

Subject index of Volume 563

Acetylide

Organometallic complexes for nonlinear optics. 15. Molecular quadratic hyperpolarizabilities of *trans*-bis{bis(diphenylphosphino)methane}ruthenium σ -aryl- and σ -pyridyl-acetylides: X-ray crystal structure of *trans*-[Ru(2-C \equiv CC₅H₃N-5-NO₂)Cl(dppm)₂], 137

Alkyl

β -Elimination and insertion of CNR in transient pentamethylcyclopentadienyl-imido-tantalum dialkyl complexes. X-ray structure of [TaCp*{N(2,6-Me₂C₆H₃)}(CH₂=CH₂)(PMe₃)], 15

Alkylidene

Structure and electrochemical behavior of alkylidene-bridged metalladithiolene complexes (metals: cobalt and rhodium): bond cleavage of alkylidene moieties by electrochemical redox reactions, 161

Alkyne

Synthesis, reaction chemistry and electrochemical behaviour of (η^5 -C₅H₄SiMe₃)₂Hf(C \equiv CFc)₂, 73

Alkyne complexes

Metallorganische Verbindungen des Kupfers und Silbers XV. Synthese und Struktur von Alkin-Silber(I)-Komplexen des Typs [AgX(η^2 -Cycloalkin)] (X = NO₃, NO₂, CN, BF₄, OSO₂CF₃, CH₃COO, CF₃COO, Hexafluoracetylacetonat; Cycloalkin = 3,3,6,6 Tetramethyl-1-thia-4-cycloheptin und 3,3,6,6-Tetramethyl-1-thia-4-cycloheptin-1,1-dioxid), 235

Alkynyl

Organometallic complexes for nonlinear optics. 15. Molecular quadratic hyperpolarizabilities of *trans*-bis{bis(diphenylphosphino)methane}ruthenium σ -aryl- and σ -pyridyl-acetylides: X-ray crystal structure of *trans*-[Ru(2-C \equiv CC₅H₃N-5-NO₂)Cl(dppm)₂], 137

Allyl complex

Gas-phase photoelectron spectroscopic study of (σ -allyl)Mn(CO)₅ and (σ -allyl)Re(CO)₅, 147

1,1'-Bis(diphenylphosphino)cobaltocene

Novel behaviour and reactivity in 1,1'-bis(diphenylphosphino)ferrocene and 1,1'-bis(diphenylphosphino)cobaltocene cluster derivatives, 113

1,1'-Bis(diphenylphosphino)ferrocene

Novel behaviour and reactivity in 1,1'-bis(diphenylphosphino)ferrocene and 1,1'-bis(diphenylphosphino)cobaltocene cluster derivatives, 113

Bridged ligands

Regioselective formation of [2-(η^5 -cyclopentadienyl)-2-fluorenylpropane]-titanium complexes: precursors, synthesis, structure and reactivity, 7

Carbon monoxide

The effect of CO on the reaction of (tributyltin)lithium with alkyl and aryl bromides, 31

Carbonylation

Carbonylation (hydroformylation and hydroalkoxycarbonylation) of styrene in the presence of transition metal-ferrocene-based aminophosphine systems, 37

Carbonyl complexes

Reaction of Fe(CO)₂(η^2 -CS₂){P(OR)₃}₂ with phosphines: desulphurization versus substitution. Crystal structures of Fe(CO)₂(CS){P(OPh)₃}₂ and Fe(CO)₃{P(OPh)₃}₂, 201

Carbyne complexes

Further investigations on C–C bond formation at the diruthenium aminocarbyne complexes [Ru₂{ μ -CN(Me)R}{ μ -CO}(CO)₂(Cp)₂}SO₃CF₃ (R = Me, CH₂Ph) and molecular structure of [Ru₂(μ -CNMe₂)(μ -CO)(COPh)(CO)(Cp)₂], 153

Synthesis, crystal structures and spectroscopic properties of cationic carbyne complexes of molybdenum and tungsten supported by tripodal nitrogen, phosphorus and sulphur donor ligands, 191

