

Subject Index of Volume 483

Acetylide

Synthesis and structure of $[(C_5Me_5)_2Sm(THF)]_2(\mu-\eta^1:\eta^1-C_2)$ (W.J. Evans, G.W. Rabe and J.W. Ziller), 21

Alkoxide

Dehydrogenation of organolanthanide alkoxides and X-ray crystal structures of the reaction product $[(C_5H_5)_2Ln(\mu-O(Me)C=CHCH_3)]_2$ (Ln = Dy, Yb) (Z. Wu, Z. Xu, X. You, X. Zhou and X. Huang), 107

Alkyl

Asymmetric diarsines: Synthesis of dimeric pentamethylcyclopentadienylchloroarsine, dimeric pentamethylcyclopentadienyl(methyl)arsine and the crystal structure of dimeric pentamethylcyclopentadienyl(methyl)arsine (X.-W. Li, J. Lorberth and K. Harms), 229

Alkyl complexes

Redox behaviour and reactions of $(PhCH_2)_3Sb$; syntheses and structures of $[(PhCH_2)_3SbMe]I$ and $[(PhCH_2)_3SbMe]_3Sb_3I_{12}$ (H.J. Breunig, K.H. Ebert, R. Kaller, Y. Mourad, A. Atmani and Y. Mugnier), 167

Alkyls

Hydrogen elimination in the thermal decomposition of iridium-*n*-alkyl complexes (C. Bergwall and E.J. Parsons), 73

Alkynide

Synthesis and structure of $[(C_5Me_5)_2Sm(THF)]_2(\mu-\eta^1:\eta^1-C_2)$ (W.J. Evans, G.W. Rabe and J.W. Ziller), 21

Allyls

Nucleophilic reactions of $(\eta^5-C_5H_5)Mo(CO)_2(\eta^3-C_6H_7)$ (T.-F. Wang, M.-C. Lee and Y.-S. Wen), 91

Aluminium

Nucleophilic reactions of $(\eta^5-C_5H_5)Mo(CO)_2(\eta^3-C_6H_7)$ (T.-F. Wang, M.-C. Lee and Y.-S. Wen), 91

Amides

Reaktionen subvalenter Verbindungen des Siliciums mit alkylierten Aromaten (F. Huppmann, M. Noltemeyer und A. Meller), 217

Amine

Synthesis and X-ray crystal structure of nitrogen base adducts of decamethylsamarocene: $(C_5Me_5)_2Sm(NH_2CMe_3)$ and $(C_5Me_5)_2Sm(N-MeIm)_2$ (W.J. Evans, G.W. Rabe and J.W. Ziller), 39

Antimony

Redox behaviour and reactions of $(PhCH_2)_3Sb$; syntheses and structures of $[(PhCH_2)_3SbMe]I$ and $[(PhCH_2)_3SbMe]_3Sb_3I_{12}$ (H.J. Breunig, K.H. Ebert, R. Kaller, Y. Mourad, A. Atmani and Y. Mugnier), 167

Arene complexes

Highly regio- and stereo-controlled hydroformylation of *ortho*-substituted $(\eta^6\text{-styrene})chromium$ complexes (J. Brocard, L. Péliniski, L. Maciejewski, S. Naïli, H. Bricout, A. Mortreux and F. Petit), C1

Arsenic

Asymmetric diarsines: Synthesis of dimeric pentamethylcyclopentadienylchloroarsine, dimeric pentamethylcyclopentadienyl(methyl)arsine and the crystal structure of dimeric pentamethylcyclopentadienyl(methyl)arsine (X.-W. Li, J. Lorberth and K. Harms), 229

Barium

Ether- and amine-substituted cyclopentadienes as ligands in organometallic compounds: examples for iron and barium (W.S. Rees, Jr., U.W. Lay and K.A. Dippel), 27

η^3 -Benzyl

Structural and NMR spectroscopic characterization of η^3 -Benzyl palladium(II) complexes (G. Gatti, J.A. López, C. Mealli and A. Musco), 77

π -bonding

Mercury coordination to Exo-dithio-7,8-dicarba-*nido*-undecaborate derivatives (F. Teixidor, J.A. Ayllón, C. Viñas, R. Kivekäs, R. Sillanpää and J. Casabó), 153

Boron compounds

Mercury coordination to Exo-dithio-7,8-dicarba-*nido*-undecaborate derivatives (F. Teixidor, J.A. Ayllón, C. Viñas, R. Kivekäs, R. Sillanpää and J. Casabó), 153

Bulky ligands

Asymmetric diarsines: Synthesis of dimeric pentamethylcyclopentadienylchloroarsine, dimeric pentamethylcyclopentadienyl(methyl)arsine and the crystal structure of dimeric pentamethylcyclopentadienyl(methyl)arsine (X.-W. Li, J. Lorberth and K. Harms), 229

Cage compound

Semipräparative Trennung gemischt substituierter Octa-(organylsilsesquioxane) mittels Normal-Phase-HPLC und ihre ^{29}Si -NMR-spektroskopische Untersuchung (B.J. Hendan und H.C. Marsmann), 33

Carbon-13

Synthesis and characterization of new titanium(II) carbonyls of stoichiometry $TiX_2(CO)_2(dmpe)_2$: an NMR study (M.D. Spencer and G.S. Girolami), 99

Carbonyl

Synthesis and characterization of new titanium(II) carbonyls of stoichiometry $TiX_2(CO)_2(dmpe)_2$: an NMR study (M.D. Spencer and G.S. Girolami), 99

