

## Subject index of Volume 559

### Ab initio

Solvent effects and molecular rearrangements during the reaction of Hauser bases with enolisable ketones: structural characterization of  $[\{\text{Bu}^t\text{C}(\text{=CH}_2)\text{OMgBr} \cdot \text{HMPA}\}_2]$  and  $[\text{MgBr}_2 \cdot (\text{HMPA})_2]$ , 173

### Ab initio calculation

Modification of the electronic structure of silole by the substituents on the ring silicon, 73

### Absorption spectra

Electronic spectrum and photoreactivity of dichloro(1,5-cyclooctadiene)-palladium(II), 223

### Actinides

Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente XLVI: (COT)Ln<sup>III</sup>(I)(THF)<sub>3</sub>-Komplexe—Modellverbindungen für die experimentelle Aufklärung der Elektronenstrukturen von Halbsandwich-Komplexen der Stöchiometrie (COT)An<sup>IV</sup>(I)<sub>2</sub>(THF)<sub>2</sub>, 209

### ansa-Metallocene

rac-[Ethylenebis(2-(thexyldimethylsiloxy)indenyl)]zirconium dichloride: synthesis, molecular structure and olefin polymerization catalysis, 65

### ansa-Zirconocene

Synthesis, structure, and catalytic properties of ansa-zirconocenes, Me<sub>2</sub>Si(RInd)<sub>2</sub>ZrCl<sub>2</sub> (R = 2-*p*- or 3-*p*-tolyl), 149

### (arene)chromium

Reduction of tricarbonyl( $\eta^6$ -Indole)chromium(0) complexes, 131

### Arene-phosphine

Synthesis and structure of a chelating arene-ruthenium complex  $[\text{RuCl}_2(\text{PPh}_2(\text{CH}_2)_3-\eta^6\text{-C}_6\text{H}_5)]$ , 141

### Arene thiolato

Mononuclear  $\eta^8$ -cyclooctatetraenyl(thiolato)samarium(III) complexes ( $\eta^8\text{-C}_8\text{H}_8$ )Sm(SR)(hmpa)<sub>2</sub> (R = 2,4,6-triisopropylphenyl and 2-pyridyl); HMPA = hexamethylphosphoric triamide) derived from metallic samarium, diaryl disulfide, and 1,3,5,7-cyclooctatetraene in the presence of HMPA, 197

### Azides

Synthesis, structural characterization and semiempirical calculations of the ruthenium azide complex  $[\text{Ru}(\text{tpy})(\text{PPh}_3)_2(\text{N}_3)][\text{ClO}_4]$ , 165

### Bridging ability

Solvent effects and molecular rearrangements during the reaction of Hauser bases with enolisable ketones: structural characterization of  $[\{\text{Bu}^t\text{C}(\text{=CH}_2)\text{OMgBr} \cdot \text{HMPA}\}_2]$  and  $[\text{MgBr}_2 \cdot (\text{HMPA})_2]$ , 173

### Carbocation

Mutual *Z/E*-isomerization of ferrocenylmethylene- and arylidene-substituted carbo- and heterocycles, 43

### Carbonyl

Triosmium clusters containing thiazolide ligand: crystal structures of  $[(\mu\text{-H})\text{Os}_3(\text{CO})_{10}(\mu\text{-}3,4\text{-}\eta^2\text{-HC=NC=CHS})]$  and  $[(\mu\text{-H})\text{Os}_3(\text{CO})_9(\mu\text{-}3,4\text{-}\eta^2\text{-HC=NC=CHS})(\text{PPh}_3)]$ , 81

### Catalytic activity

Organometallic compounds of the lanthanides. CXXIII. Lanthanide bent-sandwich complexes with the bulky tetramethyl-*iso*-propylcyclopentadienyl ligand—synthesis, structures and catalytic activity for the hydrosilylation of alkenes/alkynes, 181

### Charge transfer

Photo-oxidation of bis[1,2-bis(diphenylphosphino)ferrocene]-palladium(0) in CCl<sub>4</sub> induced by ferrocene to solvent charge transfer excitation, 215

