituted cyclopentadienyl)zirconium dichloride derivatives and their use in ethylene polymerization, 181

Ferrocene

A novel trinuclear *n*-butyltin cluster⁷ incorporating three ferrocene carboxylate substituents, 132

Friedel–Crafts alkylation of ferrocene with *Z*-cyclooctene and cyclohexene, 122

Ferrocenophane

Neutral and cationic 1,4-diphospha-2-rhoda-3-thia-[4]-ferrocenophane, 104

Fluorides

Trimethylplatinum hydroxy–fluorides, 195

Fluxionality

Trimethylplatinum hydroxy–fluorides, 195

Free radical oxirane ring cleavage

Trifluoromethylthiocopper-mediated oxirane ring opening, 160

Friedel–Crafts

Friedel–Crafts alkylation of ferrocene with *Z*-cyclooctene and cyclohexene, 122

FTIR spectroscopy

Aminosilane as a coupling agent for cyclopentadienyl ligands on silica, 38

(Germyl)silanes

An alternative route to allylgermanes by the palladium-catalyzed reaction of germylsilanes with allylic halides, 144

Half-open biferrocene

The synthesis of binuclear half-open 1,1'-biferrocene: redox behavior and an interpretation of the ⁵⁷Fe Mössbauer data, 46

Half-open ferrocene

The synthesis of binuclear half-open 1,1'-biferrocene: redox behavior and an interpretation of the ⁵⁷Fe Mössbauer data, 46

Half-sandwich complexes

16- and 18-Electron Cp*Rh complexes with 1,2-dicarba-*closo*-dodecaborane(12)-1,2-dichalcogenolato ligands, as studied by multinuclear magnetic resonance, 252

Haptotropic shifts

Haptotropic shifts in organometallic complexes with η⁵-coordinated π ligands, 221

Heterobimetallic

Neutral and cationic 1,4-diphospha-2-rhoda-3-thia-[4]-ferrocenophane, 104

Hydride

Is the unconventional H⋯H bond more common than expected? Synthesis and X-ray structure of monomeric [Ru(CO)-H₂(PPh₃)₃], 191

β -Hydride elimination

The synthesis, characterization and properties of alkyl complexes of the type $[\text{Cp}^*\text{Fe}(\text{CO})_2\text{R}]$ ($\text{Cp}^* = \eta^5\text{-C}_5(\text{CH}_3)_5$; $\text{R} = n\text{-C}_3\text{H}_7$ to $n\text{-C}_{12}\text{H}_{25}$); the X-ray crystal and molecular structure of $[\text{Cp}^*\text{Fe}(\text{CO})_2(n\text{-C}_5\text{H}_{11})]$ and molecular orbital and density functional calculations on the β -hydride elimination of $[\text{CpFe}(\text{CO})_2(\text{CH}_2\text{CH}_3)]$, 28

Hydrogen bond

Intramolecular C–H \cdots O hydrogen bond controlling the conformation of heterocycles: synthesis, structure and catalytic reactivity of aluminum aryloxides, 151

Is the unconventional H \cdots H bond more common than expected? Synthesis and X-ray structure of monomeric $[\text{Ru}(\text{CO})\text{H}_2(\text{PPh}_3)_3]$, 191

Hydroxides

Trimethylplatinum hydroxy–fluorides, 195

Imido

Synthesis and characterization of d^2 -molybdenum imido complexes containing coordinated dithio-ligands. MO rationalization of the preferential isomer formation of $\text{Mo}(\text{N-2,4,6-Me}_3\text{C}_6\text{H}_2)(\text{S}_2\text{COMe})\text{Cl}(\text{PMe}_3)_2$, 127

Iron

Bis-(1,2-*N,N*-dimethylaminomethylferrocenyl)dichlorosilane—structure and reactivity, 9