Synthesis, characterization and crystal structures of $[Mo(CO)_5]_4$ -TPTA and $[W(CO)_5]_4$ -TPTA (TPTA = 1,4,8,11-tetrakis(methyldiphenylphosphino)-1,4,8,11-tetraazacyclotetradecane) (P. Planinić, H. Meider and D. Matković-Čalogović), 205

Carborane ligands

Mercury coordination to Exo-dithio-7,8-dicarba-*nido*-undecaborate derivatives (F. Teixidor, J.A. Ayllón, C. Viñas, R. Kivekäs, R. Sillanpää and J. Casabó), 153

Catalysts

The influence of steric and electronic effects of substituents on the cyclopentadienyl ring on the behaviour of $(CpR)_2TiCl_2$ and $(CpR)CpTiCl_2/Et_3Al_2Cl_3$ catalysts in polymerization of ethene (P.C. Möhring, N. Vlachakis, N.E. Grimmer and N.J. Coville), 159

Chlorination

Synthese und Charakterisierung von Poly(dichlorsilylen-co-dichlormethylen) und Poly(dimethylsilylen-co-2,2-propylen) (W. Habel, W. Haeusler und P. Sartori), 183

Chloropoly(carbosilanes)

Synthese und Charakterisierung von Poly(dichlorsilylen-co-dichlormethylen) und Poly(dimethylsilylen-co-2,2-propylen) (W. Habel, W. Haeusler und P. Sartori), 183

Cholestanol

Group 4 metallocene complexes bearing cholestanol-derived substituents at the Cp-rings—their synthesis and use in propene polymerization catalysis (G. Erker and C. Mollenkopf), 173

Chromium

Highly regio- and stereo-controlled hydroformylation of *ortho*-substituted (η^6 -styrene)chromium complexes (J. Brocard, L. Péliniski, L. Maciejewski, S. Naili, H. Bricout, A. Mortreux and F. Petit), C1

Cluster

Synthesis of $M^0(\eta^2\text{-dppf})_2$ ($M = Pd, Pt$; $dppf = Fe(C_5H_4PPh_2)_2$) and their reactions with $Fe_3(\mu_3\text{-S})_2(CO)_9$ and elemental sulfur (Z.-G. Fang, P.M.N. Low, S.-C. Ng and T.S.A. Hor), 17

Crystal structure

Dehydrogenation of organolanthanide alkoxides and X-ray crystal structures of the reaction product $\{[(C_5H_5)_2Ln(\mu\text{-O}(\text{Me})C=CHCH_3)_2]\}$ ($Ln = Dy, Yb$) (Z. Wu, Z. Xu, X. You, X. Zhou and X. Huang), 107

Syntheses and molecular structure of $(C_8H_8)Ln(2,4\text{-}C_7H_{11})\cdot THF$ ($Ln = Nd, Er$) (S. Zhang, J. Jin, G. Wei, W. Chen and J. Liu), 57

Synthesis, characterization and crystal structures of $[Mo(CO)_5]_4$ -TPTA and $[W(CO)_5]_4$ -TPTA (TPTA = 1,4,8,11-tetrakis(methylidiphenylphosphino)-1,4,8,11-tetraazacyclotetradecane) (P. Planinić, H. Meider and D. Matković-Čalogović), 205

The preparation of the mixed thiolato–isocyanide complexes *cis*- and *trans*- $(\eta^5\text{-}C_5H_5)W(CO)_2(SR)(CNR')$: the structure of *trans*- $(\eta^5\text{-}C_5H_5)W(CO)_2(S\text{-}4\text{-}C_6H_4Me)(CNCMe_3)$ (A. Shaver, R.C. Hynes and D. Trojansek), 1

Cyclohexadiene

Synthesis and electrophilic reactivity of $\{(\eta^5\text{-}1\text{-}N(CH_2CH_2O)_3Si\text{-}6\text{-}Me\text{-}C_6H_5)Mn(CO)_2NO\}BF_4$ (S.S. Lee, E. Jeong and Y.K. Chung), 115

Cyclohexadienyl

Synthesis and electrophilic reactivity of $\{(\eta^5\text{-}1\text{-}N(CH_2CH_2O)_3Si\text{-}6\text{-}Me\text{-}C_6H_5)Mn(CO)_2NO\}BF_4$ (S.S. Lee, E. Jeong and Y.K. Chung), 115

Cyclometallated platinum(II), (IV)

Cyclometallated platinum(II) and platinum(IV) compounds of *N*-benzylidene-2-chlorobenzylamine. Crystal structure of $[PtMe(PPh_3)(C_6H_4CH=NCH_2C_6H_4Cl\text{-}2)]$ (M. Crespo, X. Solans and M. Font-Bardía), 187

Cyclometallation

Synthesis, characterization and structure of cyclopalladated ferrocenylketimines (S.Q. Huo, Y.J. Wu, C.X. Du, Y. Zhu, H.Z. Yuan and X.A. Mao), 139

Cyclooctatetraenyl

Syntheses and molecular structure of $(C_8H_8)Ln(2,4\text{-}C_7H_{11})\cdot THF$ ($Ln = Nd, Er$) (S. Zhang, J. Jin, G. Wei, W. Chen and J. Liu), 57