### Chiral

Synthesis, characterization and reaction of the cluster complexes containing tetrahedral core MRuCoSe. The single crystal X-ray structures of the clusters RuCoMo(CO)<sub>8</sub>( $\mu_3$ -Se)C<sub>5</sub>H<sub>4</sub>C(O)R [R = CH<sub>3</sub>, C<sub>6</sub>H<sub>4</sub>C(O)OCH<sub>3</sub>], 157

### Cleavage

Metal-metal bond cleavage in the trinuclear clusters M<sub>3</sub>(CO)<sub>12</sub>-*n*(Ph<sub>2</sub>Ppy)<sub>*n*</sub> (M = Ru, *n* = 3; Os, *n* = 1; Ph<sub>2</sub>Ppy = 2-(diphenylphosphino)pyridine) by Lewis acids, 31

### Cluster

[Cp\*FeP<sub>6</sub>MoCp\*]: A dinuclear complex with a P<sub>4</sub> and a P<sub>2</sub> ligand, 219

### Cluster complex

Synthesis, characterization and reaction of the cluster complexes containing tetrahedral core MRuCoSe. The single crystal X-ray structures of the clusters RuCoMo(CO)<sub>8</sub>( $\mu_3$ -Se)C<sub>5</sub>H<sub>4</sub>C(O)R [R = CH<sub>3</sub>, C<sub>6</sub>H<sub>4</sub>C(O)OCH<sub>3</sub>], 157

### Complex catalysis

Hydrosilylation of unsaturated (hetero)aromatic aldehydes and related compounds catalyzed by transition metal complexes, 123

### $\sigma^*$ - $\pi^*$ Conjugation

Modification of the electronic structure of silole by the substituents on the ring silicon, 73

### Copper

Transition-metal Schiff-base complexes as ligands in tin chemistry. Part 7. Reactions of organotin(IV) Lewis acids with  $[\text{M}(\text{L})_2]$  [M = Ni, Cu and Zn; H<sub>2</sub>L = *N,N'*-bis(3-methoxysalicylidene)benzene-1,3-diamine and its -1,4-diamine analog], 55

### Crystal field parameters

Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente XLVI: (COT)Ln<sup>III</sup>(I)(THF)<sub>3</sub>-Komplexe—Modellverbindungen für die experimentelle Aufklärung der Elektronenstrukturen von Halbsandwich-Komplexen der Stöchiometrie (COT)An<sup>IV</sup>(I)<sub>2</sub>(THF)<sub>2</sub>, 209

### Crystal structure

Organoplatinum compounds VII: Trimethylplatinum fluoride  $[(\text{CH}_3)_3\text{PtF}]_4$ , the missing link in organoplatinum cluster chemistry: its synthesis, crystal structure and a comparison to the crystal structure of  $[(\text{CH}_3)_3\text{PtOH}]_4$ , 191

Organoplatinum compounds: VI. Trimethylplatinum thiomethylate and trimethylplatinum iodide. The crystal structures of  $[(\text{CH}_3)_3\text{PtS}(\text{CH}_3)]_4$  and  $[(\text{CH}_3)_3\text{PtI}]_4 \cdot 0.5\text{CH}_3\text{I}$ , 203