Reactivity of $[\text{Et}_4\text{N}]_2[\text{MeSb}\{\text{Fe}(\text{CO})_4\}_3]$ toward HOAc and $[\text{Cu}(\text{MeCN})_4]\text{BF}_4$: formation of $[\text{Et}_4\text{N}][\text{Me}(\text{OAc})\text{Sb}\{\text{Fe}(\text{CO})_4\}_2]$ and $[\text{MeSb}\{\text{Fe}(\text{CO})_4\}\{\text{Fe}_2(\text{CO})_8\}]$, 176

Synthesis and characterisation of *cis* and *trans* isomers of the mixed chalcogen clusters $\text{Cp}_2\text{Mo}_2\text{Fe}_2(\text{CO})_8(\mu_3\text{-S})(\mu_3\text{-Se})$ and $\text{Cp}_2\text{Mo}_2\text{Fe}_2(\text{CO})_8(\mu_3\text{-S})(\mu_3\text{-Te})$, 93

Iron complexes

Pericyclic organometallic reactions. The reactions of $(\text{cht})\text{-Fe}(\text{CO})_2\text{L}$ ($\text{L} = \text{CO}$, $\text{P}(\text{OPh})_3$, PPh_3) and (carbomethoxy)-maleic anhydride revisited, 81

Iron–rhodium

Neutral and cationic 1,4-diphospha-2-rhoda-3-thia-[4]-ferrocenophane, 104

Ketenyl

Interplay of ketenyl and nitrile ligands on d^6 -transition metal centres. Acetonitrile as an end-on (two-electron) and a side-on (four-electron) ligand, 233

Lanthanides

Tris(trimethylsilyl)siloxides of gadolinium and lanthanum: synthesis, structure and some properties, 113

Lead

The structure of triphenyl(1-phenyl-5-mercapto-1*H*-1,2,3,4-tetrazolato)lead(IV): towards the first example of a π -coordinated metallotetrazole?, 101

Lithium

Synthesis and crystal structure of trimeric sodium 2,2,6,6-tetramethylpiperidide (NaTMP), 88

Magnetism

Structure and reactivity of paramagnetic cyclopentadienyl cobalt complexes with bulky alkyl substituents, 267

Metal complexes

Metal complexes based on monosaccharide bicyclic phosphites as new available chiral coordination systems, 18

Metallocanes

Influence of the steric effect on the conformation of stannocanes. The synthesis and X-ray structure of $\text{X}(\text{CH}_2\text{CH}_2\text{S})_2\text{Sn}(n\text{-Bu})\text{Cl}$ ($\text{X} = \text{S}, \text{O}$), 215

Molecular orbital

The synthesis, characterization and properties of alkyl complexes of the type $[\text{Cp}^*\text{Fe}(\text{CO})_2\text{R}]$ ($\text{Cp}^* = \eta^5\text{-C}_5(\text{CH}_3)_5$; $\text{R} = n\text{-C}_3\text{H}_7$ to $n\text{-C}_{12}\text{H}_{25}$); the X-ray crystal and molecular structure of $[\text{Cp}^*\text{Fe}(\text{CO})_2(n\text{-C}_5\text{H}_{11})]$ and molecular orbital and density functional calculations on the β -hydride elimination of $[\text{CpFe}(\text{CO})_2(\text{CH}_2\text{CH}_3)]$, 28

Molecular orbital calculations

Haptotropic shifts in organometallic complexes with η^5 -coordinated π ligands, 221

Molybdenum

Synthesis and characterisation of *cis* and *trans* isomers of the mixed chalcogen clusters $\text{Cp}_2\text{Mo}_2\text{Fe}_2(\text{CO})_8(\mu_3\text{-S})(\mu_3\text{-Se})$ and $\text{Cp}_2\text{Mo}_2\text{Fe}_2(\text{CO})_8(\mu_3\text{-S})(\mu_3\text{-Te})$, 93

Synthesis and characterization of d^2 -molybdenum imido complexes containing coordinated dithio-ligands. MO rationalization of the preferential isomer formation of $\text{Mo}(\text{N-2,4,6-Me}_3\text{C}_6\text{H}_2)(\text{S}_2\text{COMe})\text{Cl}(\text{PMe}_3)_2$, 127

Monosaccharides

Metal complexes based on monosaccharide bicyclic phosphites as new available chiral coordination systems, 18

