

Subject index of Volume 568

Alane complexes

Polymerization of methyl methacrylate with alane complexes of bivalent lanthanidocenes, 33

Allyl

η^6 -Arene–cobalt(I) complexes, 205

Allylidene derivatives

Ligand additivity in 47-electron clusters. Electrochemistry of (μ -H) $Ru_3(\mu_3\eta^3-XCCCR)(CO)_{9-n}(PPh_3)_n$ and reactions with electrophiles: one-electron oxidation and adduct formation, 63

Aluminium

bis-(di-*tert*-Butylcyclopentadienyl)ytterbium(II): reactions with triisobutylaluminum and aluminium deuteride. Crystal structures of the complex (η^5 -1,3- \prime $Bu_2C_5H_3)_3Yb$ and the complex (η^5 -1,3- \prime $Bu_2C_5H_3)_2Yb(\mu$ -D) $_2Al(\eta^2$ -1,3- \prime $Bu_2C_5H_3)$ with allyl \rightarrow Al extra bonding, 113

ansa-bis(indenyl)Titanium dichloride

Synthesis and structure of [1,2-bis(1-indenyl)benzene]titanium and zirconium dichlorides, 41

ansa-bis(indenyl)Zirconium dichloride

Synthesis and structure of [1,2-bis(1-indenyl)benzene]titanium and zirconium dichlorides, 41

ansa-Metallocene

Synthesis and structure of [1,2-bis(1-indenyl)benzene]titanium and zirconium dichlorides, 41

ansa-Metallocene complexes

PPh-bridged metallocene complexes of the type ($C_{13}H_8-PPh-C_{13}H_8$) MCl_2 ($M = Zr, Hf$), 127

Arene

η^6 -Arene–cobalt(I) complexes, 205

Arene–ruthenium complexes

Synthesis, characterization, reactivity and structure of some mono and binuclear (η^6 -*p*-cymene)ruthenium(II) complexes, 13

Asymmetric

Synthesis, characterization of (*R*)-2,2'-diamino-1,1'-binaphthyl mono-sulfonamide and its ruthenium complex and evaluation of the catalytic properties in transfer hydrogenation reactions, 77

Auration

Gold(III) derivatives with C(4)-aurated 1-phenylpyrazole, 225

Azo-phosphines

Azo-phosphine containing complexes of Group 6 metal carbonyls: crystal and molecular structure of [$Mo(CO)_5\{1-(4-ethylphenylazo)-6-diphenylphosphino-naphthalen-2-ol\}$], 279

Benzene

η^6 -Arene–cobalt(I) complexes, 205

Binaphthyl

Synthesis, characterization of (*R*)-2,2'-diamino-1,1'-binaphthyl mono-sulfonamide and its ruthenium complex and evaluation of the catalytic properties in transfer hydrogenation reactions, 77

Binuclear complexes

bis-(di-*tert*-Butylcyclopentadienyl)ytterbium(II): reactions with triisobutylaluminum and aluminium deuteride. Crystal structures of the complex (η^5 -1,3- \prime $Bu_2C_5H_3)_3Yb$ and the complex (η^5 -1,3- \prime $Bu_2C_5H_3)_2Yb(\mu$ -D) $_2Al(\eta^2$ -1,3- \prime $Bu_2C_5H_3)$ with allyl \rightarrow Al extra bonding, 113

Bivalent ytterbocenes

Polymerization of methyl methacrylate with alane complexes of bivalent lanthanidocenes, 33

Boron compounds

Macrocycles incorporating sulphur and *nido*-carborane cages: reactivity towards Rh(III) and Ir(III). Molecular structures of [$Ir(C_5Me_5)Cl(7,8-\mu-(SCH_2CH_2S)-7,8-C_2B_9H_{10})$] and [$Rh(C_5Me_5)$

$\times Cl(7,8-\mu-(S(CH_2CH_2(OCH_2CH_2)_3S)-7,8-C_2B_9H_{10})]$, 149

Bridged ruthenium complexes

Synthesis, characterization, reactivity and structure of some mono and binuclear (η^6 -*p*-cymene)ruthenium(II) complexes, 13

Carbodiimide

(η^5 -Cyclopentadienyl)Fe(CO) $_{2-}$ -complexes of sulfonamide anions. Acylation of the amino group in the sulfanilamide complex and its relevance to the protein labelling, 171

Carbonyl

Phosphine derivatives of the 4-methylquinoline triosmium cluster [$(\mu$ -H) $Os_3(CO)_{10}\{\mu$ -1,2- η^2 - $C_9H_5(CH_3)N\}$]: crystal structures of two isomeric compounds [$(\mu$ -H) $Os_3(CO)_9\{\mu$ -1,2- η^2 - $C_9H_5(CH_3)N\}(PPh_3)$] and [$(\mu$ -H) $Os_3(CO)_9\{\mu$ -1,2- η^2 - $C_9H_5(CH_3)N\}\{P(OMe)_3\}$], 133

Study on the reactivity of $RuCo_2(\mu_3-S)(CO)_6$: synthesis and characterization of the cluster complexes containing the tetrahedral core MRuCoS ($M=Mo, W$) and the two tetrahedral core MRuCoS clusters, 157

Triphenylstibine substituted manganese and rhenium carbonyls: synthesis and multinuclear NMR spectroscopic studies. X-ray crystal structures of *ax*-[$Mn_2(CO)_9(SbPh_3)$], [$Mn(CO)_5(SbPh_3)[CF_3SO_3]$] and *fac*-[$Re(CO)_5Cl(SbPh_3)_2$], 213