- Solvent effects and molecular rearrangements during the reaction of Hauser bases with enolisable ketones: structural characterization of  $[\{\text{Bu}^t\text{C}(\text{=CH}_2)\text{OMgBr} \cdot \text{HMPA}\}_2]$  and  $[\text{MgBr}_2 \cdot (\text{HMPA})_2]$ , 173
- Synthesis, characterization and reaction of the cluster complexes containing tetrahedral core MRuCoSe. The single crystal X-ray structures of the clusters  $\text{RuCoMo}(\text{CO})_8(\mu_3\text{-Se})\text{C}_5\text{H}_4\text{C}(\text{O})\text{R}$  [ $\text{R} = \text{CH}_3$ ,  $\text{C}_6\text{H}_4\text{C}(\text{O})\text{OCH}_3$ ], 157
- Synthesis, structure, and catalytic properties of *ansa*-zirconocenes,  $\text{Me}_2\text{Si}(\text{RInd})_2\text{ZrCl}_2$  ( $\text{R} = 2\text{-}p\text{-}$  or  $3\text{-}p\text{-}$ tolyl), 149
- Triosmium clusters containing thiazolide ligand: crystal structures of  $[(\mu\text{-H})\text{Os}_3(\text{CO})_{10}(\mu\text{-}3,4\text{-}\eta^2\text{-HC=NC=CHS})]$  and  $[(\mu\text{-H})\text{Os}_3(\text{CO})_9(\mu\text{-}3,4\text{-}\eta^2\text{-HC=NC=CHS})(\text{PPh}_3)]$ , 81
- Cyclooctatetraenyl ligand  
Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente XLVI:  $(\text{COT})\text{Ln}^{\text{III}}(\text{I})(\text{THF})_3$ -Komplexe—Modellverbindungen für die experimentelle Aufklärung der Elektronenstrukturen von Halbsandwich-Komplexen der Stöchiometrie  $(\text{COT})\text{An}^{\text{IV}}(\text{I})_2(\text{THF})_2$ , 209
- Cyclopentadienyl  
Transition metal complexes of 2-cyclopentadienyl-2-indenylpropane, 107
- Cyclopentadienylnickel  
Polymerization of aryl isocyanides by cyclopentadienylnickel-alkynyl complexes, 91
- Cyclopropene  
Formation of acetylenic compounds and ring transformations of 3-alkyl-3-ferrocenylcyclopropenes in the reaction with 1,3-diphenylisobenzofuran, 1
- Cyclooctatetraene  
Mononuclear  $\eta^8$ -cyclooctatetraenyl(thiolato)samarium(III) complexes ( $\eta^8\text{-C}_8\text{H}_8$ ) $\text{Sm}(\text{SR})(\text{hmpa})_2$  ( $\text{R} = 2,4,6\text{-triisopropylphenyl}$  and  $2\text{-pyridyl}$ ; HMPA = hexamethylphosphoric triamide) derived from metallic samarium, diaryl disulfide, and 1,3,5,7-cyclooctatetraene in the presence of HMPA, 197
- Diastereomerization  
Synthesis, structure, and catalytic properties of *ansa*-zirconocenes,  $\text{Me}_2\text{Si}(\text{RInd})_2\text{ZrCl}_2$  ( $\text{R} = 2\text{-}p\text{-}$  or  $3\text{-}p\text{-}$ tolyl), 149
- Diimines  
Reaction of  $[\text{Os}_3(\text{CO})_{10}(\text{MeCN})_2]$  with 2,3-bis(2-pyridyl)pyrazine and pyrazine. Synthesis, characterization and electrochemical behavior of 1:1 and 1:2 ligand:cluster complexes, 37
- Disilane  
Photochemical functionalizations of  $\text{C}_{60}$  with phenylpolysilanes, 11
- Disulfide  
Mononuclear  $\eta^8$ -cyclooctatetraenyl(thiolato)samarium(III) complexes ( $\eta^8\text{-C}_8\text{H}_8$ ) $\text{Sm}(\text{SR})(\text{hmpa})_2$  ( $\text{R} = 2,4,6\text{-triisopropylphenyl}$  and  $2\text{-pyridyl}$ ; HMPA = hexamethylphosphoric triamide) derived from metallic samarium, diaryl disulfide, and 1,3,5,7-cyclooctatetraene in the presence of HMPA, 197
- Dithioether  
Rhodium cationic complexes using dithioethers as chiral ligands. Application in styrene hydroformylation, 23
- Electrochemistry  