Cyclopalladation

Schiff bases derived from benzoylferrocene and their cyclopalladated derivatives. X-Ray crystal structure of $[Pd\{(\eta^5\text{-}C_5H_5)\text{-}Fe[(\eta^5\text{-}C_5H_5)\text{-}C(C_6H_5)=N\text{-}C_6H_5)]Cl(PPh_3)]$ (R. Bosque, C. López, J. Sales and X. Solans), 61

Cyclopentadienes

Ether- and amine-substituted cyclopentadienes as ligands in organometallic compounds: examples for iron and barium (W.S. Rees, Jr., U.W. Lay and K.A. Dippel), 27

Cyclopentadienyl

Asymmetric diarsines: Synthesis of dimeric pentamethylcyclopentadienylchloroarsine, dimeric pentamethylcyclopentadienyl(methyl)arsine and the crystal structure of dimeric pentamethylcyclopentadienyl(methyl)arsine (X.-W. Li, J. Lorberth and K. Harms), 229

Dehydrogenation of organolanthanide alkoxides and X-ray crystal structures of the reaction product $\{[(C_5H_5)_2Ln(\mu\text{-O}(\text{Me})C=CHCH_3)_2]\}$ ($Ln = Dy, Yb$) (Z. Wu, Z. Xu, X. You, X. Zhou and X. Huang), 107

Nucleophilic reactions of $(\eta^5\text{-}C_5H_5)Mo(CO)_2(\eta^3\text{-}C_6H_7)$ (T.-F. Wang, M.-C. Lee and Y.-S. Wen), 91

The influence of steric and electronic effects of substituents on the cyclopentadienyl ring on the behaviour of $(CpR)_2TiCl_2$ and $(CpR)CpTiCl_2/Et_3Al_2Cl_3$ catalysts in polymerization of ethene (P.C. Möhring, N. Vlachakis, N.E. Grimmer and N.J. Coville), 159

The preparation of the mixed thiolato–isocyanide complexes *cis*- and *trans*- $(\eta^5\text{-}C_5H_5)W(CO)_2(SR)(CNR')$: the structure of *trans*- $(\eta^5\text{-}C_5H_5)W(CO)_2(S\text{-}4\text{-}C_6H_4Me)(CNCMe_3)$ (A. Shaver, R.C. Hynes and D. Trojansek), 1

Dielectricity constant

Molekülstruktur und Ladungsverteilung in metallorganischen Verbindungen der f-Elemente VII. Synthese und Untersuchungen von 1:1-Addukten zwischen Tris(cyclopentadienyl)Lanthanoid(III)-Verbindungen und Triethylphosphat (B. Kanellakopulos, R. Von Ammon, C. Apostolidis, E. Dornberger, R. Maier, J. Müller und X. Zhang), 193

2,4-Dimethylpentadienyl

Syntheses and molecular structure of $(C_8H_8)Ln(2,4\text{-}C_7H_{11})\cdot THF$ ($Ln = Nd, Er$) (S. Zhang, J. Jin, G. Wei, W. Chen and J. Liu), 57

Dinuclear complexes

Oxo and thiophosphoramides of niobocene or tantalocene as organometallic ligands: synthesis of heterobimetallic complexes $[Cp_2M(CO)(\mu, \eta^1: \eta^1\text{-}PR_2X)M'L_n]$ ($M = Nb$ or Ta ; $X = O$ or S ; $M' = Cr, Mo, W, Mn, Fe$ or Sn) (S. Challet, M.M. Kubicki, J.-C. Leblanc, C. Moise and B. Nuber), 47

Diphosphine

Synthesis of $M^0(\eta^2\text{-dppf})_2$ ($M = Pd, Pt$; $dppf = Fe(C_5H_4PPh_2)_2$) and their reactions with $Fe_3(\mu_3\text{-S})_2(CO)_9$ and elemental sulfur (Z.-G. Fang, P.M.N. Low, S.-C. Ng and T.S.A. Hor), 17

Dipole moments

Molekülstruktur und Ladungsverteilung in metallorganischen Verbindungen der f-Elemente VII. Synthese und Untersuchungen von 1:1-Addukten zwischen Tris(cyclopentadienyl)Lanthanoid(III)-Verbindungen und Triethylphosphat (B. Kanellakopulos, R. Von Ammon, C. Apostolidis, E. Dornberger, R. Maier, J. Müller und X. Zhang), 193

 δ -donor adducts

Molekülstruktur und Ladungsverteilung in metallorganischen Verbindungen der f-Elemente VII. Synthese und Untersuchungen von 1:1-Addukten zwischen Tris(cyclopentadienyl)Lanthanoid(III)-Verbindungen und Triethylphosphat (B.

Kanellakopoulos, R. Von Ammon, C. Apostolidis, E. Dornberger, R. Maier, J. Müller und X. Zhang), 193

Dysprosium

Dehydrogenation of organolanthanide alkoxides and X-ray crystal structures of the reaction product $[(C_5H_5)_2Ln(\mu-O(Me)C=CHCH_3)_2]$ ($Ln = Dy, Yb$) (Z. Wu, Z. Xu, X. You, X. Zhou and X. Huang), 107

Electrochemistry

Synthesis, X-ray crystal structure, and redox properties of $CpRu(NO)(mnt)$ (K. Yang, S.G. Bott and M.G. Richmond), 7

Elimination reactions

Hydrogen elimination in the thermal decomposition of iridium-*n*-alkyl complexes (C. Bergwall and E.J. Parsons), 73