Carbonyl complexes

Electrochemical study of methylfulvalene and methylcyclopentadiene molybdenum complexes, 185

Catalysis

C_1 -Bridged fluorenylidene cyclopentadienyliidene complexes of the type ($C_{13}H_8-CR^1R^2-C_5H_3R$) $ZrCl_2$ ($R^1, R^2 =$ alkyl, phenyl, alkenyl; $R = H$, alkyl, alkenyl, substituted silyl) as catalyst precursors for the polymerization of ethylene and propylene, 87

PPh-bridged metallocene complexes of the type ($C_{13}H_8-PPh-C_{13}H_8$) MCl_2 ($M = Zr, Hf$), 127

Chalcogenide

Synthesis, characterisation and nonlinear optical properties of tetrahedral clusters $Cp_2Mo_2ME(CO)_7$, ($M = Fe, Ru, Os; E = S, Se$), 197

Charge transfer

Photo-induced ligand exchange reactions of ferrocenylacetylacetone in the presence of pyridine or 4,4'-dipyridyl: Crystal and molecular structure of *trans*-bis(ferrocenylacetylacetoneato)dipyridineiron(II), [Fe(FAnato)₂(Py)₂], 165

Chrome(III)

The determination of stability constants of *N*-acetyl-L-cysteine chrome, nickel, cobalt and iron complexes by potentiometric method, 143

Chromium

Azo-phosphine containing complexes of Group 6 metal carbonyls: crystal and molecular structure of [Mo(CO)₅{1-(4-ethylphenylazo)-6-diphenylphosphino-naphthalen-2-ol}], 279

Cluster

Study on the reactivity of RuCo₂(μ₃-S)(CO)₉: synthesis and characterization of the cluster complexes containing the tetrahedral core MRuCoS (M=Mo, W) and the two tetrahedral core MRuCoS clusters, 157

Cobalt

η⁶-Arene-cobalt(I) complexes, 205

Cobalt(II)

The determination of stability constants of *N*-acetyl-L-cysteine chrome, nickel, cobalt and iron complexes by potentiometric method, 143

Crystal structure

Organolead(IV) polymers [(Me₃Pb)₄M(CN)₆·*n*H₂O] with M = Fe and Ru (0 ≤ *n* ≤ 2): solid-state NMR and vibrational spectroscopy; crystal structure of the dihydrates, 1

Phosphine derivatives of the 4-methylquinoline triosmium cluster [{μ-H}Os₃(CO)₁₀{μ-1,2-η²-C₉H₅(CH₃)N}]: crystal structures of two isomeric compounds [{μ-H}Os₃(CO)₉{μ-1,2-η²-C₉H₅(CH₃)N}(PPh₃)] and [{μ-H}Os₃(CO)₉{μ-1,2-η²-C₉H₅(CH₃)N}{P(OMe)₃}], 133

Study on the reactivity of RuCo₂(μ₃-S)(CO)₉: synthesis and characterization of the cluster complexes containing the tetrahedral core MRuCoS (M=Mo, W) and the two tetrahedral core MRuCoS clusters, 157

C₂-symmetric

Synthesis and structure of [1,2-bis(1-indenyl)benzene]titanium and zirconium dichlorides, 41

Cyanide

Organolead(IV) polymers [(Me₃Pb)₄M(CN)₆·*n*H₂O] with M = Fe and Ru (0 ≤ *n* ≤ 2): solid-state NMR and vibrational spectroscopy; crystal structure of the dihydrates, 1

Cyclic voltammetry

Ligand additivity in 47-electron clusters. Electrochemistry of (μ-H)Ru₃(μ₃-η³-XCCRCR')(CO)_{9-n}(PPh₃)_n and reactions with electrophiles: one-electron oxidation and adduct formation, 63

Cycloaddition

Fünfgliedrige Phosphametallacylenen Cp(OC)-
M-PR₂-C(=S)-N(ME)-C(=O): Darstellung durch [3 + 2]-Cycloaddition der Metalloc-phosphane Cp(OC)₂M-PR₂ (M = Fe, Ru; R = Alkyl, Aryl) mit Methylisothiocyanat: Übergangsmetall-substituierte Phosphane, Arsane und Stibane, LVIII, 241

Zur Reaktivität des sekundären Ferrio-phosphans Cp(OC)₂Fe-P(*t*-Bu)(H) gegenüber Organoisocyanaten und Organoisothiocyanaten: Synthese der Phospha-ferracylenen

Cp(CO)Fe-P(*t*-Bu)[C(X)-N(R)H]-C(X)-N(R)-C(O) (X = O, S, R = Me, Et) durch [3 + 2]-Cycloaddition und Insertion. Übergangsmetall-substituierte Phosphane, Arsane und Stibane, LXI, 247

Cyclopentadienyl

(η⁵-Cyclopentadienyl)Fe(CO)₂-complexes of sulfonamide anions. Acylation of the amino group in the sulfonylamine complex and its relevance to the protein labelling, 171

Electrochemical study of methylfulvalene and methylcyclopentadiene molybdenum complexes, 185

Study on the reactivity of RuCo₂(μ₃-S)(CO)₉: synthesis and characterization of the cluster complexes containing the tetrahedral core MRuCoS (M=Mo, W) and the two tetrahedral core MRuCoS clusters, 157