Reaction of  $[\text{Os}_3(\text{CO})_{10}(\text{MeCN})_2]$  with 2,3-bis(2-pyridyl)pyrazine and pyrazine. Synthesis, characterization and electrochemical behavior of 1:1 and 1:2 ligand:cluster complexes, 37
- Synthesis and structure of a chelating arene-ruthenium complex  $[\text{RuCl}_2(\text{PPh}_2(\text{CH}_2)_3\text{-}\eta^6\text{-C}_6\text{H}_5)]$ , 141
- Equilibria  
Solvent effects and molecular rearrangements during the reaction of Hauser bases with enolisable ketones: structural characterization of  $[\{\text{Bu}^t\text{C}(\text{=CH}_2)\text{OMgBr} \cdot \text{HMPA}\}_2]$  and  $[\text{MgBr}_2 \cdot (\text{HMPA})_2]$ , 173
- Ethene polymerization  
Synthesis, structure and properties of divalent bis(di-*tert*-butylcyclopentadienyl)ytterbium complexes with diethyl ether and 1,2-dimethoxyethane, 97
- Ferrocene  
Formation of acetylenic compounds and ring transformations of 3-alkyl-3-ferrocenylcyclopropenes in the reaction with 1,3-diphenylisobenzofuran, 1
- Mutual *Z*/*E*-isomerization of ferrocenylmethylene- and arylidene-substituted carbo- and heterocycles, 43
- Ferrocene complexes  
Photo-oxidation of bis[1,2-bis(diphenylphosphino)ferrocene]-palladium(0) in  $\text{CCl}_4$  induced by ferrocene to solvent charge transfer excitation, 215
- Fullerene  
Photochemical functionalizations of  $\text{C}_{60}$  with phenylpolysilanes, 11
- (Hetero)aromatic aldehydes  
Hydrosilylation of unsaturated (hetero)aromatic aldehydes and related compounds catalyzed by transition metal complexes, 123
- Hydroformylation  
Rhodium cationic complexes using dithioethers as chiral ligands. Application in styrene hydroformylation, 23
- Hydrosilylation  
Hydrosilylation of unsaturated (hetero)aromatic aldehydes and related compounds catalyzed by transition metal complexes, 123
- Organometallic compounds of the lanthanides. CXXIII. Lanthanide bent-sandwich complexes with the bulky tetramethyl-*iso*-propylcyclopentadienyl ligand—synthesis, structures and catalytic activity for the hydrosilylation of alkenes/alkynes, 181
- Indenyl  
*rac*-[Ethylenebis(2-(thexyldimethylsiloxy)indenyl)]zirconium dichloride: synthesis, molecular structure and olefin polymerization catalysis, 65
- Indole  
Reduction of tricarbonyl( $\eta^6$ -Indole)chromium(0) complexes, 131
- Indoline  
Reduction of tricarbonyl( $\eta^6$ -Indole)chromium(0) complexes, 131
- Iron  
[Cp\*FeP<sub>6</sub>MoCp\*]: A dinuclear complex with a P<sub>4</sub> and a P<sub>2</sub> ligand, 219
- Formation of acetylenic compounds and ring transformations of 3-alkyl-3-ferrocenylcyclopropenes in the reaction with 1,3-diphenylisobenzofuran, 1
- Isocyanides  
Polymerization of aryl isocyanides by cyclopentadienylnickel-alkynyl complexes, 91
- Lanthanides  
Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente XLVI:  $(\text{COT})\text{Ln}^{\text{III}}(\text{I})(\text{THF})_3$ -Komplexe—Modellverbindungen für die experimentelle Aufklärung der Elektronenstrukturen von Halbsandwich-Komplexen der Stöchiometrie  $(\text{COT})\text{An}^{\text{IV}}(\text{I})_2(\text{THF})_2$ , 209
- Lanthanidocene  
Organometallic compounds of the lanthanides. CXXIII. Lanthanide bent-sandwich complexes with the bulky tetramethyl-*iso*-propylcyclopentadienyl ligand—synthesis, structures and catalytic activity for the hydrosilylation of alkenes/alkynes, 181