Mössbauer spectroscopy

Bis-(1,2-*N,N*-dimethylaminomethylferrocenyl)dichlorosilane—structure and reactivity, 9

Nickel

Synthesis and characterization of Ni-, Pd- and Pt-complexes of functionalized, tripodal phosphine ligands, 258

Nitrile

Interplay of ketenyl and nitrile ligands on d^6 -transition metal centres. Acetonitrile as an end-on (two-electron) and a side-on (four-electron) ligand, 233

NMR

16- and 18-Electron Cp^*Rh complexes with 1,2-dicarba-*closo*-dodecaborane(12)-1,2-dichalcogenolato ligands, as studied by multinuclear magnetic resonance, 252

NMR spectroscopy

The NMR spectroscopic and X-ray crystallographic study of the oxidative addition of bis(2-thienyl) diselenide to zerovalent palladium and platinum centers, 200

1,2-*N,N*-Dimethylaminomethylferrocenyl

Bis-(1,2-*N,N*-dimethylaminomethylferrocenyl)dichlorosilane—structure and reactivity, 9

Norbornene polymerization

Chiral palladium(II) complexes bearing tetradentate nitrogen ligands: synthesis, crystal structure and reactivity towards the polymerization of norbornene, 58

Nuclear magnetic resonance

Aminosilane as a coupling agent for cyclopentadienyl ligands on silica, 38

***o*-Carboranes**

Synthesis of new arylcarboranes as precursors for oligomers, 67

Oligomers

Synthesis of new arylcarboranes as precursors for oligomers, 67

Optical activity

Bis-(1,2-*N,N*-dimethylaminomethylferrocenyl)dichlorosilane—structure and reactivity, 9

Organoplatinum

Trimethylplatinum hydroxy–fluorides, 195

Organotin hydrides

1,2-Stereoinduction in the asymmetric hydrostannation of (*E*)- and (*Z*)-trisubstituted ethylenes with (–)-menthyl-dimethyltin hydride, 74

Oxidative addition

Neutral and cationic 1,4-diphospha-2-rhoda-3-thia-[4]-ferrocenophane, 104

Palladium

Palladium- and platinum-catalyzed reactions of benzo[1,2:4,5]-bis(1,1,2,2-tetraethyl-1,2-disilacyclobut-3-ene) with alkenes, 1

Synthesis and characterization of Ni-, Pd- and Pt-complexes of functionalized, tripodal phosphine ligands, 258

Synthesis of palladium and platinum complexes containing the multidentate ligands $\text{PPh}_2\text{CH}_2(\text{tBu})=\text{N}=\text{C}(\text{R})\text{Q}$ (R = H, Me; Q = 2-pyridine, 2-thiophene, *o*-BrC₆H₄). Crystal structure of $[\text{PtMe}\{\text{PPh}_2\text{CHC}(\text{tBu})\text{NNCMe}(2\text{-py})-\kappa^3\text{N},\text{N}',\text{P}\}]$ and $[\text{PdBr}\{\text{PPh}_2\text{CH}_2\text{C}(\text{tBu})=\text{N}=\text{N}=\text{CHC}_6\text{H}_4\}-\kappa^3\text{C},\text{N},\text{P}]$, 165

Palladium catalysis

An alternative route to allylgermanes by the palladium-catalyzed reaction of germysilanes with allylic halides, 144

Palladium complex

The NMR spectroscopic and X-ray crystallographic study of the oxidative addition of bis(2-thienyl) diselenide to zerovalent palladium and platinum centers, 200

Palladium(II) polymerization catalysts

Chiral palladium(II) complexes bearing tetradentate nitrogen ligands: synthesis, crystal structure and reactivity towards the polymerization of norbornene, 58

Pauson–Khand reaction

Synthesis of bis(1,2,3-substituted cyclopentadienyl)zirconium dichloride derivatives and their use in ethylene polymerization, 181

Phosphine-thioether ligands

Syntheses and structures of ruthenium(II) complexes bearing hybrid phosphine-thioether ligands, $\text{Me}_2\text{PCH}_2\text{CH}_2\text{SR}$, 290