Dehydropolymerisation

(C₅H₅)₂TiF₂ and (C₅H₅)₂ZrF₂ as catalyst precursors for the dehydropolymerisation of silanes, 253

9,10-Dicyanoanthracene

Chlorinative cleavage of germanium-germanium bonds in perethyloligogermanes initiated by photo-induced electron transfer, 121

Diene

A rapid and convenient method for the formation of (diene)Fe(CO)₃ complexes, 287

Dienyl

η⁶-Arene-cobalt(I) complexes, 205

β-Diketone

Photo-induced ligand exchange reactions of ferrocenylacetylacetone in the presence of pyridine or 4,4'-dipyridyl: Crystal and molecular structure of *trans*-bis(ferrocenylacetylacetoneato)dipyridineiron(II), [Fe(FAnato)₂(Py)₂], 165

Dirhodium(II) tetraacetate

Orthometallation reactions of tris(*p*-methoxyphenyl)phosphine with dirhodium(II) tetraacetate, 177

Electrochemistry

Electrochemical study of methylfulvalene and methylcyclopentadiene molybdenum complexes, 185

Ligand additivity in 47-electron clusters. Electrochemistry of (μ-H)Ru₃(μ₃-η³-XCCRCR')(CO)_{9-n}(PPh₃)_n and reactions with electrophiles: one-electron oxidation and adduct formation, 63

Electrophilic substitution

Preparation of halogeno(pentafluorophenyl)silanes (C₆F₅)_nSiX_{4-n} (X = F, Cl and Br; n = 2, 3) from pentafluorophenyl(phenyl)silanes (C₆F₅)_nSiPh_{4-n}, 233

Ethylene polymerization

Polymerization of ethylene with metallocene/methylaluminoxane catalysts supported on polysiloxane micro gels and silica, 263

Germane

Torsional distortions in trimesitylsilanes and trimesitylgermanes, 21

Gold(III)

Gold(III) derivatives with C(4)-aurated 1-phenylpyrazole, 225

Hafnium

PPh-bridged metallocene complexes of the type (C₁₃H₈-PPh-C₁₃H₈)MCl₂ (M = Zr, Hf), 127

Hydrides

bis(di-*tert*-Butylcyclopentadienyl)ytterbium(II): reactions with triisobutylaluminum and aluminium deuteride. Crystal structures of the complex (η⁵-1,3'-Bu₂C₅H₃)₃Yb and the complex (η⁵-1,3'-Bu₂C₅H₃)₂Yb(μ-D)₂Al(η²-1,3'-Bu₂C₅H₃) with allyl → Al extra bonding, 113

Insertion

Zur Reaktivität des sekundären Ferrio-phosphans Cp(OC)₂Fe-P(*t*-Bu)(H) gegenüber Organoisocyanaten und Organoisothiocyanaten: Synthese der Phospha-ferracylenen Cp(CO)Fe-P(*t*-Bu)[C(X)-N(R)H]-C(X)-N(R)-C(O) (X = O, S, R = Me, Et) durch [3 + 2]-Cycloaddition und Insertion. Übergangsmetall-substituierte Phosphane, Arsane und Stibane, LXI, 247

Iridium compounds

Macrocycles incorporating sulphur and *nido*-carborane cages: reactivity towards Rh(III) and Ir(III). Molecular structures of $[\text{Ir}(\text{C}_5\text{Me}_5)\text{Cl}(7,8\text{-}\mu\text{-}(\text{SCH}_2\text{CH}_2\text{S})\text{-}7,8\text{-C}_2\text{B}_9\text{H}_{10})]$ and $[\text{Rh}(\text{C}_5\text{Me}_5)\text{Cl}(7,8\text{-}\mu\text{-}(\text{S}(\text{CH}_2\text{CH}_2\text{(OCH}_2\text{CH}_2)_3\text{S})\text{-}7,8\text{-C}_2\text{B}_9\text{H}_{10})]$, 149

Iron

A rapid and convenient method for the formation of (diene) $\text{Fe}(\text{CO})_3$ complexes, 287

Organolead(IV) polymers $[(\text{Me}_3\text{Pb})_4\text{M}(\text{CN})_6 \cdot n\text{H}_2\text{O}]$ with M = Fe and Ru ($0 \leq n \leq 2$): solid-state NMR and vibrational spectroscopy; crystal structure of the dihydrates, 1

Synthesis, characterisation and nonlinear optical properties of tetrahedral clusters $\text{Cp}_2\text{Mo}_2\text{ME}(\text{CO})_7$, (M = Fe, Ru, Os; E = S, Se), 197

Iron carbonyls

(η^5 -Cyclopentadienyl) $\text{Fe}(\text{CO})_2$ -complexes of sulfonamide anions.