## Lewis acid

Metal–metal bond cleavage in the trinuclear clusters  $M_3(CO)_{12}n(Ph_2Ppy)_n$  ( $M = Ru, n = 3$ ;  $Os, n = 1$ ;  $Ph_2Ppy = 2$ -diphenylphosphino)pyridine) by Lewis acids, 31

## Magnesium enolate

Solvent effects and molecular rearrangements during the reaction of Hauser bases with enolisable ketones: structural characterization of  $\{[Bu^tC(=CH_2)OMgBr \cdot HMPA]_2\}$  and  $[MgBr_2 \cdot (HMPA)_2]$ , 173

## Magnesium halide

Solvent effects and molecular rearrangements during the reaction of Hauser bases with enolisable ketones: structural characterization of  $\{[Bu^tC(=CH_2)OMgBr \cdot HMPA]_2\}$  and  $[MgBr_2 \cdot (HMPA)_2]$ , 173

## Metal center

Transition metal complexes of 2-cyclopentadienyl-2-indenylpropane, 107

## Metallocenes

Synthesis, structure and properties of divalent bis(di-*tert*-butylcyclopentadienyl)ytterbium complexes with diethyl ether and 1,2-dimethoxyethane, 97

## Metal–metal bond

Metal–metal bond cleavage in the trinuclear clusters  $M_3(CO)_{12}n(Ph_2Ppy)_n$  ( $M = Ru, n = 3$ ;  $Os, n = 1$ ;  $Ph_2Ppy = 2$ -diphenylphosphino)pyridine) by Lewis acids, 31

## MO calculations

Solvent effects and molecular rearrangements during the reaction of Hauser bases with enolisable ketones: structural characterization of  $\{[Bu^tC(=CH_2)OMgBr \cdot HMPA]_2\}$  and  $[MgBr_2 \cdot (HMPA)_2]$ , 173

## Molybdenum

$[Cp^*FeP_6MoCp^*]$ : A dinuclear complex with a  $P_4$  and a  $P_2$  ligand, 219

## Mössbauer

Transition-metal Schiff-base complexes as ligands in tin chemistry. Part 7. Reactions of organotin(IV) Lewis acids with  $[M(L)]_2$  [ $M = Ni, Cu$  and  $Zn$ ;  $H_2L = N, N'$ -bis(3-methoxysalicylidene)benzene-1,3-diamine and its -1,4-diamine analog], 55

## Multiple insertion

Polymerization of aryl isocyanides by cyclopentadienylnickel–alkynyl complexes, 91

## Nickel

Transition-metal Schiff-base complexes as ligands in tin chemistry. Part 7. Reactions of organotin(IV) Lewis acids with  $[M(L)]_2$  [ $M = Ni, Cu$  and  $Zn$ ;  $H_2L = N, N'$ -bis(3-methoxysalicylidene)benzene-1,3-diamine and its -1,4-diamine analog], 55

## Nickel acetylides

Polymerization of aryl isocyanides by cyclopentadienylnickel–alkynyl complexes, 91

## Olefin polymerization

*rac*-[Ethylenebis(2-(thexyldimethylsiloxy)indenyl)]zirconium dichloride: synthesis, molecular structure and olefin polymerization catalysis, 65

## Oligosilane

Photochemical functionalizations of  $C_{60}$  with phenylpolysilanes, 11

## Optical spectra

Zur Elektronenstruktur metallorganischer Komplexe der f-Elemente XLVI:  $(COT)Ln^{III}(I)(THF)_3$ -Komplexe—Modellverbindungen für die experimentelle Aufklärung der Elektronenstrukturen von Halbsandwich-Komplexen der Stöchiometrie  $(COT)An^{IV}(I)_2(THF)_2$ , 209

## Organoplatinum compounds

Organoplatinum compounds VII: Trimethylplatinum fluoride  $[(CH_3)_3PtF]_4$ , the missing link in organoplatinum cluster chemistry: its synthesis, crystal structure and a comparison to the crystal structure of  $[(CH_3)_3PtOH]_4$ , 191

Organoplatinum compounds: VI. Trimethylplatinum thiomethylate and trimethylplatinum iodide. The crystal structures of  $[(CH_3)_3PtS(CH_3)]_4$  and  $[(CH_3)_3PtI]_4 \cdot 0.5CH_3I$ , 203

## Osmium

Metal–metal bond cleavage in the trinuclear clusters  $M_3(CO)_{12}n(Ph_2Ppy)_n$  ( $M = Ru, n = 3$ ;  $Os, n = 1$ ;  $Ph_2Ppy = 2$ -diphenylphosphino)pyridine) by Lewis acids, 31

Triosmium clusters containing thiazolidine ligand: crystal structures of  $[(\mu-H)Os_3(CO)_{10}(\mu-3,4-\eta^2-HC=NC=CHS)]$  and  $[(\mu-H)Os_3(CO)_9(\mu-3,4-\eta^2-HC=NC=CHS)(PPh_3)]$ , 81

## Palladium complexes

Electronic spectrum and photoreactivity of dichloro(1,5-cyclooctadiene)-palladium(II), 223