Erbium

Syntheses and molecular structure of $(C_8H_8)Ln(2,4-C_7H_{11}) \cdot THF$ ($Ln = Nd, Er$) (S. Zhang, J. Jin, G. Wei, W. Chen and J. Liu), 57

Extended Hückel calculations

Synthesis, X-ray crystal structure, and redox properties of $CpRu(NO)(mnt)$ (K. Yang, S.G. Bott and M.G. Richmond), 7

Ferrocene

Schiff bases derived from benzoylferrocene and their cyclopalladated derivatives. X-Ray crystal structure of $[Pd((\eta^5-C_5H_5)-Fe((\eta^5-C_5H_5)-C(C_6H_5)=N-C_6H_5)Cl)(PPh_3)]$ (R. Bosque, C. López, J. Sales and X. Solans), 61

Synthesis, characterization and structure of cyclopalladated ferrocenylketimines (S.Q. Huo, Y.J. Wu, C.X. Du, Y. Zhu, H.Z. Yuan and X.A. Mao), 139

Ferrocenes

Ether- and amine-substituted cyclopentadienes as ligands in organometallic compounds: examples for iron and barium (W.S. Rees, Jr., U.W. Lay and K.A. Dippel), 27

Ferrocenyl phosphine

Synthesis of $M^0(\eta^2-dppf)_2$ ($M = Pd, Pt$; $dppf = Fe(C_5H_4PPh_2)_2$) and their reactions with $Fe_3(\mu_3-S)_2(CO)_9$ and elemental sulfur (Z.-G. Fang, P.M.N. Low, S.-C. Ng and T.S.A. Hor), 17

Group 4

Synthesis and characterization of new titanium(II) carbonyls of stoichiometry $TiX_2(CO)_2(dmpe)_2$: an NMR study (M.D. Spencer and G.S. Girolami), 99

Group 15

Asymmetric diarsines: Synthesis of dimeric pentamethylcyclopentadienylchloroarsine, dimeric pentamethylcyclopentadienyl(methyl)arsine and the crystal structure of dimeric pentamethylcyclopentadienyl(methyl)arsine (X.-W. Li, J. Lorberth and K. Harms), 229

Group IV

Synthesis, characterization and spectroscopic investigations of tin(IV) and organotin(IV) derivatives of 4-aroyle-5-pyrazolones. Crystal structure of *trans*-dimethylbis[1-phenyl-3-methyl-4-(4-bromobenzoyl)-pyrazolon-5-ato]tin(IV) (C. Pettinari, F. Marchetti, D. Leonesi, M. Rossi and F. Caruso), 123

HPLC

Semipräparative Trennung gemischt substituierter Octa-(organylsilbesquioxane) mittels Normal-Phase-HPLC und ihre ^{29}Si -NMR-spektroskopische Untersuchung (B.J. Hendan und H.C. Marsmann), 33

Hydroformylation

Highly regio- and stereo-controlled hydroformylation of *ortho*-substituted (η^6 -styrene)chromium complexes (J. Brocard, L.

Péliniski, L. Maciejewski, S. Naïli, H. Bricout, A. Mortreux and F. Petit), C1

Imidazole

Synthesis and X-ray crystal structure of nitrogen base adducts of decamethylsamarocene: $(C_5Me_5)_2Sm(NH_2CMe_3)$ and $(C_5Me_5)_2Sm(N-MeIm)_2$ (W.J. Evans, G.W. Rabe and J.W. Ziller), 39

Imine

Cyclometallated platinum(II) and platinum(IV) compounds of *N*-benzylidene-2-chlorobenzylamine. Crystal structure of $[PtMe(PPh_3)(C_6H_4CH=NCH_2C_6H_4Cl-2)]$ (M. Crespo, X. Solans and M. Font-Bardía), 187

Synthesis, characterization and structure of cyclopalladated ferrocenylketimines (S.Q. Huo, Y.J. Wu, C.X. Du, Y. Zhu, H.Z. Yuan and X.A. Mao), 139

Infrared spectroscopy

Synthesis, characterization and spectroscopic investigations of tin(IV) and organotin(IV) derivatives of 4-aroyle-5-pyrazolones. Crystal structure of *trans*-dimethylbis[1-phenyl-3-methyl-4-(4-bromobenzoyl)-pyrazolon-5-ato]tin(IV) (C. Pettinari, F. Marchetti, D. Leonesi, M. Rossi and F. Caruso), 123

Intramolecular coordination

Ether- and amine-substituted cyclopentadienes as ligands in organometallic compounds: examples for iron and barium (W.S. Rees, Jr., U.W. Lay and K.A. Dippel), 27

Iridium

Hydrogen elimination in the thermal decomposition of iridium-*n*-alkyl complexes (C. Bergwall and E.J. Parsons), 73

Iron

Ether- and amine-substituted cyclopentadienes as ligands in organometallic compounds: examples for iron and barium (W.S. Rees, Jr., U.W. Lay and K.A. Dippel), 27

Schiff bases derived from benzoylferrocene and their cyclopalladated derivatives. X-Ray crystal structure of $[Pd((\eta^5-C_5H_5)-Fe((\eta^5-C_5H_5)-C(C_6H_5)=N-C_6H_5)Cl)(PPh_3)]$ (R. Bosque, C. López, J. Sales and X. Solans), 61

Synthesis, characterization and structure of cyclopalladated ferrocenylketimines (S.Q. Huo, Y.J. Wu, C.X. Du, Y. Zhu, H.Z. Yuan and X.A. Mao), 139