Phosphino hydrazone

Synthesis of palladium and platinum complexes containing the multidentate ligands $\text{PPh}_2\text{CH}_2(\text{tBu})=\text{N}=\text{C}(\text{R})\text{Q}$ (R = H, Me; Q = 2-pyridine, 2-thiophene, *o*-BrC₆H₄). Crystal structure of $[\text{PtMe}\{\text{PPh}_2\text{CHC}(\text{tBu})\text{NNCMe}(2\text{-py})-\kappa^3\text{N},\text{N}',\text{P}\}]$ and $[\text{PdBr}\{\text{PPh}_2\text{CH}_2\text{C}(\text{tBu})=\text{N}=\text{N}=\text{CHC}_6\text{H}_4\}-\kappa^3\text{C},\text{N},\text{P}]$, 165

Platinum

Palladium- and platinum-catalyzed reactions of benzo[1,2:4,5]-bis(1,1,2,2-tetraethyl-1,2-disilacyclobut-3-ene) with alkenes, 1

Synthesis and characterization of Ni-, Pd- and Pt-complexes of functionalized, tripodal phosphine ligands, 258

Synthesis of palladium and platinum complexes containing the multidentate ligands $\text{PPh}_2\text{CH}_2(\text{tBu})=\text{N}=\text{C}(\text{R})\text{Q}$ (R = H, Me; Q = 2-pyridine, 2-thiophene, *o*-BrC₆H₄). Crystal structure of $[\text{PtMe}\{\text{PPh}_2\text{CHC}(\text{tBu})\text{NNCMe}(2\text{-py})-\kappa^3\text{N},\text{N}',\text{P}\}]$ and $[\text{PdBr}\{\text{PPh}_2\text{CH}_2\text{C}(\text{tBu})=\text{N}=\text{N}=\text{CHC}_6\text{H}_4\}-\kappa^3\text{C},\text{N},\text{P}]$, 165

Platinum complex

The NMR spectroscopic and X-ray crystallographic study of the oxidative addition of bis(2-thienyl) diselenide to zerovalent palladium and platinum centers, 200

Platinum(II)

Bis(alkinyl)-bipyridyl-platin(II)-Komplexe: Ein einfacher Zugang zu zweikernigen Platin(II)–Kupfer(I)-Verbindungen, 284

P–O and P,O,O' chelating ligands

Reactions of bis[dichloro(η^5 -pentamethylcyclopentadienyl)iridium(III)] with bulky and highly basic aromatic phosphines containing *ortho*-methoxy groups, 49

Polymerization

Synthesis of bis(1,2,3-substituted cyclopentadienyl)zirconium dichloride derivatives and their use in ethylene polymerization, 181

Polytopal rearrangement

Preparation, dynamic NMR behavior and X-ray structure of a novel 1:1 complex of dimethyldivinylsilane and carbonyl-bis(triphenylphosphine)ruthenium, 299

Radical additions

1,2-Stereoiduction in the asymmetric hydrostannation of (*E*)- and (*Z*)-trisubstituted ethylenes with (–)-menthylidimethyltin hydride, 74

Redox behavior

The synthesis of binuclear half-open 1,1'-biferrocene: redox behavior and an interpretation of the ⁵⁷Fe Mössbauer data, 46

Regioselectivity

An alternative route to allylgermanes by the palladium-catalyzed reaction of germysilanes with allylic halides, 144

¹⁰³Rh

16- and 18-Electron Cp*Rh complexes with 1,2-dicarba-*closo*-dodecaborane(12)-1,2-dichalcogenolato ligands, as studied by multinuclear magnetic resonance, 252

 $[\text{Rh}(1,5\text{-COD})(\text{bidentate})]^+$

Selective dynamics of $[\text{Rh}(1,5\text{-COD})(\text{bidentate})]\text{BF}_4$ complexes via NMR exchange spectroscopy, 244