C–C bond formation

Further investigations on C–C bond formation at the diruthenium aminocarbyne complexes [Ru₂{ μ -CN(Me)R}{ μ -CO}(CO)₂(Cp)₂}SO₃CF₃ (R = Me, CH₂Ph) and molecular structure of [Ru₂(μ -CNMe₂)(μ -CO)(COPh)(CO)(Cp)₂], 153

Chiral complexes

Optically active transition metal complexes. Part 115. Synthesis, crystal structure and properties of chiral (η^5 -C₅H₃)Ru complexes with pyrrolecarbaldiminato and salicylaldiminato ligands, 173

Chlorosilanes

Penta-coordinated chlorosilanes: reaction chemistry, structure and bonding, 61

Cobalt

Reactions of 1,1-dichloro-, 1-chloro-1-phenyl- and 1-chloro-1-methylsilylcyclopent-3-ene with Na[Cp(CO)₂Fe]. X-ray diffraction study of the 1-(dicarbonylcyclopentadienylferrio)-1-[4-(dicarbonylcyclopentadienylferrio)but-1-oxyl]-silylcyclopent-3-ene resulting from insertion of an opened THF molecule into a Si–Fe bond, 53

Redox disproportionation and radical coupling products of formyl(pentamethyl)cobaltocene, 219

Cobaltocene

Redox disproportionation and radical coupling products of formyl(pentamethyl)cobaltocene, 219

Copper(I)

Metallorganische Verbindungen des Kupfers und Silbers XV. Synthese und Struktur von Alkin-Silber(I)-Komplexen des Typs [AgX(η^2 -Cycloalkin)] (X = NO₃, NO₂, CN, BF₄, OSO₂CF₃, CH₃COO, CF₃COO, Hexafluoracetylacetonat; Cycloalkin = 3,3,6,6 Tetramethyl-1-thia-4-cycloheptin und 3,3,6,6-Tetramethyl-1-thia-4-cycloheptin-1,1-dioxid), 235

Crystal structure

Effects of chlorine substituents upon the formation, reactivity and electrochemical properties of platinum(II) and platinum(IV) metallacycles, 179

Formation of a strained [3]ferrocenophane via base-catalyzed intramolecular cyclization, 95

Further investigations on C–C bond formation at the diruthenium aminocarbyne complexes [Ru₂{ μ -CN(Me)R}{ μ -CO}(CO)₂(Cp)₂}SO₃CF₃ (R = Me, CH₂Ph) and molecular structure of [Ru₂(μ -CNMe₂)(μ -CO)(COPh)(CO)(Cp)₂], 153