Acylation of the amino group in the sulphanilamide complex and its relevance to the protein labelling, 171

Iron(III)

The determination of stability constants of *N*-acetyl-L-cysteine chrome, nickel, cobalt and iron complexes by potentiometric method, 143

Lead

Organolead(IV) polymers $[(\text{Me}_3\text{Pb})_4\text{M}(\text{CN})_6 \cdot n\text{H}_2\text{O}]$ with M = Fe and Ru ($0 \leq n \leq 2$): solid-state NMR and vibrational spectroscopy; crystal structure of the dihydrates, 1

Magic-angle spinning

Organolead(IV) polymers $[(\text{Me}_3\text{Pb})_4\text{M}(\text{CN})_6 \cdot n\text{H}_2\text{O}]$ with M = Fe and Ru ($0 \leq n \leq 2$): solid-state NMR and vibrational spectroscopy; crystal structure of the dihydrates, 1

Manganese

Triphenylstibine substituted manganese and rhenium carbonyls: synthesis and multinuclear NMR spectroscopic studies. X-ray crystal structures of *ax*- $[\text{Mn}_2(\text{CO})_9(\text{SbPh}_3)]$, $[\text{Mn}(\text{CO})_5(\text{SbPh}_3)][\text{CF}_3\text{SO}_3]$ and *fac*- $[\text{Re}(\text{CO})_3\text{Cl}(\text{SbPh}_3)_2]$, 213

Mesityl group

Torsional distortions in trimesitylsilanes and trimesitylgermanes, 21

Metal clusters

Ligand additivity in 47-electron clusters. Electrochemistry of ($\mu\text{-H}$) $\text{Ru}_3(\mu_3\text{-}\eta^3\text{-XCCR}^{\prime}\text{R})(\text{CO})_9 \cdot n(\text{PPh}_3)_n$ and reactions with electrophiles: one-electron oxidation and adduct formation, 63

Metallacycle

Some mono- and binuclear platinacyclopentane complexes: a comparative kinetic study of reaction of ethyl iodide with platina(II)cyclopentane and dimethylplatinum(II) complexes, 53

Metallocene catalysts

Polymerization of ethylene with metallocene/methylalumininoxane catalysts supported on polysiloxane micro gels and silica, 263

Metallocene complexes

C_1 -Bridged fluorenylidene cyclopentadienylidene complexes of the type $(C_{13}\text{H}_8\text{-CR}^1\text{R}^2\text{-C}_5\text{H}_3\text{R})\text{ZrCl}_2$ (R^1, R^2 = alkyl, phenyl, alkenyl; R = H, alkyl, alkenyl, substituted silyl) as catalyst precursors for the polymerization of ethylene and propylene, 87

Metallocenefluorides

$(C_5\text{H}_5)_2\text{TiF}_2$ and $(C_5\text{H}_5)_2\text{ZrF}_2$ as catalyst precursors for the dehydropolymerisation of silanes, 253

Metallocenes

bis-(*di-tert*-Butylcyclopentadienyl)ytterbium(II): reactions with triisobutylaluminium and aluminium deuteride. Crystal structures of the complex ($\eta^5\text{-}1,3\text{-}'\text{Bu}_2\text{C}_5\text{H}_3)_2\text{Yb}$ and the complex ($\eta^5\text{-}1,3\text{-}'\text{Bu}_2\text{C}_5\text{H}_3)_2\text{Yb}(\mu\text{-D}_2\text{Al}(\eta^2\text{-}1,3\text{-}'\text{Bu}_2\text{C}_5\text{H}_3))$ with Allyl \rightarrow Al extra bonding, 113

Metallo-Phosphane

Zur Reaktivität des sekundären Ferrio-phosphans $\text{Cp}(\text{OC})_2\text{Fe}-\text{P}(t\text{-Bu})(\text{H})$ gegenüber Organoisocyanaten und Organoisothiocyanaten: Synthese der Phospha-ferracyclen $\text{Cp}(\text{CO})-\overline{\text{Fe}-\text{P}(t\text{-Bu})[\text{C}(\text{X})-\text{N}(\text{R})\text{H}]-\text{C}(\text{X})-\text{N}(\text{R})-\text{C}(\text{O})}$ ($\text{X} = \text{O}, \text{S}$, R = Me, Et) durch [3 + 2]-Cycloaddition und Insertion. Übergangsmetall-substituierte Phosphane, Arsane und Stibane, LXI, 247

Metallo-Phosphanes

Fünfgliedrige Phosphamettallacyclen $\text{Cp}(\text{OC})-\overline{\text{M}-\text{PR}_2-\text{C}(\text{=S})-\text{N}(\text{ME})-\text{C}(\text{=O})}$: Darstellung durch [3 + 2]-Cycloaddition der Metallo-phosphane $\text{Cp}(\text{OC})_2\text{M}-\text{PR}_2$ (M = Fe, Ru; R = Alkyl, Aryl) mit Methylisothiocyanat: Übergangsmetall-substituierte Phosphane, Arsane und Stibane, LVIII, 241

Metathetic reactions

Synthesis, characterization, reactivity and structure of some mono and binuclear (η^6 -*p*-cymene)ruthenium(II) complexes, 13

Methyl methacrylate polymerization

Polymerization of methyl methacrylate with alane complexes of bivalent lanthanidocenes, 33

4-Methylquinoline

Phosphine derivatives of the 4-methylquinoline triosmium cluster $[(\mu\text{-H})\text{Os}_3(\text{CO})_{10}\{\mu\text{-}1,2\text{-}\eta^2\text{-C}_9\text{H}_5(\text{CH}_3)\text{N}\}]$: crystal structures of two isomeric compounds $[(\mu\text{-H})\text{Os}_3(\text{CO})_9\{\mu\text{-}1,2\text{-}\eta^2\text{-C}_9\text{H}_5(\text{CH}_3)\text{N}\}\{\text{PPPh}_3\}]$ and $[(\mu\text{-H})\text{Os}_3(\text{CO})_9\{\mu\text{-}1,2\text{-}\eta^2\text{-C}_9\text{H}_5(\text{CH}_3)\text{N}\}\{\text{P}(\text{OMe})_3\}]$, 133

Micro gels

Polymerization of ethylene with metallocene/methylalumininoxane catalysts supported on polysiloxane micro gels and silica, 263