Isocyanide

The preparation of the mixed thiolato-isocyanide complexes *cis*- and *trans*- $(\eta^5-C_5H_5)W(CO)_2(SR)(CNR')$: the structure of *trans*- $(\eta^5-C_5H_5)W(CO)_2(S-4-C_6H_4Me)(CNCMe_3)$ (A. Shaver, R.C. Hynes and D. Trojansek), 1

Lanthanide

Synthesis and structure of $[(C_5Me_5)_2Sm(THF)]_2(\mu-\eta^1:\eta^1-C_2)$ (W.J. Evans, G.W. Rabe and J.W. Ziller), 21

Synthesis and X-ray crystal structure of nitrogen base adducts of decamethylsamarocene: $(C_5Me_5)_2Sm(NH_2CMe_3)$ and $(C_5Me_5)_2Sm(N-MeIm)_2$ (W.J. Evans, G.W. Rabe and J.W. Ziller), 39

Lanthanoid(III) complexes

Molekülstruktur und Ladungsverteilung in metallorganischen Verbindungen der f-Elemente VII. Synthese und Untersuchungen von 1:1-Addukten zwischen Tris(cyclopentadienyl)Lanthanoid(III)-Verbindungen und Triethylphosphat (B. Kanellakopoulos, R. Von Ammon, C. Apostolidis, E. Dornberger, R. Maier, J. Müller und X. Zhang), 193

Maleonitriledithiolate

Synthesis, X-ray crystal structure, and redox properties of $CpRu(NO)(mnt)$ (K. Yang, S.G. Bott and M.G. Richmond), 7

Manganese

Synthesis and electrophilic reactivity of $[(\eta^5\text{-}1\text{-}N(\text{CH}_2\text{CH}_2\text{O})_3\text{Si-6-Me-C}_6\text{H}_5)\text{Mn}(\text{CO})_2\text{NO}]\text{BF}_4$ (S.S. Lee, E. Jeong and Y.K. Chung), 115

Mercury compounds

Mercury coordination to Exo-dithio-7,8-dicarba-*nido*-undecaborate derivatives (F. Teixidor, J.A. Ayllón, C. Viñas, R. Kivekäs, R. Sillanpää and J. Casabó), 153

Metal carbonyl cation

Nucleophilic reactions of $(\eta^5\text{-C}_5\text{H}_5)\text{Mo}(\text{CO})_2(\eta^3\text{-C}_6\text{H}_7)$ (T.-F. Wang, M.-C. Lee and Y.-S. Wen), 91

Metallacarborane

Mercury coordination to Exo-dithio-7,8-dicarba-*nido*-undecaborate derivatives (F. Teixidor, J.A. Ayllón, C. Viñas, R. Kivekäs, R. Sillanpää and J. Casabó), 153

Metallocenes

Ether- and amine-substituted cyclopentadienes as ligands in organometallic compounds: examples for iron and barium (W.S. Rees, Jr., U.W. Lay and K.A. Dippel), 27

Synthesis and structure of $[(\text{C}_5\text{Me}_5)_2\text{Sm}(\text{THF})_2(\mu\text{-}\eta^1\text{:}\eta^1\text{-C}_2)]$ (W.J. Evans, G.W. Rabe and J.W. Ziller), 21

Synthesis and X-ray crystal structure of nitrogen base adducts of decamethylsamarocene: $(\text{C}_5\text{Me}_5)_2\text{Sm}(\text{NH}_2\text{CMe}_3)$ and $(\text{C}_5\text{Me}_5)_2\text{Sm}(\text{N-MeIm})_2$ (W.J. Evans, G.W. Rabe and J.W. Ziller), 39

Molybdenum

Nucleophilic reactions of $(\eta^5\text{-C}_5\text{H}_5)\text{Mo}(\text{CO})_2(\eta^3\text{-C}_6\text{H}_7)$ (T.-F. Wang, M.-C. Lee and Y.-S. Wen), 91

Synthesis, characterization and crystal structures of $[\text{Mo}(\text{CO})_5]_4\text{-TPTA}$ and $[\text{W}(\text{CO})_5]_4\text{TPTA}$ (TPTA = 1,4,8,11-tetrakis(methyldiphenylphosphino)-1,4,8,11-tetraazacyclotetradecane) (P. Planinić, H. Meider and D. Matković-Čalogović), 205

Neodymium

Syntheses and molecular structure of $(\text{C}_8\text{H}_8)\text{Ln}(2,4\text{-C}_7\text{H}_{11})\cdot\text{THF}$ (Ln = Nd, Er) (S. Zhang, J. Jin, G. Wei, W. Chen and J. Liu), 57

Niobium

Oxo and thiophosphoramides of niobocene or tantalocene as organometallic ligands: synthesis of heterobimetallic complexes $[\text{Cp}_2\text{M}(\text{CO})_x(\mu\text{-}\eta^1\text{:}\eta^1\text{-PR}_2\text{X})\text{M}'\text{L}_n]$ (M = Nb or Ta; X = O or S; M' = Cr, Mo, W, Mn, Fe or Sn) (S. Challet, M.M. Kubicki, J.-C. Leblanc, C. Moïse and B. Nuber), 47

Nitrosyl

Synthesis and electrophilic reactivity of $[(\eta^5\text{-}1\text{-}N(\text{CH}_2\text{CH}_2\text{O})_3\text{Si-6-Me-C}_6\text{H}_5)\text{Mn}(\text{CO})_2\text{NO}]\text{BF}_4$ (S.S. Lee, E. Jeong and Y.K. Chung), 115