Photo-oxidation of bis[1,2-bis(diphenylphosphino)ferrocene]-palladium(0) in  $CCl_4$  induced by ferrocene to solvent charge transfer excitation, 215

## Phosphine

Triosmium clusters containing thiazolidine ligand: crystal structures of  $[(\mu-H)Os_3(CO)_{10}(\mu-3,4-\eta^2-HC=NC=CHS)]$  and  $[(\mu-H)Os_3(CO)_9(\mu-3,4-\eta^2-HC=NC=CHS)(PPh_3)]$ , 81

## Phosphorus

$[Cp^*FeP_6MoCp^*]$ : A dinuclear complex with a  $P_4$  and a  $P_2$  ligand, 219

## Photochemistry

Electronic spectrum and photoreactivity of dichloro(1,5-cyclooctadiene)-palladium(II), 223

Photo-oxidation of bis[1,2-bis(diphenylphosphino)ferrocene]-palladium(0) in  $CCl_4$  induced by ferrocene to solvent charge transfer excitation, 215

## Platinum

Organoplatinum compounds VII: Trimethylplatinum fluoride  $[(CH_3)_3PtF]_4$ , the missing link in organoplatinum cluster chemistry: its synthesis, crystal structure and a comparison to the crystal structure of  $[(CH_3)_3PtOH]_4$ , 191

Organoplatinum compounds: VI. Trimethylplatinum thiomethylate and trimethylplatinum iodide. The crystal structures of  $[(CH_3)_3PtS(CH_3)]_4$  and  $[(CH_3)_3PtI]_4 \cdot 0.5CH_3I$ , 203

## Platinum fluoride

Organoplatinum compounds VII: Trimethylplatinum fluoride  $[(CH_3)_3PtF]_4$ , the missing link in organoplatinum cluster chemistry: its synthesis, crystal structure and a comparison to the crystal structure of  $[(CH_3)_3PtOH]_4$ , 191

## Platinum hydroxide

Organoplatinum compounds VII: Trimethylplatinum fluoride  $[(CH_3)_3PtF]_4$ , the missing link in organoplatinum cluster chemistry: its synthesis, crystal structure and a comparison to the crystal structure of  $[(CH_3)_3PtOH]_4$ , 191

## Platinum iodide

Organoplatinum compounds: VI. Trimethylplatinum thiomethylate and trimethylplatinum iodide. The crystal structures of  $[(CH_3)_3PtS(CH_3)]_4$  and  $[(CH_3)_3PtI]_4 \cdot 0.5CH_3I$ , 203

## Platinum metal group

Organoplatinum compounds VII: Trimethylplatinum fluoride  $[(CH_3)_3PtF]_4$ , the missing link in organoplatinum cluster chemistry: its synthesis, crystal structure and a comparison to the crystal structure of  $[(CH_3)_3PtOH]_4$ , 191

Organoplatinum compounds: VI. Trimethylplatinum thiomethylate and trimethylplatinum iodide. The crystal structures of  $[(CH_3)_3PtS(CH_3)]_4$  and  $[(CH_3)_3PtI]_4 \cdot 0.5CH_3I$ , 203