Molybdenum

Azo-phosphine containing complexes of Group 6 metal carbonyls: crystal and molecular structure of $[\text{Mo}(\text{CO})_5\{1\text{-}(4\text{-ethylphenylazo)}\text{-}6\text{-diphenylphosphino-naphthalen-2-ol}\}]$, 279

Electrochemical study of methylfulvalene and methylcyclopentadiene molybdenum complexes, 185

Molybendum

Synthesis, characterisation and nonlinear optical properties of tetrahedral clusters $\text{Cp}_2\text{Mo}_2\text{ME}(\text{CO})_7$, (M = Fe, Ru, Os; E = S, Se), 197

Mononuclear complexes

Synthesis, characterization, reactivity and structure of some mono and binuclear (η^6 -*p*-cymene)ruthenium(II) complexes, 13

N-acetyl-L-cysteine

The determination of stability constants of *N*-acetyl-L-cysteine chrome, nickel, cobalt and iron complexes by potentiometric method, 143

N-acylation

(η^5 -Cyclopentadienyl) $\text{Fe}(\text{CO})_2$ -complexes of sulfonamide anions. Acylation of the amino group in the sulphanilamide complex and its relevance to the protein labelling, 171

Nickel(II)

The determination of stability constants of *N*-acetyl-L-cysteine chrome, nickel, cobalt and iron complexes by potentiometric method, 143

Niobium

Oxidation of niobocene dichloride to niobium(V) cationic species, 271

NLO

Synthesis, characterisation and nonlinear optical properties of tetrahedral clusters $\text{Cp}_2\text{Mo}_2\text{ME}(\text{CO})_7$, (M = Fe, Ru, Os; E = S, Se), 197

Olefin polymerization

PPh-bridged metallocene complexes of the type $(C_{13}\text{H}_8\text{-PPh-C}_1\text{H}_8)_2\text{MCl}_2$ (M = Zr, Hf), 127

Orthometallation

Orthometallation reactions of tris(*p*-methoxyphenyl)phosphine with dirhodium(II) tetraacetate, 177

Osmium

Phosphine derivatives of the 4-methylquinoline triosmium cluster $[(\mu\text{-H})\text{Os}_3(\text{CO})_{10}\{\mu\text{-1,2-}\eta^2\text{-C}_9\text{H}_5(\text{CH}_3)\text{N}\}]$: crystal structures of two isomeric compounds $[(\mu\text{-H})\text{Os}_3(\text{CO})_9\{\mu\text{-1,2-}\eta^2\text{-C}_9\text{H}_5(\text{CH}_3)\text{N}\}\{\text{PPh}_3\}]$ and $[(\mu\text{-H})\text{Os}_3(\text{CO})_9\{\mu\text{-1,2-}\eta^2\text{-C}_9\text{H}_5(\text{CH}_3)\text{N}\}\{\text{P}(\text{OMe})_3\}]$, 133

Synthesis, characterisation and nonlinear optical properties of tetrahedral clusters $\text{Cp}_2\text{Mo}_2\text{ME}(\text{CO})_7$, ($\text{M} = \text{Fe}, \text{Ru}, \text{Os}; \text{E} = \text{S}, \text{Se}$), 197

Oxidation

Oxidation of niobocene dichloride to niobium(V) cationic species, 271

Palladium-coupling

Synthesis and structure of [1,2-bis(1-indenyl)benzene]titanium and zirconium dichlorides, 41

Permethyloligogermanes

Chlorinative cleavage of germanium–germanium bonds in permethyloligogermanes initiated by photo-induced electron transfer, 121

1-Phenylpyrazole

Gold(III) derivatives with C(4)-aurated 1-phenylpyrazole, 225

PH Function

Zur Reaktivität des sekundären Ferrio-phosphans $\text{Cp}(\text{OC})_2\text{Fe-P}(t\text{-Bu})(\text{H})$ gegenüber Organoisocyanaten und Organoisothiocyanaten: Synthese der Phospha-ferracylen $\text{Cp}(\text{OC})\text{-Fe-P}(t\text{-Bu})[\text{C}(\text{X})-\text{N}(\text{R})\text{H}-\text{C}(\text{X})-\text{N}(\text{R})-\text{C}(\text{O})]$ ($\text{X} = \text{O}, \text{S}$, $\text{R} = \text{Me}, \text{Et}$) durch [3 + 2]-Cycloaddition und Insertion. Übergangsmetall-substituierte Phosphane, Arsane und Stibane, LXI, 247

Phosphametallacycle

Zur Reaktivität des sekundären Ferrio-phosphans $\text{Cp}(\text{OC})_2\text{Fe-P}(t\text{-Bu})(\text{H})$ gegenüber Organoisocyanaten und Organoisothiocyanaten: Synthese der Phospha-ferracylen $\text{Cp}(\text{OC})\text{-Fe-P}(t\text{-Bu})[\text{C}(\text{X})-\text{N}(\text{R})\text{H}-\text{C}(\text{X})-\text{N}(\text{R})-\text{C}(\text{O})]$ ($\text{X} = \text{O}, \text{S}$, $\text{R} = \text{Me}, \text{Et}$) durch [3 + 2]-Cycloaddition und Insertion. Übergangsmetall-substituierte Phosphane, Arsane und Stibane, LXI, 247