Nitrosyls

Synthesis, X-ray crystal structure, and redox properties of $\text{CpRu}(\text{NO})(\text{mnt})$ (K. Yang, S.G. Bott and M.G. Richmond), 7

NMR

Structural and NMR spectroscopic characterization of $\eta^3\text{-Benzyl palladium(II)}$ complexes (G. Gatti, J.A. López, C. Mealli and A. Musco), 77

Synthesis and characterization of new titanium(II) carbonyls of stoichiometry $\text{TiX}_2(\text{CO})_2(\text{dmpe})_2$: an NMR study (M.D. Spencer and G.S. Girolami), 99

Synthesis, characterization and spectroscopic investigations of tin(IV) and organotin(IV) derivatives of 4-*aroyl*-5-pyrazolones. Crystal structure of *trans*-dimethylbis[1-phenyl-3-methyl-4-(4-bromobenzoyl)-pyrazolon-5-ato]tin(IV) (C. Pettinari, F. Marchetti, D. Leonesi, M. Rossi and F. Caruso), 123

Nuclear magnetic resonance

Molekülstruktur und Ladungsverteilung in metallorganischen Verbindungen der f-Elemente VII. Synthese und Unter-

suchungen von 1:1-Addukten zwischen Tris(cyclopentadienyl)Lanthanoid(III)-Verbindungen und Triethylphosphat (B. Kanellakopulos, R. Von Ammon, C. Apostolidis, E. Dornberger, R. Maier, J. Müller und X. Zhang), 193

Olefin polymerization

The influence of steric and electronic effects of substituents on the cyclopentadienyl ring on the behaviour of $(\text{CpR})_2\text{TiCl}_2$ and $(\text{CpR})\text{CpTiCl}_2/\text{Et}_3\text{Al}_2\text{Cl}_3$ catalysts in polymerization of ethene (P.C. Möhring, N. Vlachakis, N.E. Grimmer and N.J. Coville), 159

Organosilsesquioxane

Semipräparative Trennung gemischt substituierter Octa-(organylsilsesquioxane) mittels Normal-Phase-HPLC und ihre ^{29}Si -NMR-spektroskopische Untersuchung (B.J. Hendan und H.C. Marsmann), 33

Oxidative addition

Cyclometallated platinum(II) and platinum(IV) compounds of *N*-benzylidene-2-chlorobenzylamine. Crystal structure of $[\text{PtMe}(\text{PPh}_3)(\text{C}_6\text{H}_4\text{CH}=\text{NCH}_2\text{C}_6\text{H}_4\text{Cl-2})]$ (M. Crespo, X. Solans and M. Font-Bardía), 187

Palladium

Schiff bases derived from benzoylferrocene and their cyclopalladated derivatives. X-Ray crystal structure of $[\text{Pd}((\eta^5\text{-C}_5\text{H}_5)\text{-Fe}((\eta^5\text{-C}_5\text{H}_5)\text{-C}(\text{C}_6\text{H}_5)=\text{N-C}_6\text{H}_5))\text{Cl}(\text{PPh}_3)]$ (R. Bosque, C. López, J. Sales and X. Solans), 61

Selective intramolecular cleavage of the carbon-silicon bond by palladium salts (J.-M. Valk, J. Boersma and G. Van Koten), 213

Synthesis, characterization and structure of cyclopalladated ferrocenylketimines (S.Q. Huo, Y.J. Wu, C.X. Du, Y. Zhu, H.Z. Yuan and X.A. Mao), 139

Synthesis of $\text{M}^0(\eta^2\text{-dppf})_2$ (M = Pd, Pt; dppf = $\text{Fe}(\text{C}_5\text{H}_4\text{PPh}_2)_2$) and their reactions with $\text{Fe}_3(\mu_3\text{-S})_2(\text{CO})_9$ and elemental sulfur (Z.-G. Fang, P.M.N. Low, S.-C. Ng and T.S.A. Hor), 17

Palladium(II)

Structural and NMR spectroscopic characterization of $\eta^3\text{-Benzyl palladium(II)}$ complexes (G. Gatti, J.A. López, C. Mealli and A. Musco), 77

Peroxocomplex

Stereochemical pattern of phosphine oxidation by a peroxometalacyclic platinum complex. Evidence of an intramolecular process (G. Paiaro, L. Pandolfo, F. Morandini and S.D. Fioretto), 147

Phosphine complexes

Synthesis and characterization of new titanium(II) carbonyls of stoichiometry $\text{TiX}_2(\text{CO})_2(\text{dmpe})_2$: an NMR study (M.D. Spencer and G.S. Girolami), 99

Phosphine oxidation

Stereochemical pattern of phosphine oxidation by a peroxometalacyclic platinum complex. Evidence of an intramolecular process (G. Paiaro, L. Pandolfo, F. Morandini and S.D. Fioretto), 147

Photochemistry

Synthese und Charakterisierung von Poly(dichlorsilylen-co-dichlormethylen) und Poly(dimethylsilylen-co-2,2-propylen) (W. Habel, W. Haeusler und P. Sartori), 183

Platinum

Cyclometallated platinum(II) and platinum(IV) compounds of *N*-benzylidene-2-chlorobenzylamine. Crystal structure of $[\text{PtMe}(\text{PPh}_3)(\text{C}_6\text{H}_4\text{CH}=\text{NCH}_2\text{C}_6\text{H}_4\text{Cl-2})]$ (M. Crespo, X. Solans and M. Font-Bardía), 187