- Optically active transition metal complexes. Part 115. Synthesis, crystal structure and properties of chiral ($\eta^5\text{-C}_5\text{H}_5$)Ru complexes with pyrrolocarbaldiminato and salicylaldiminato ligands, 173
- Oxidation of Ru(dppe)(CO)₃ with *o*- and *p*-quinones. Crystal structure of Ru[C(O)OC₆H₂(C₄H₉)₂O](dppe)(CO)₂, 1
- Crystal structures
- Synthesis, crystal structures and spectroscopic properties of cationic carbyne complexes of molybdenum and tungsten supported by tripodal nitrogen, phosphorus and sulphur donor ligands, 191
- Cyclic voltammetry
- Structure and electrochemical behavior of alkylidene-bridged metalladithiolene complexes (metals: cobalt and rhodium): bond cleavage of alkylidene moieties by electrochemical redox reactions, 161
- Cycloalkynes
- Metallorganische Verbindungen des Kupfers und Silbers XV. Synthese und Struktur von Alkin-Silber(I)-Komplexen des Typs [AgX(η^2 -Cycloalkin)] (X = NO₃, NO₂, CN, BF₄, OSO₂CF₃, CH₃COO, CF₃COO, Hexafluoracetylacetonat; Cycloalkin = 3,3,6,6-Tetramethyl-1-thia-4-cycloheptin und 3,3,6,6-Tetramethyl-1-thia-4-cycloheptin-1,1-dioxid), 235
- Cyclometallation
- Effects of chlorine substituents upon the formation, reactivity and electrochemical properties of platinum(II) and platinum(IV) metallacycles, 179
- Cyclopentadienyl
- Regioselective formation of [2-(η^5 -cyclopentadienyl)-2-fluorenylpropane]-titanium complexes: precursors, synthesis, structure and reactivity, 7
- Desulphurization
- Reaction of Fe(CO)₂(η^2 -CS₂){P(OR)₃}₂ with phosphines: desulphurization versus substitution. Crystal structures of Fe(CO)₂(CS){P(OPh)₃}₂ and Fe(CO)₃{P(OPh)₃}₂, 201
- Dysprosium
- A novel bonding mode of tetrazolate ligand to a metal: synthesis and structural characterization of 5-phenyltetrazolate organolanthanide complexes: [(C₅H₄Me)(C₅H₅)LnTz]₂ [(C₅H₄Me)₂LnTz]₂ (Ln = Dy, Gd) and [(C₅H₄Me)₂-LnTz]₂ (Ln = Yb, Er), 101
- Electrochemistry
- Effects of chlorine substituents upon the formation, reactivity and electrochemical properties of platinum(II) and platinum(IV) metallacycles, 179
- Structure and electrochemical behavior of alkylidene-bridged metalladithiolene complexes (metals: cobalt and rhodium): bond cleavage of alkylidene moieties by electrochemical redox reactions, 161
- Electronic absorption spectra
- Vapor-phase and solution-phase UV spectroscopic studies of η^5 -pentadienyl derivatives of iron and ruthenium, 209
- Electron transfer
- The effect of CO on the reaction of (tributyltin)lithium with alkyl and aryl bromides, 31
- Erbium
- A novel bonding mode of tetrazolate ligand to a metal: synthesis and structural characterization of 5-phenyltetrazolate organolanthanide complexes: [(C₅H₄Me)(C₅H₅)LnTz]₂ [(C₅H₄Me)₂LnTz]₂ (Ln = Dy, Gd) and [(C₅H₄Me)₂-LnTz]₂ (Ln = Yb, Er), 101