- Platinum thiolate  
Organoplatinum compounds: VI. Trimethylplatinum thiomethylate and trimethylplatinum iodide. The crystal structures of  $[(\text{CH}_3)_3\text{PtS}(\text{CH}_3)_4]$  and  $[(\text{CH}_3)_3\text{PtI}]_4 \cdot 0.5\text{CH}_3\text{I}$ , 203
- 'P6' ligand  
[Cp\*FeP<sub>6</sub>MoCp\*]: A dinuclear complex with a P<sub>4</sub> and a P<sub>2</sub> ligand, 219
- Polymerization  
Polymerization of aryl isocyanides by cyclopentadienylnickel-alkynyl complexes, 91
- Propylene polymerization  
Synthesis, structure, and catalytic properties of *ansa*-zirconocenes, Me<sub>2</sub>Si(RInd)<sub>2</sub>ZrCl<sub>2</sub> (R = 2-*p*- or 3-*p*-tolyl), 149
- Pyridine-2-thiolato  
Mononuclear  $\eta^8$ -cyclooctatetraenyl(thiolato)samarium(III) complexes ( $\eta^8$ -C<sub>8</sub>H<sub>8</sub>)Sm(SR)(hmpa)<sub>2</sub> (R = 2,4,6-triisopropylphenyl and 2-pyridyl; HMPA = hexamethylphosphoric triamide) derived from metallic samarium, diaryl disulfide, and 1,3,5,7-cyclooctatetraene in the presence of HMPA, 197
- Quinuclidinone  
Mutual *Z*-/*E*-isomerization of ferrocenylmethylene- and arylidene-substituted carbo- and heterocycles, 43
- Raman Spectra  
Synthesis, structural characterization and semiempirical calculations of the ruthenium azide complex [Ru(tpy)(PPh<sub>3</sub>)<sub>2</sub>(N<sub>3</sub>)] [ClO<sub>4</sub>], 165
- Reduction  
Reduction of tricarbonyl( $\eta^6$ -Indole)chromium(0) complexes, 131
- Rhodium  
Rhodium cationic complexes using dithioethers as chiral ligands. Application in styrene hydroformylation, 23
- Rhodium(I)  
Hydrosilylation of unsaturated (hetero)aromatic aldehydes and related compounds catalyzed by transition metal complexes, 123
- Ruthenium  
Metal-metal bond cleavage in the trinuclear clusters M<sub>3</sub>(CO)<sub>12</sub>-*n*(Ph<sub>2</sub>Ppy)<sub>*n*</sub> (M = Ru, *n* = 3; Os, *n* = 1; Ph<sub>2</sub>Ppy = 2-(diphenylphosphino)pyridine) by Lewis acids, 31  
Synthesis and structure of a chelating arene-ruthenium complex [RuCl<sub>2</sub>(PPh<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>- $\eta^6$ -C<sub>6</sub>H<sub>5</sub>)], 141  
Synthesis, structural characterization and semiempirical calculations of the ruthenium azide complex [Ru(tpy)(PPh<sub>3</sub>)<sub>2</sub>(N<sub>3</sub>)] [ClO<sub>4</sub>], 165
- Salicylaldimine  
Transition-metal Schiff-base complexes as ligands in tin chemistry. Part 7. Reactions of organotin(IV) Lewis acids with [M(L)]<sub>2</sub> [M = Ni, Cu and Zn; H<sub>2</sub>L = *N,N'*-bis(3-methoxysalicylidene)benzene-1,3-diamine and its -1,4-diamine analog], 55
- Samarium  
Mononuclear  $\eta^8$ -cyclooctatetraenyl(thiolato)samarium(III) complexes ( $\eta^8$ -C<sub>8</sub>H<sub>8</sub>)Sm(SR)(hmpa)<sub>2</sub> (R = 2,4,6-triisopropylphenyl and 2-pyridyl; HMPA = hexamethylphosphoric triamide) derived from metallic samarium, diaryl disulfide, and 1,3,5,7-cyclooctatetraene in the presence of HMPA, 197
- Silole  
Modification of the electronic structure of silole by the substituents on the ring silicon, 73
- Siloxy  
*rac*-[Ethylenebis(2-(thexyldimethylsiloxy)indenyl)]zirconium dichloride: synthesis, molecular structure and olefin polymerization catalysis, 65
- Sodium cyanoborohydride  
Reduction of tricarbonyl( $\eta^6$ -Indole)chromium(0) complexes, 131
- Solvent effects  
Solvent effects and molecular rearrangements during the reaction of Hauser bases with enolisable ketones: structural characterization of  $[\{\text{Bu}^t\text{C}(\text{=CH}_2)\text{OMgBr} \cdot \text{HMPA}\}_2]$  and  $[\text{MgBr}_2 \cdot (\text{HMPA})_2]$ , 173