Rhodium

16- and 18-Electron Cp*Rh complexes with 1,2-dicarba-*closo*-dodecaborane(12)-1,2-dichalcogenolato ligands, as studied by multinuclear magnetic resonance, 252

Rhodium cationic complexes using macrocyclic diphosphines as chiral ligands: Application in asymmetric hydroformylation, 136

Ring conformation

Influence of the steric effect on the conformation of stannocanes. The synthesis and X-ray structure of $\text{X}(\text{CH}_2\text{CH}_2\text{S})_2\text{Sn}(\text{n-Bu})\text{Cl}$ (X = S, O), 215

Ring-folding

Haptotropic shifts in organometallic complexes with η^5 -coordinated π ligands, 221

Ring-slippage

Haptotropic shifts in organometallic complexes with η^5 -coordinated π ligands, 221

Ruthenium

Is the unconventional H...H bond more common than expected? Synthesis and X-ray structure of monomeric $[\text{Ru}(\text{CO})\text{H}_2(\text{PPh}_3)_3]$, 191

Preparation, dynamic NMR behavior and X-ray structure of a novel 1:1 complex of dimethyldivinylsilane and carbonyl-bis(triphenylphosphine)ruthenium, 299

Ruthenium complexes

Synthesis and X-ray crystal structures of mixed sandwich Group 8 cyclopentadienyl complexes containing crown trithioether ligands, 207

Ruthenium(II) complexes

Syntheses and structures of ruthenium(II) complexes bearing hybrid phosphine-thioether ligands, $\text{Me}_2\text{PCH}_2\text{CH}_2\text{SR}$, 290

Schiff bases

Chiral palladium(II) complexes bearing tetradentate nitrogen ligands: synthesis, crystal structure and reactivity towards the polymerization of norbornene, 58

⁷⁷Se

16- and 18-Electron Cp*Rh complexes with 1,2-dicarba-*closo*-dodecaborane(12)-1,2-dichalcogenolato ligands, as studied by multinuclear magnetic resonance, 252

Sigmahaptotropic rearrangements

Pericyclic organometallic reactions. The reactions of $(\text{cht})\text{Fe}(\text{CO})_2\text{L}$ (L = CO, P(OPh)₃, PPh₃) and (carbomethoxy)maleic anhydride revisited, 81