- Ferrocene
- Carbonylation (hydroformylation and hydroalkoxycarbonylation) of styrene in the presence of transition metal-ferrocene-based aminophosphine systems, 37
- Synthesis and characterization of novel derivatives of *N*-(ferrocenesulfonyl)carbamic acid. X-ray structure determination of ferrocenesulfonamide and *N*-(ferrocenesulfonyl)-*N'*-butylurea, 81
- Synthesis, reaction chemistry and electrochemical behaviour of (η^5 -C₅H₄SiMe₃)₂Hf(C≡CFC)₂, 73
- [3]ferrocenophane
- Formation of a strained [3]ferrocenophane via base-catalyzed intramolecular cyclization, 95
- Fluorenyl
- Regioselective formation of [2-(η^5 -cyclopentadienyl)-2-fluorenylpropane]-titanium complexes: precursors, synthesis, structure and reactivity, 7
- Formyl(pentamethyl)cobaltocene
- Redox disproportionation and radical coupling products of formyl(pentamethyl)cobaltocene, 219
- Gadolinium
- A novel bonding mode of tetrazolate ligand to a metal: synthesis and structural characterization of 5-phenyltetrazolate organolanthanide complexes: [(C₅H₄Me)(C₅H₅)LnTz]₂ [(C₅H₄Me)₂LnTz]₂ (Ln = Dy, Gd) and [(C₅H₄Me)₂-LnTz]₂ (Ln = Yb, Er), 101
- Group 13
- Syntheses and reactions of Saltren-Group 13 complexes, 87
- Hafnocene
- Synthesis, reaction chemistry and electrochemical behaviour of (η^5 -C₅H₄SiMe₃)₂Hf(C≡CFC)₂, 73
- [Hg{M(CO)₄}]₂²⁻
- Systematic syntheses of [Hg{M(CO)₄}]₂²⁻, [Hg{M(CO)₄}]_x (M = Fe, Ru, Os), and structures of [Hg{M(CO)₄}]₂²⁻ (M = Ru, Os), 23
- [Hg{M(CO)₄}]_x
- Systematic syntheses of [Hg{M(CO)₄}]₂²⁻, [Hg{M(CO)₄}]_x (M = Fe, Ru, Os), and structures of [Hg{M(CO)₄}]₂²⁻ (M = Ru, Os), 23
- Hydroformylation
- Carbonylation (hydroformylation and hydroalkoxycarbonylation) of styrene in the presence of transition metal-ferrocene-based aminophosphine systems, 37
- Hyperpolarizability
- Organometallic complexes for nonlinear optics. 15. Molecular quadratic hyperpolarizabilities of *trans*-bis{bis(diphenylphosphino)methane}ruthenium σ -aryl- and σ -pyridylacetylides: X-ray crystal structure of *trans*-[Ru(2-C≡C₅-H₃N-5-NO₂)Cl(dppm)]₂, 137
- Imido
- β -Elimination and insertion of CNR in transient pentamethylcyclopentadienyl-imido-tantalum dialkyl complexes. X-ray structure of [TaCp*{N(2,6-Me₂C₆H₃)}(CH₂=CH₂)(PMe₃)], 15
- Iminoacyl
- β -Elimination and insertion of CNR in transient pentamethylcyclopentadienyl-imido-tantalum dialkyl complexes. X-ray structure of [TaCp*{N(2,6-Me₂C₆H₃)}(CH₂=CH₂)(PMe₃)], 15
- Intramolecular cyclization
- Formation of a strained [3]ferrocenophane via base-catalyzed intramolecular cyclization, 95
- Iron
- Einkernige Carbonylmetall-Komplexe des Eisens und Rutheniums, M(CO)_n[P(C₇H₇)₃] (M = Fe, Ru; n = 4,3,2), mit dem mehrzähligen Liganden Tri(1-cyclohepta-2,4,6-trienyl)phosphan, 227