Phosphametallacycles

Fünfgliedrige	Phosphametallacylen	$\text{Cp}(\text{OC})-$
$\text{M-PR}_2-\text{C}(\text{=S})-\text{N}(\text{ME})-\text{C}(\text{=O})$:	Darstellung durch [3 + 2]-Cycloaddition der Metallo-phosphane $\text{Cp}(\text{OC})_2\text{M-PR}_2$ ($\text{M} = \text{Fe}, \text{Ru}; \text{R} = \text{Alkyl, Aryl}$) mit Methylisothiocyanat: Übergangsmetall-substituierte Phosphane, Arsane und Stibane, LVIII, 241	

Phosphine

Phosphine derivatives of the 4-methylquinoline triosmium cluster $[(\mu\text{-H})\text{Os}_3(\text{CO})_{10}\{\mu\text{-1,2-}\eta^2\text{-C}_9\text{H}_5(\text{CH}_3)\text{N}\}]$: crystal structures of two isomeric compounds $[(\mu\text{-H})\text{Os}_3(\text{CO})_9\{\mu\text{-1,2-}\eta^2\text{-C}_9\text{H}_5(\text{CH}_3)\text{N}\}\{\text{PPh}_3\}]$ and $[(\mu\text{-H})\text{Os}_3(\text{CO})_9\{\mu\text{-1,2-}\eta^2\text{-C}_9\text{H}_5(\text{CH}_3)\text{N}\}\{\text{P}(\text{OMe})_3\}]$, 133

Photo-induced electron transfer

Chlorinative cleavage of germanium–germanium bonds in permethyloligogermanes initiated by photo-induced electron transfer, 121

Photo-induced ligand exchange

Photo-induced ligand exchange reactions of ferrocenylacetacetone in the presence of pyridine or 4,4'-dipyridyl: Crystal and molecular structure of *trans*-bis(ferrocenylacetetylacetato)dipyridineiron(II), $[\text{Fe}(\text{FAnato})_2(\text{Py})_2]$, 165

Photolysis

Photo-induced ligand exchange reactions of ferrocenylacetacetone in the presence of pyridine or 4,4'-dipyridyl: Crystal and molecular structure of *trans*-bis(ferrocenylacetetylacetato)dipyridineiron(II), $[\text{Fe}(\text{FAnato})_2(\text{Py})_2]$, 165

Platinum

Some mono- and binuclear platinacyclopentane complexes: a comparative kinetic study of reaction of ethyl iodide with platina(II)cyclopentane and dimethylplatinum(II) complexes, 53

Polyethylene

C_1 -Bridged fluorenylidene cyclopentadienyldene complexes of the type $(\text{C}_{13}\text{H}_8-\text{CR}^1\text{R}^2-\text{C}_5\text{H}_3\text{R})\text{ZrCl}_2$ ($\text{R}^1, \text{R}^2 = \text{alkyl, phenyl, alkenyl}; \text{R} = \text{H, alkyl, alkenyl, substituted silyl}$) as catalyst precursors for the polymerization of ethylene and propylene, 87

Polymer

Organolead(IV) polymers $[(\text{Me}_3\text{Pb})_4\text{M}(\text{CN})_6 \cdot n\text{H}_2\text{O}]$ with $\text{M} = \text{Fe}$ and Ru ($0 \leq n \leq 2$): solid-state NMR and vibrational spectroscopy; crystal structure of the dihydrates, 1

Polymerization

C_1 -Bridged fluorenylidene cyclopentadienyldene complexes of the type $(\text{C}_{13}\text{H}_8-\text{CR}^1\text{R}^2-\text{C}_5\text{H}_3\text{R})\text{ZrCl}_2$ ($\text{R}^1, \text{R}^2 = \text{alkyl, phenyl, alkenyl}; \text{R} = \text{H, alkyl, alkenyl, substituted silyl}$) as catalyst precursors for the polymerization of ethylene and propylene, 87

Polypropylene

C_1 -Bridged fluorenylidene cyclopentadienyldene complexes of the type $(\text{C}_{13}\text{H}_8-\text{CR}^1\text{R}^2-\text{C}_5\text{H}_3\text{R})\text{ZrCl}_2$ ($\text{R}^1, \text{R}^2 = \text{alkyl, phenyl, alkenyl}; \text{R} = \text{H, alkyl, alkenyl, substituted silyl}$) as catalyst precursors for the polymerization of ethylene and propylene, 87

Polysilanes

$(\text{C}_5\text{H}_5)_2\text{TiF}_2$ and $(\text{C}_5\text{H}_5)_2\text{ZrF}_2$ as catalyst precursors for the dehydro-dopolymerisation of silanes, 253

Porphyrin-silys

A facile synthesis of rhodium(III) porphyrin-silys, 257

Potentiometric titration

The determination of stability constants of *N*-acetyl-L-cysteine chrome, nickel, cobalt and iron complexes by potentiometric method, 143

PPh-bridge

PPh-bridged metallocene complexes of the type $(\text{C}_{13}\text{H}_8-\text{PPh-C}_1\text{H}_8)\text{MCl}_2$ ($\text{M} = \text{Zr, Hf}$), 127

Propeller conformation

Torsional distortions in trimesitylsilanes and trimesitylgermanes, 21

Proton transfer

Photo-induced ligand exchange reactions of ferrocenylacetacetone in the presence of pyridine or 4,4'-dipyridyl: Crystal and molecular structure of *trans*-bis(ferrocenylacetetylacetato)dipyridineiron(II), $[\text{Fe}(\text{FAnato})_2(\text{Py})_2]$, 165