Stereochemical pattern of phosphine oxidation by a peroxometalacyclic platinum complex. Evidence of an intramolecular pro-

- cess (G. Paiaro, L. Pandolfo, F. Morandini and S.D. Fioretto), 147
- Synthesis of $M^0(\eta^2\text{-dppf})_2$ ($M = \text{Pd, Pt}$; $\text{dppf} = \text{Fe}(\text{C}_5\text{H}_4\text{PPh}_2)_2$) and their reactions with $\text{Fe}_3(\mu_3\text{-S})_2(\text{CO})_9$ and elemental sulfur (Z.-G. Fang, P.M.N. Low, S.-C. Ng and T.S.A. Hor), 17
- Poly(carbosilanes)**
- Synthese und Charakterisierung von Poly(dichlorsilylen-co-dichlormethylen) und Poly(dimethylsilylen-co-2,2-propylen) (W. Habel, W. Haeusler und P. Sartori), 183
- Polymerization**
- Group 4 metallocene complexes bearing cholestanol-derived substituents at the Cp-rings—their synthesis and use in propene polymerization catalysis (G. Erker and C. Mollenkopf), 173
- Polymers**
- Synthese und Charakterisierung von Poly(dichlorsilylen-co-dichlormethylen) und Poly(dimethylsilylen-co-2,2-propylen) (W. Habel, W. Haeusler und P. Sartori), 183
- Pyrazolonates**
- Synthesis, characterization and spectroscopic investigations of tin(IV) and organotin(IV) derivatives of 4-aryl-5-pyrazolonates. Crystal structure of *trans*-dimethylbis[1-phenyl-3-methyl-4-(4-bromobenzoyl)-pyrazolon-5-ato]tin(IV) (C. Pettinari, F. Marchetti, D. Leonesi, M. Rossi and F. Caruso), 123
- Rare earth metals**
- Synthesis and structure of $[(\text{C}_5\text{Me}_5)_2\text{Sm}(\text{THF})_2(\mu\text{-}\eta^1\text{:}\eta^1\text{-C}_2)]$ (W.J. Evans, G.W. Rabe and J.W. Ziller), 21
- Synthesis and X-ray crystal structure of nitrogen base adducts of decamethylsamarocene: $(\text{C}_5\text{Me}_5)_2\text{Sm}(\text{NH}_2\text{CMe}_3)$ and $(\text{C}_5\text{Me}_5)_2\text{Sm}(\text{N-MeIm})_2$ (W.J. Evans, G.W. Rabe and J.W. Ziller), 39
- Rearrangement**
- Synthesis and electrophilic reactivity of $[(\eta^5\text{-1-}N(\text{CH}_2\text{CH}_2\text{O})_3\text{Si-6-Me-C}_6\text{H}_5)\text{Mn}(\text{CO})_2\text{NO}]\text{BF}_4$ (S.S. Lee, E. Jeong and Y.K. Chung), 115
- Regioselectivity**
- Highly regio- and stereo-controlled hydroformylation of *ortho*-substituted ($\eta^6\text{-styrene}$)chromium complexes (J. Brocard, L. Pélineski, L. Maciejewski, S. Näili, H. Bricout, A. Mortreux and F. Petit), C1
- Ruthenium**
- Synthesis, X-ray crystal structure, and redox properties of $\text{CpRu}(\text{NO})(\text{mnt})$ (K. Yang, S.G. Bott and M.G. Richmond), 7
- Samarium**
- Synthesis and structure of $[(\text{C}_5\text{Me}_5)_2\text{Sm}(\text{THF})_2(\mu\text{-}\eta^1\text{:}\eta^1\text{-C}_2)]$ (W.J. Evans, G.W. Rabe and J.W. Ziller), 21
- Synthesis and X-ray crystal structure of nitrogen base adducts of decamethylsamarocene: $(\text{C}_5\text{Me}_5)_2\text{Sm}(\text{NH}_2\text{CMe}_3)$ and $(\text{C}_5\text{Me}_5)_2\text{Sm}(\text{N-MeIm})_2$ (W.J. Evans, G.W. Rabe and J.W. Ziller), 39
- Schiff bases**
- Schiff bases derived from benzoylferrocene and their cyclopalladated derivatives. X-Ray crystal structure of $[\text{Pd}(\eta^5\text{-C}_5\text{H}_5)\text{-Fe}(\eta^5\text{-C}_5\text{H}_5)\text{-C}(\text{C}_6\text{H}_5)=\text{N-C}_6\text{H}_5)]\text{Cl}(\text{PPh}_3)]$ (R. Bosque, C. López, J. Sales and X. Solans), 61
- Silatranyl**
- Synthesis and electrophilic reactivity of $[(\eta^5\text{-1-}N(\text{CH}_2\text{CH}_2\text{O})_3\text{Si-6-Me-C}_6\text{H}_5)\text{Mn}(\text{CO})_2\text{NO}]\text{BF}_4$ (S.S. Lee, E. Jeong and Y.K. Chung), 115
- Silicon**
- Reaktionen subvalenter Verbindungen des Siliciums mit alkylierten Aromaten (F. Huppmann, M. Noltemeyer und A. Meller), 217
- Selective intramolecular cleavage of the carbon–silicon bond by palladium salts (J.-M. Valk, J. Boersma and G. Van Koten), 213
- Semipräparative Trennung gemischt substituierter Octa-(organylsilsesquioxane) mittels Normal-Phase-HPLC und ihre ^{29}Si -NMR-spektroskopische Untersuchung (B.J. Hendan und H.C. Marsmann), 33