- Reactions of 1,1-dichloro-, 1-chloro-1-phenyl- and 1-chloro-1-methylsilacyclopent-3-ene with $\text{Na}[\text{Cp}(\text{CO})_2\text{Fe}]$. X-ray diffraction study of the 1-(dicarbonylcyclopentadienylferrio)-1-[4-(dicarbonylcyclopentadienylferrio)but-1-oxyl]-silacyclopent-3-ene resulting from insertion of an opened THF molecule into a Si–Fe bond, 53
- Vapor-phase and solution-phase UV spectroscopic studies of η^5 -pentadienyl derivatives of iron and ruthenium, 209
- Lithium**
The effect of CO on the reaction of (tributyltin)lithium with alkyl and aryl bromides, 31
- Manganese**
Gas-phase photoelectron spectroscopic study of (σ -allyl) $\text{Mn}(\text{CO})_5$ and (σ -allyl) $\text{Re}(\text{CO})_5$, 147
- Metalladithiolene**
Structure and electrochemical behavior of alkylidene-bridged metalladithiolene complexes (metals: cobalt and rhodium): bond cleavage of alkylidene moieties by electrochemical redox reactions, 161
- Methylcyclopentadienyl**
A novel bonding mode of tetrazolate ligand to a metal: synthesis and structural characterization of 5-phenyltetrazolate organolanthanide complexes: $[\{(\text{C}_5\text{H}_4\text{Me})(\text{C}_5\text{H}_5)\text{LnTz}\}_2]$ $[\{(\text{C}_5\text{H}_4\text{Me})_2\text{LnTz}\}_2]$ (Ln = Dy, Gd) and $[(\text{C}_5\text{H}_4\text{Me})_2\text{-LnTz}]_2$ (Ln = Yb, Er), 101
- Molybdenum**
Synthesis, crystal structures and spectroscopic properties of cationic carbyne complexes of molybdenum and tungsten supported by tripodal nitrogen, phosphorus and sulphur donor ligands, 191
- N-donor ligands**
Effects of chlorine substituents upon the formation, reactivity and electrochemical properties of platinum(II) and platinum(IV) metallacycles, 179
- Nickelcarbonyl**
Synthesis, reaction chemistry and electrochemical behaviour of (η^5 - $\text{C}_5\text{H}_4\text{SiMe}_3$) $_2\text{Hf}(\text{C}\equiv\text{CFC})_2$, 73
- NMR**
Einkernige Carbonylmetall-Komplexe des Eisens und Rutheniums, $\text{M}(\text{CO})_n[\text{P}(\text{C}_7\text{H}_7)_3]$ (M = Fe, Ru; $n = 4,3,2$), mit dem mehrzähligen Liganden Tri(1-cyclohepta-2,4,6-trienyl)-phosphan, 227
- Nonlinear optics**
Organometallic complexes for nonlinear optics. 15. Molecular quadratic hyperpolarizabilities of *trans*-bis{bis(diphenylphosphino)methane}ruthenium σ -aryl- and σ -pyridyl-acetylides: X-ray crystal structure of *trans*- $[\text{Ru}(\text{C}\equiv\text{CC}_5\text{H}_3\text{N}-5\text{-NO}_2)\text{Cl}(\text{dppm})_2]$, 137
- Nuclear magnetic resonance**
Carbonylation (hydroformylation and hydroalkoxycarbonylation) of styrene in the presence of transition metal–ferrocene-based aminophosphine systems, 37
- Olefin complexes**
Einkernige Carbonylmetall-Komplexe des Eisens und Rutheniums, $\text{M}(\text{CO})_n[\text{P}(\text{C}_7\text{H}_7)_3]$ (M = Fe, Ru; $n = 4,3,2$), mit dem mehrzähligen Liganden Tri(1-cyclohepta-2,4,6-trienyl)-phosphan, 227
- Opened THF**
Reactions of 1,1-dichloro-, 1-chloro-1-phenyl- and 1-chloro-1-methylsilacyclopent-3-ene with $\text{Na}[\text{Cp}(\text{CO})_2\text{Fe}]$. X-ray diffraction study of the 1-(dicarbonylcyclopentadienylferrio)-1-[4-(dicarbonylcyclopentadienylferrio)but-1-oxyl]-silacyclopent-3-ene resulting from insertion of an opened THF molecule into a Si–Fe bond, 53
- Organolanthanide**