Rhenium

Triphenylstibine substituted manganese and rhenium carbonyls: synthesis and multinuclear NMR spectroscopic studies. X-ray crystal structures of *ax*- $[\text{Mn}_2(\text{CO})_9(\text{SbPh}_3)]$, $[\text{Mn}(\text{CO})_5(\text{SbPh}_3)][\text{CF}_3\text{SO}_3]$ and *fac*- $[\text{Re}(\text{CO})_3\text{Cl}(\text{SbPh}_3)_2]$, 213

Rhodium

A facile synthesis of rhodium(III) porphyrin-silys, 257

Rhodium compounds

Macrocycles incorporating sulphur and *nido*-carborane cages: reactivity towards Rh(III) and Ir(III). Molecular structures of $[\text{Ir}(\text{C}_5\text{Me}_5)\text{Cl}(7,8\text{-}\mu\text{-}(\text{SCH}_2\text{CH}_2\text{S})\text{-}7,8\text{-C}_2\text{B}_9\text{H}_{10})]$ and $[\text{Rh}(\text{C}_5\text{Me}_5)\text{Cl}(7,8\text{-}\mu\text{-}(\text{S}(\text{CH}_2\text{CH}_2(\text{OCH}_2\text{CH}_2)_3\text{S})\text{-}7,8\text{-C}_2\text{B}_9\text{H}_{10})]$, 149

Ring opening

Fünfgliedrige	$\text{PhosphametallacylenCp}(\text{OC})-$
$\text{M-PR}_2-\text{C}(\text{=S})-\text{N}(\text{ME})-\text{C}(\text{=O})$:	Darstellung durch [3 + 2]-Cycloaddition der Metallo-phosphane $\text{Cp}(\text{OC})_2\text{M-PR}_2$ ($\text{M} = \text{Fe}, \text{Ru}; \text{R} = \text{Alkyl, Aryl}$) mit Methylisothiocyanat: Übergangsmetall-substituierte Phosphane, Arsane und Stibane, LVIII, 241

Ruthenium

Ligand additivity in 47-electron clusters. Electrochemistry of $(\mu\text{-H})\text{Ru}_3(\mu_3\text{-}\eta^3\text{-XCCR})(\text{CO})_{9-n}(\text{PPh}_3)_n$ and reactions with electrophiles: one-electron oxidation and adduct formation, 63

Organolead(IV) polymers $[(\text{Me}_3\text{Pb})_4\text{M}(\text{CN})_6 \cdot n\text{H}_2\text{O}]$ with $\text{M} = \text{Fe}$ and Ru ($0 \leq n \leq 2$): solid-state NMR and vibrational spectroscopy; crystal structure of the dihydrates, 1

Synthesis, characterisation and nonlinear optical properties of tetrahedral clusters $\text{Cp}_2\text{Mo}_2\text{ME}(\text{CO})_7$, ($\text{M} = \text{Fe}, \text{Ru}, \text{Os}; \text{E} = \text{S}, \text{Se}$), 197

Synthesis, characterization of *(R)*-2,2'-diamino-1,1'-binaphthyl mono-sulfonamide and its ruthenium complex and evaluation of the catalytic properties in transfer hydrogenation reactions, 77

Silane

Torsional distortions in trimesitylsilanes and trimesitylgermanes, 21

Silanes

Preparation of halogeno(pentafluorophenyl)silanes $(\text{C}_6\text{F}_5)_n\text{SiX}_{4-n}$ ($\text{X} = \text{F}, \text{Cl}$ and Br ; $n = 2, 3$) from pentafluorophenyl(phenyl)silanes $(\text{C}_6\text{F}_5)_n\text{SiPh}_{4-n}$, 233

Silica

Polymerization of ethylene with metallocene/methylalumininoxane catalysts supported on polysiloxane micro gels and silica, 263

Silicon

Preparation of halogeno(pentafluorophenyl)silanes $(\text{C}_6\text{F}_5)_n\text{SiX}_{4-n}$ ($\text{X} = \text{F}, \text{Cl}$ and Br ; $n = 2, 3$) from pentafluorophenyl(phenyl)silanes $(\text{C}_6\text{F}_5)_n\text{SiPh}_{4-n}$, 233

Solid-state NMR

Organolead(IV) polymers $[(\text{Me}_3\text{Pb})_4\text{M}(\text{CN})_6 \cdot n\text{H}_2\text{O}]$ with $\text{M} = \text{Fe}$ and Ru ($0 \leq n \leq 2$): solid-state NMR and vibrational spectroscopy; crystal structure of the dihydrates, 1

Solid state synthesis

A rapid and convenient method for the formation of (diene) $\text{Fe}(\text{CO})_3$ complexes, 287

Stability constants

The determination of stability constants of *N*-acetyl-L-cysteine chrome, nickel, cobalt and iron complexes by potentiometric method, 143

Steric congestion

Torsional distortions in trimesitylsilanes and trimesitylgermanes, 21

Stibine

Triphenylstibine substituted manganese and rhenium carbonyls: synthesis and multinuclear NMR spectroscopic studies. X-ray crystal structures of *ax*- $[\text{Mn}_2(\text{CO})_6(\text{SbPh}_3)_2]$, $[\text{Mn}(\text{CO})_5(\text{SbPh}_3)][\text{CF}_3\text{SO}_3]$ and *fac*- $[\text{Re}(\text{CO})_3\text{Cl}(\text{SbPh}_3)_2]$, 213