Silane

Aminosilane as a coupling agent for cyclopentadienyl ligands on silica, 38

Silica

Aminosilane as a coupling agent for cyclopentadienyl ligands on silica, 38

- Silicon**
 Bis-(1,2-*N,N*-dimethylaminomethylferrocenyl)dichlorosilane—
 structure and reactivity, 9
 Tris(trimethylsilyl)siloxides of gadolinium and lanthanum: synthe-
 sis, structure and some properties, 113
- Siloxides**
 Tris(trimethylsilyl)siloxides of gadolinium and lanthanum: synthe-
 sis, structure and some properties, 113
- Sodium**
 Synthesis and crystal structure of trimeric sodium 2,2,6,6-tetra-
 methylpiperidine (NaTMP), 88
- Stereo-selectivity**
 An alternative route to allylgermanes by the palladium-catalyzed
 reaction of germysilanes with allylic halides, 144
- Structure**
 The structure of triphenyl(1-phenyl-5-mercapto-1*H*-1,2,3,4-tetra-
 zolato)lead(IV): towards the first example of a π -coordi-
 nated metallotetrazole?, 101
- Styrene oxide**
 Trifluoromethylthiocopper-mediated oxirane ring opening, 160
- ¹²⁵Te
 16- and 18-Electron Cp*Rh complexes with 1,2-dicarba-*closo*-dode-
 caborane(12)-1,2-dichalcogenolato ligands, as studied by
 multinuclear magnetic resonance, 252
- Tetradentate nitrogen ligands**
 Chiral palladium(II) complexes bearing tetradentate nitrogen lig-
 ands: synthesis, crystal structure and reactivity towards the
 polymerization of norbornene, 58
- Tetraisopropylcyclopentadienyl**
 Structure and reactivity of paramagnetic cyclopentadienyl cobalt
 complexes with bulky alkyl substituents, 267
- Tetrazole**
 The structure of triphenyl(1-phenyl-5-mercapto-1*H*-1,2,3,4-tetra-
 zolato)lead(IV): towards the first example of a π -coordi-
 nated metallotetrazole?, 101
- Thioethers**
 Synthesis and X-ray crystal structures of mixed sandwich Group 8
 cyclopentadienyl complexes containing crown trithioether
 ligands, 207
- Tin**
 A novel trinuclear *n*-butyltin cluster⁷ incorporating three fer-
 rocene carboxylate substituents, 132
- Tin compounds**
 Influence of the steric effect on the conformation of stannocanes.
 The synthesis and X-ray structure of X(CH₂CH₂S)₂Sn(*n*-
 Bu)Cl (X = S, O), 215
- Tricarbonylmanganese**
 Haptotropic shifts in organometallic complexes with η^5 -coordi-
 nated π ligands, 221
- Trifluoromethylthiocopper**
 Trifluoromethylthiocopper-mediated oxirane ring opening, 160
- Triphenylphosphine**
 Is the unconventional H \cdots H bond more common than expected?
 Synthesis and X-ray structure of monomeric [Ru(CO)-
 H₂(PPh₃)₃], 191
- Tripodal phosphine**
 Synthesis and characterization of Ni-, Pd- and Pt-complexes of
 functionalized, tripodal phosphine ligands, 258
- Tris(2,6-dimethoxyphenyl)phosphine**
 Reactions of bis[dichloro(η^5 -pentamethylcyclopentadienyl)iridium-
 (III)] with bulky and highly basic aromatic phosphines
 containing *ortho*-methoxy groups, 49
- Tri(*tert*-butyl)cyclopentadienyl**
 Structure and reactivity of paramagnetic cyclopentadienyl cobalt
 complexes with bulky alkyl substituents, 267
- Trithiacyclononane**
 Synthesis and X-ray crystal structures of mixed sandwich Group 8
 cyclopentadienyl complexes containing crown trithioether
 ligands, 207
- Vinylsilanes**
 Preparation, dynamic NMR behavior and X-ray structure of a
 novel 1:1 complex of dimethyldivinylsilane and carbonyl-
 bis(triphenylphosphine)ruthenium, 299
- X-ray**
 16- and 18-Electron Cp*Rh complexes with 1,2-dicarba-*closo*-do-
 decaborane(12)-1,2-dichalcogenolato ligands, as studied by
 multinuclear magnetic resonance, 252
 Preparation, dynamic NMR behavior and X-ray structure of a
 novel 1:1 complex of dimethyldivinylsilane and carbonyl-
 bis(triphenylphosphine)ruthenium, 299
 Synthesis and characterization of Ni-, Pd- and Pt-complexes of
 functionalized, tripodal phosphine ligands, 258
- X-ray crystallography**
 The NMR spectroscopic and X-ray crystallographic study of the
 oxidative addition of bis(2-thienyl) diselenide to zerovalent
 palladium and platinum centers, 200
- X-ray diffraction**
 Reactivity of [Et₄N]₂[MeSb{Fe(CO)₄}₃] toward HOAc and
 [Cu(MeCN)₄]BF₄: formation of [Et₄N][Me(OAc)Sb-
 {Fe(CO)₄}₂] and [MeSb{Fe(CO)₄}{Fe₂(CO)₈}], 176
 Selective dynamics of [Rh(1,5-COD)(bidentate)]BF₄ complexes via
 NMR exchange spectroscopy, 244
 Tris(trimethylsilyl)siloxides of gadolinium and lanthanum: synthe-
 sis, structure and some properties, 113
- X-ray structure**
 Influence of the steric effect on the conformation of stannocanes.
 The synthesis and X-ray structure of X(CH₂CH₂S)₂Sn-
 (*n*-Bu)Cl (X = S, O), 215
- Zirconocene**
 Synthesis of bis(1,2,3-substituted cyclopentadienyl)zirconium
 dichloride derivatives and their use in ethylene polymeriza-
 tion, 181