A novel bonding mode of tetrazolate ligand to a metal: synthesis and structural characterization of 5-phenyltetrazolate organolanthanide complexes: $[\{(\text{C}_5\text{H}_4\text{Me})(\text{C}_5\text{H}_5)\text{LnTz}\}_2]$ $[\{(\text{C}_5\text{H}_4\text{Me})_2\text{LnTz}\}_2]$ (Ln = Dy, Gd) and $[(\text{C}_5\text{H}_4\text{Me})_2\text{-LnTz}]_2$ (Ln = Yb, Er), 101
- OTTLE**
Structure and electrochemical behavior of alkylidene-bridged metalladithiolene complexes (metals: cobalt and rhodium): bond cleavage of alkylidene moieties by electrochemical redox reactions, 161
- Oxidation**
Oxidation of $\text{Ru}(\text{dppe})(\text{CO})_3$ with *o*- and *p*-quinones. Crystal structure of $\text{Ru}[\text{C}(\text{O})\text{OC}_6\text{H}_2(\text{C}_4\text{H}_9)_2\text{O}](\text{dppe})(\text{CO})_2$, 1
- Palladium**
Carbonylation (hydroformylation and hydroalkoxycarbonylation) of styrene in the presence of transition metal–ferrocene-based aminophosphine systems, 37
- Penta-coordination**
Penta-coordinated chlorosilanes: reaction chemistry, structure and bonding, 61
- Pentadienyl derivatives**
Vapor-phase and solution-phase UV spectroscopic studies of η^5 -pentadienyl derivatives of iron and ruthenium, 209
- Pentamethylcyclopentadienyl**
 β -Elimination and insertion of CNR in transient pentamethylcyclopentadienyl-imido-tantalum dialkyl complexes. X-ray structure of $[\text{TaCp}^*\{\text{N}(2,6\text{-Me}_2\text{C}_6\text{H}_3)\}(\text{CH}_2=\text{CH}_2)(\text{PMe}_3)]$, 15
- Phosphane complexes**
Einkernige Carbonylmetall-Komplexe des Eisens und Rutheniums, $\text{M}(\text{CO})_n[\text{P}(\text{C}_7\text{H}_7)_3]$ (M = Fe, Ru; $n = 4,3,2$), mit dem mehrzähligen Liganden Tri(1-cyclohepta-2,4,6-trienyl)-phosphan, 227
- Phosphine**
Carbonylation (hydroformylation and hydroalkoxycarbonylation) of styrene in the presence of transition metal–ferrocene-based aminophosphine systems, 37
- Photoelectron spectroscopy**
Gas-phase photoelectron spectroscopic study of (σ -allyl) $\text{Mn}(\text{CO})_5$ and (σ -allyl) $\text{Re}(\text{CO})_5$, 147
- Photoluminescence**
Synthesis, crystal structures and spectroscopic properties of cationic carbyne complexes of molybdenum and tungsten supported by tripodal nitrogen, phosphorus and sulphur donor ligands, 191
- Platinum**
Carbonylation (hydroformylation and hydroalkoxycarbonylation) of styrene in the presence of transition metal–ferrocene-based aminophosphine systems, 37
- Platinum complexes**
Effects of chlorine substituents upon the formation, reactivity and electrochemical properties of platinum(II) and platinum(IV) metallacycles, 179
- Quinones**
Oxidation of $\text{Ru}(\text{dppe})(\text{CO})_3$ with *o*- and *p*-quinones. Crystal structure of $\text{Ru}[\text{C}(\text{O})\text{OC}_6\text{H}_2(\text{C}_4\text{H}_9)_2\text{O}](\text{dppe})(\text{CO})_2$, 1
- Radical coupling**
Redox disproportionation and radical coupling products of formyl(pentamethyl)cobaltocene, 219
- Reactivity**
Syntheses and reactions of Saltren–Group 13 complexes, 87
- Rhenium**
Gas-phase photoelectron spectroscopic study of (σ -allyl) $\text{Mn}(\text{CO})_5$ and (σ -allyl) $\text{Re}(\text{CO})_5$, 147
- Ruthenium**
Einkernige Carbonylmetall-Komplexe des Eisens und Rutheniums, $\text{M}(\text{CO})_n[\text{P}(\text{C}_7\text{H}_7)_3]$ (M = Fe, Ru; $n = 4,3,2$), mit dem mehrzähligen Liganden Tri(1-cyclohepta-2,4,6-trienyl)-phosphan, 227