Structures

A facile synthesis of rhodium(III) porphyrin-silyls, 257

Sulfonamide

Synthesis, characterization of *(R)*-2,2'-diamino-1,1'-binaphthyl mono-sulfonamide and its ruthenium complex and evaluation of the catalytic properties in transfer hydrogenation reactions, 77

Sulfonamide anions

$(\eta^5\text{-Cyclopentadienyl})\text{Fe}(\text{CO})_2$ -complexes of sulfonamide anions. Acylation of the amino group in the sulfanilamide complex and its relevance to the protein labelling, 171

Support

Polymerization of ethylene with metallocene/methylalumininoxane catalysts supported on polysiloxane micro gels and silica, 263

Tetrahedral clusters

Synthesis, characterisation and nonlinear optical properties of tetrahedral clusters $\text{Cp}_2\text{Mo}_2\text{ME}(\text{CO})_7$, ($\text{M} = \text{Fe}, \text{Ru}, \text{Os}; \text{E} = \text{S}, \text{Se}$), 197

Thioether

Macrocycles incorporating sulphur and *nido*-carborane cages: reactivity towards Rh(III) and Ir(III). Molecular structures of $[\text{Ir}(\text{C}_5\text{Me}_5)\text{Cl}(7,8\text{-}\mu\text{-}(\text{SCH}_2\text{CH}_2\text{S})\text{-}7,8\text{-C}_2\text{B}_9\text{H}_{10})]$ and $[\text{Rh}(\text{C}_5\text{Me}_5)\text{Cl}(7,8\text{-}\mu\text{-}(\text{S}(\text{CH}_2\text{CH}_2\text{(OCH}_2\text{CH}_2)_3\text{S})\text{-}7,8\text{-C}_2\text{B}_9\text{H}_{10})]$, 149

Titanocene

$(\text{C}_5\text{H}_5)_2\text{TiF}_2$ and $(\text{C}_5\text{H}_5)_2\text{ZrF}_2$ as catalyst precursors for the dehydropolymerisation of silanes, 253

Synthesis and structure of [1,2-bis(1-indenyl)benzene]titanium and zirconium dichlorides, 41

Transfer hydrogenation

Synthesis, characterization of *(R)*-2,2'-diamino-1,1'-binaphthyl mono-sulfonamide and its ruthenium complex and evaluation of the catalytic properties in transfer hydrogenation reactions, 77

Transition metal

Study on the reactivity of $\text{RuCo}_2(\mu_3\text{-S})(\text{CO})_6$: synthesis and characterization of the cluster complexes containing the tetrahedral core MRuCoS ($\text{M} = \text{Mo}, \text{W}$) and the two tetrahedral core MRuCoS clusters, 157

Tris(paramethoxyphenyl)phosphine

Orthometallation reactions of tris(*p*-methoxyphenyl)phosphine with dirhodium(II) tetraacetate, 177

Tungsten

Azo-phosphine containing complexes of Group 6 metal carbonyls: crystal and molecular structure of $[\text{Mo}(\text{CO})_5\{1\text{-}(4\text{-ethylphenylazo)}\text{-}6\text{-diphenylphosphino-naphthalen-2-ol}\}]$, 279

X-ray structure

Triphenylstibine substituted manganese and rhenium carbonyls: synthesis and multinuclear NMR spectroscopic studies. X-ray crystal structures of *ax*- $[\text{Mn}_2(\text{CO})_6(\text{SbPh}_3)_2]$, $[\text{Mn}(\text{CO})_5(\text{SbPh}_3)][\text{CF}_3\text{SO}_3]$ and *fac*- $[\text{Re}(\text{CO})_3\text{Cl}(\text{SbPh}_3)_2]$, 213

Ytterbium

bis-(*di-tert*-Butylcyclopentadienyl)ytterbium(II): reactions with triisobutylaluminum and aluminium deuteride. Crystal structures of the complex $(\eta^5\text{-}1,3\text{-}'\text{Bu}_2\text{C}_5\text{H}_3)_2\text{Yb}$ and the complex $(\eta^5\text{-}1,3\text{-}'\text{Bu}_2\text{C}_5\text{H}_3)_2\text{Yb}(\mu\text{-D})_2\text{Al}(\eta^2\text{-}1,3\text{-}'\text{Bu}_2\text{C}_5\text{H}_3)$ with $\text{Al}\text{lyl} \rightarrow \text{Al}$ extra bonding, 113

Zirconium

C_1 -Bridged fluorenylidene cyclopentadienyldene complexes of the type $(\text{C}_{13}\text{H}_8\text{-CR}^1\text{R}^2\text{-C}_5\text{H}_3\text{R})\text{ZrCl}_2$ ($\text{R}^1, \text{R}^2 = \text{alkyl, phenyl, alkenyl}; \text{R} = \text{H, alkyl, alkenyl, substituted silyl}$) as catalyst precursors for the polymerization of ethylene and propylene, 87

PPh-bridged metallocene complexes of the type $(\text{C}_{13}\text{H}_8\text{-PPh-C}_1\text{H}_8)\text{MCl}_2$ ($\text{M} = \text{Zr, Hf}$), 127

Zirconocene

$(\text{C}_5\text{H}_5)_2\text{TiF}_2$ and $(\text{C}_5\text{H}_5)_2\text{ZrF}_2$ as catalyst precursors for the dehydropolymerisation of silanes, 253

Synthesis and structure of [1,2-bis(1-indenyl)benzene]titanium and zirconium dichlorides, 41