- Substituent effect  
Modification of the electronic structure of silole by the substituents on the ring silicon, 73
- Substituted cyclopentadienyls  
Synthesis, structure and properties of divalent bis(di-*tert*-butylcyclopentadienyl)ytterbium complexes with diethyl ether and 1,2-dimethoxyethane, 97
- Substitution  
Triosmium clusters containing thiazolide ligand: crystal structures of  $[(\mu\text{-H})\text{Os}_3(\text{CO})_{10}(\mu\text{-}3,4\text{-}\eta^2\text{-HC=NC=CHS})]$  and  $[(\mu\text{-H})\text{Os}_3(\text{CO})_9(\mu\text{-}3,4\text{-}\eta^2\text{-HC=NC=CHS})(\text{PPh}_3)]$ , 81
- Syntheses  
Reaction of [Os<sub>3</sub>(CO)<sub>10</sub>(MeCN)<sub>2</sub>] with 2,3-bis(2-pyridyl)pyrazine and pyrazine. Synthesis, characterization and electrochemical behavior of 1:1 and 1:2 ligand:cluster complexes, 37
- Thiazolide  
Triosmium clusters containing thiazolide ligand: crystal structures of  $[(\mu\text{-H})\text{Os}_3(\text{CO})_{10}(\mu\text{-}3,4\text{-}\eta^2\text{-HC=NC=CHS})]$  and  $[(\mu\text{-H})\text{Os}_3(\text{CO})_9(\mu\text{-}3,4\text{-}\eta^2\text{-HC=NC=CHS})(\text{PPh}_3)]$ , 81
- Three-membered ring opening  
Formation of acetylenic compounds and ring transformations of 3-alkyl-3-ferrocenylcyclopropenes in the reaction with 1,3-diphenylisobenzofuran, 1
- Tin  
Transition-metal Schiff-base complexes as ligands in tin chemistry. Part 7. Reactions of organotin(IV) Lewis acids with [M(L)]<sub>2</sub> [M = Ni, Cu and Zn; H<sub>2</sub>L = *N,N'*-bis(3-methoxysalicylidene)benzene-1,3-diamine and its -1,4-diamine analog], 55
- Tolyindene  
Synthesis, structure, and catalytic properties of *ansa*-zirconocenes, Me<sub>2</sub>Si(RInd)<sub>2</sub>ZrCl<sub>2</sub> (R = 2-*p*- or 3-*p*-tolyl), 149
- Transition metal  
Synthesis, characterization and reaction of the cluster complexes containing tetrahedral core MRuCoSe. The single crystal X-ray structures of the clusters RuCoMo(CO)<sub>8</sub>( $\mu_3$ -Se)C<sub>5</sub>H<sub>4</sub>C(O)R [R = CH<sub>3</sub>, C<sub>6</sub>H<sub>4</sub>C(O)OCH<sub>3</sub>], 157  
Transition metal complexes of 2-cyclopentadienyl-2-indenylpropane, 107
- Triosmium clusters  
Reaction of [Os<sub>3</sub>(CO)<sub>10</sub>(MeCN)<sub>2</sub>] with 2,3-bis(2-pyridyl)pyrazine and pyrazine. Synthesis, characterization and electrochemical behavior of 1:1 and 1:2 ligand:cluster complexes, 37
- UV absorption spectra  
Modification of the electronic structure of silole by the substituents on the ring silicon, 73
- X-ray analysis  
Formation of acetylenic compounds and ring transformations of 3-alkyl-3-ferrocenylcyclopropenes in the reaction with 1,3-diphenylisobenzofuran, 1
- Ytterbium( + 2)  
Synthesis, structure and properties of divalent bis(di-*tert*-butylcyclopentadienyl)ytterbium complexes with diethyl ether and 1,2-dimethoxyethane, 97
- Z*-/*E*-isomerization  
Mutual *Z*-/*E*-isomerization of ferrocenylmethylene- and arylidene-substituted carbo- and heterocycles, 43
- ZINDO Calculations  
Synthesis, structural characterization and semiempirical calculations of the ruthenium azide complex [Ru(tpy)(PPh<sub>3</sub>)<sub>2</sub>(N<sub>3</sub>)] [ClO<sub>4</sub>], 165
- Zirconium  
*rac*-[Ethylenebis(2-(thexyldimethylsiloxy)indenyl)]zirconium dichloride: synthesis, molecular structure and olefin polymerization catalysis, 65
- Zwitter-ion  
Formation of acetylenic compounds and ring transformations of 3-alkyl-3-ferrocenylcyclopropenes in the reaction with 1,3-diphenylisobenzofuran, 1