- Further investigations on C–C bond formation at the diruthenium aminocarbene complexes $[\text{Ru}_2\{\mu\text{-CN}(\text{Me})\text{R}\}(\mu\text{-CO})(\text{CO})_2\text{-}(\text{Cp})_2]\text{SO}_3\text{CF}_3$ (R = Me, CH_2Ph) and molecular structure of $[\text{Ru}_2(\mu\text{-CNMe}_2)(\mu\text{-CO})(\text{COPh})(\text{CO})(\text{Cp})_2]$, 153
- Optically active transition metal complexes. Part 115. Synthesis, crystal structure and properties of chiral $(\eta^5\text{-C}_5\text{H}_5)\text{Ru}$ complexes with pyrrolecarbaldiminato and salicylaldiminato ligands, 173
- Organometallic complexes for nonlinear optics. 15. Molecular quadratic hyperpolarizabilities of *trans*-bis{bis(diphenylphosphino)methane}ruthenium σ -aryl- and σ -pyridylacetylides: X-ray crystal structure of *trans*- $[\text{Ru}(\text{C}=\text{CC}_5\text{H}_3\text{N}-5\text{-NO}_2)\text{Cl}(\text{dppm})_2]$, 137
- Vapor-phase and solution-phase UV spectroscopic studies of η^5 -pentadienyl derivatives of iron and ruthenium, 209
- Ruthenium clusters
- Novel behaviour and reactivity in 1,1'-bis(diphenylphosphino)ferrocene and 1,1'-bis(diphenylphosphino)cobaltocene cluster derivatives, 113
- Rydberg transitions
- Vapor-phase and solution-phase UV spectroscopic studies of η^5 -pentadienyl derivatives of iron and ruthenium, 209
- Saltren
- Syntheses and reactions of Saltren–Group 13 complexes, 87
- Silacyclopentene
- Reactions of 1,1-dichloro-, 1-chloro-1-phenyl- and 1-chloro-1-methylsilacyclopent-3-ene with $\text{Na}[\text{Cp}(\text{CO})_2\text{Fe}]$. X-ray diffraction study of the 1-(dicarbonylcyclopentadienylferrio)-1-[4-(dicarbonylcyclopentadienylferrio)but-1-oxy]-silacyclopent-3-ene resulting from insertion of an opened THF molecule into a Si–Fe bond, 53
- Silver(I)
- Metallorganische Verbindungen des Kupfers und Silbers XV. Synthese und Struktur von Alkin-Silber(I)-Komplexen des Typs $[\text{AgX}(\eta^2\text{-Cycloalkin})]$ (X = NO_3 , NO_2 , CN, BF_4 , OSO_2CF_3 , CH_3COO , CF_3COO , Hexafluoracetylacetonat; Cycloalkin = 3,3,6,6 Tetramethyl-1-thia-4-cycloheptin und 3,3,6,6-Tetramethyl-1-thia-4-cycloheptin-1,1-dioxid), 235
- Structure
- A novel bonding mode of tetrazolate ligand to a metal: synthesis and structural characterization of 5-phenyltetrazolate organolanthanide complexes: $\{[(\text{C}_5\text{H}_4\text{Me})(\text{C}_5\text{H}_5)\text{LnTz}]_2\}$ $\{[(\text{C}_5\text{H}_4\text{Me})_2\text{LnTz}]_2\}$ (Ln = Dy, Gd) and $\{[(\text{C}_5\text{H}_4\text{Me})_2\text{-LnTz}]_2\}$ (Ln = Yb, Er), 101
- Substitution
- The effect of CO on the reaction of (tributyltin)lithium with alkyl and aryl bromides, 31
- Sulfonylcarbamates
- Synthesis and characterization of novel derivatives of *N*-(ferrocenesulfonyl)carbamic acid. X-ray structure determination of ferrocenesulfonamide and *N*-(ferrocenesulfonyl)-*N'*-butylurea, 81
- Sulfonylureas
- Synthesis and characterization of novel derivatives of *N*-(ferrocenesulfonyl)carbamic acid. X-ray structure determination of ferrocenesulfonamide and *N*-(ferrocenesulfonyl)-*N'*-butylurea, 81
- Synthesis, Reaction behavior
- Penta-coordinated chlorosilanes: reaction chemistry, structure and bonding, 61
- Systematic syntheses
- Systematic syntheses of $[\text{Hg}\{\text{M}(\text{CO})_4\}_2]^{2-}$, $[\text{Hg}\{\text{M}(\text{CO})_4\}]_x$ (M = Fe, Ru, Os), and structures of $[\text{Hg}\{\text{M}(\text{CO})_4\}_2]^{2-}$ (M = Ru, Os), 23
- Tantalum
- β -Elimination and insertion of CNR in transient pentamethylcyclopentadienyl-imido-tantalum dialkyl complexes. X-ray structure of $[\text{TaCp}^*\{\text{N}(2,6\text{-Me}_2\text{C}_6\text{H}_3)\}(\text{CH}_2=\text{CH}_2)(\text{PMe}_3)]$, 15
- Tetrazolate
- A novel bonding mode of tetrazolate ligand to a metal: synthesis and structural characterization of 5-phenyltetrazolate organolanthanide complexes: $\{[(\text{C}_5\text{H}_4\text{Me})(\text{C}_5\text{H}_5)\text{LnTz}]_2\}$ $\{[(\text{C}_5\text{H}_4\text{Me})_2\text{LnTz}]_2\}$ (Ln = Dy, Gd) and $\{[(\text{C}_5\text{H}_4\text{Me})_2\text{-LnTz}]_2\}$ (Ln = Yb, Er), 101
- Thiocarbonyl complex
- Reaction of $\text{Fe}(\text{CO})_2(\eta^2\text{-CS}_2)\{\text{P}(\text{OR})_3\}_2$ with phosphines: desulphurization versus substitution. Crystal structures of $\text{Fe}(\text{CO})_2(\text{CS})\{\text{P}(\text{OPh})_3\}_2$ and $\text{Fe}(\text{CO})_3\{\text{P}(\text{OPh})_3\}_2$, 201
- Tin
- The effect of CO on the reaction of (tributyltin)lithium with alkyl and aryl bromides, 31
- Titanium complexes
- Regioselective formation of [2-(η^5 -cyclopentadienyl)-2-fluorenylpropane]-titanium complexes: precursors, synthesis, structure and reactivity, 7
- Tripodal ligands
- Synthesis, crystal structures and spectroscopic properties of cationic carbene complexes of molybdenum and tungsten supported by tripodal nitrogen, phosphorus and sulphur donor ligands, 191
- Tungsten.
- Synthesis, crystal structures and spectroscopic properties of cationic carbene complexes of molybdenum and tungsten supported by tripodal nitrogen, phosphorus and sulphur donor ligands, 191
- X-ray crystallography
- Einkernige Carbonylmetall-Komplexe des Eisens und Rutheniums, $\text{M}(\text{CO})_n[\text{P}(\text{C}_7\text{H}_7)_3]$ (M = Fe, Ru; $n = 4,3,2$), mit dem mehrzähligen Liganden Tri(1-cyclohepta-2,4,6-trienyl)-phosphan, 227
- X-ray diffraction
- Reactions of 1,1-dichloro-, 1-chloro-1-phenyl- and 1-chloro-1-methylsilacyclopent-3-ene with $\text{Na}[\text{Cp}(\text{CO})_2\text{Fe}]$. X-ray diffraction study of the 1-(dicarbonylcyclopentadienylferrio)-1-[4-(dicarbonylcyclopentadienylferrio)but-1-oxy]-silacyclopent-3-ene resulting from insertion of an opened THF molecule into a Si–Fe bond, 53
- X-ray structure
- Metallorganische Verbindungen des Kupfers und Silbers XV. Synthese und Struktur von Alkin-Silber(I)-Komplexen des Typs $[\text{AgX}(\eta^2\text{-Cycloalkin})]$ (X = NO_3 , NO_2 , CN, BF_4 , OSO_2CF_3 , CH_3COO , CF_3COO , Hexafluoracetylacetonat; Cycloalkin = 3,3,6,6 Tetramethyl-1-thia-4-cycloheptin und 3,3,6,6-Tetramethyl-1-thia-4-cycloheptin-1,1-dioxid), 235
- Redox disproportionation and radical coupling products of formyl(pentamethyl)cobaltocene, 219
- Synthesis and characterization of novel derivatives of *N*-(ferrocenesulfonyl)carbamic acid. X-ray structure determination of ferrocenesulfonamide and *N*-(ferrocenesulfonyl)-*N'*-butylurea, 81
- X-ray structure analysis
- Structure and electrochemical behavior of alkylidene-bridged metalladithiolene complexes (metals: cobalt and rhodium): bond cleavage of alkylidene moieties by electrochemical redox reactions, 161
- Ytterbium
- A novel bonding mode of tetrazolate ligand to a metal: synthesis and structural characterization of 5-phenyltetrazolate organolanthanide complexes: $\{[(\text{C}_5\text{H}_4\text{Me})(\text{C}_5\text{H}_5)\text{LnTz}]_2\}$ $\{[(\text{C}_5\text{H}_4\text{Me})_2\text{LnTz}]_2\}$ (Ln = Dy, Gd) and $\{[(\text{C}_5\text{H}_4\text{Me})_2\text{-LnTz}]_2\}$ (Ln = Yb, Er), 101