- Synthese und Charakterisierung von Poly(dichlorsilylen-co-dichlormethylen) und Poly(dimethylsilylen-co-2,2-propylen) (W. Habel, W. Haeusler und P. Sartori), 183
- Silicon NMR**
- Semipräparative Trennung gemischt substituierter Octa-(organylsilsesquioxane) mittels Normal-Phase-HPLC und ihre ^{29}Si -NMR-spektroskopische Untersuchung (B.J. Hendan und H.C. Marsmann), 33
- Siloxane**
- Semipräparative Trennung gemischt substituierter Octa-(organylsilsesquioxane) mittels Normal-Phase-HPLC und ihre ^{29}Si -NMR-spektroskopische Untersuchung (B.J. Hendan und H.C. Marsmann), 33
- Stereochemistry**
- Stereochemical pattern of phosphine oxidation by a peroxometalacyclic platinum complex. Evidence of an intramolecular process (G. Paiaro, L. Pandolfo, F. Morandini and S.D. Fioretto), 147
- Stereoselectivity**
- Highly regio- and stereo-controlled hydroformylation of *ortho*-substituted ($\eta^6\text{-styrene}$)chromium complexes (J. Brocard, L. Pélineski, L. Maciejewski, S. Näili, H. Bricout, A. Mortreux and F. Petit), C1
- Steric effects**
- The influence of steric and electronic effects of substituents on the cyclopentadienyl ring on the behaviour of $(\text{CpR})_2\text{TiCl}_2$ and $(\text{CpR})\text{CpTiCl}_2/\text{Et}_3\text{Al}_2\text{Cl}_3$ catalysts in polymerization of ethene (P.C. Möhring, N. Vlachakis, N.E. Grimmer and N.J. Coville), 159
- Structure**
- Reaktionen subvalenter Verbindungen des Siliciums mit alkylierten Aromaten (F. Huppmann, M. Noltemeyer und A. Meller), 217
- Substitution**
- The preparation of the mixed thiolato–isocyanide complexes *cis*- and *trans*- $(\eta^5\text{-C}_5\text{H}_5)\text{W}(\text{CO})_2(\text{SR})(\text{CNR}')$: the structure of *trans*- $(\eta^5\text{-C}_5\text{H}_5)\text{W}(\text{CO})_2(\text{S-4-C}_6\text{H}_4\text{Me})(\text{CNCMe}_3)$ (A. Shaver, R.C. Hynes and D. Trojansek), 1
- Sulfur**
- Synthesis of $M^0(\eta^2\text{-dppf})_2$ ($M = \text{Pd, Pt}$; $\text{dppf} = \text{Fe}(\text{C}_5\text{H}_4\text{PPh}_2)_2$) and their reactions with $\text{Fe}_3(\mu_3\text{-S})_2(\text{CO})_9$ and elemental sulfur (Z.-G. Fang, P.M.N. Low, S.-C. Ng and T.S.A. Hor), 17
- Synthesis**
- Reaktionen subvalenter Verbindungen des Siliciums mit alkylierten Aromaten (F. Huppmann, M. Noltemeyer und A. Meller), 217
- Tantalum**
- Oxo and thiophosphoramides of niobocene or tantalocene as organometallic ligands: synthesis of heterobimetallic complexes $[\text{Cp}_2\text{M}(\text{CO})(\mu, \eta^1\text{:}\eta^1\text{-PR}_2\text{X})\text{M}'\text{L}_n]$ ($M = \text{Nb}$ or Ta ; $X = \text{O}$ or S ; $M' = \text{Cr, Mo, W, Mn, Fe}$ or Sn) (S. Challet, M.M. Kubicki, J.-C. Leblanc, C. Moïse and B. Nuber), 47
- Thiolate**
- The preparation of the mixed thiolato–isocyanide complexes *cis*- and *trans*- $(\eta^5\text{-C}_5\text{H}_5)\text{W}(\text{CO})_2(\text{SR})(\text{CNR}')$: the structure of *trans*- $(\eta^5\text{-C}_5\text{H}_5)\text{W}(\text{CO})_2(\text{S-4-C}_6\text{H}_4\text{Me})(\text{CNCMe}_3)$ (A. Shaver, R.C. Hynes and D. Trojansek), 1

Tin

Synthesis, characterization and spectroscopic investigations of tin(IV) and organotin(IV) derivatives of 4-aryloxy-5-pyrazolones. Crystal structure of *trans*-dimethylbis[1-phenyl-3-methyl-4-(4-bromobenzoyl)-pyrazolon-5-ato]tin(IV) (C. Pettinari, F. Marchetti, D. Leonesi, M. Rossi and F. Caruso), 123

Titanium

Synthesis and characterization of new titanium(II) carbonyls of stoichiometry $TiX_2(CO)_2(dmpe)_2$: an NMR study (M.D. Spencer and G.S. Girolami), 99

The influence of steric and electronic effects of substituents on the cyclopentadienyl ring on the behaviour of $(CpR)_2TiCl_2$ and $(CpR)CpTiCl_2/Et_3Al_2Cl_3$ catalysts in polymerization of ethene (P.C. Möhring, N. Vlachakis, N.E. Grimmer and N.J. Coville), 159

Tungsten

Synthesis, characterization and crystal structures of $[Mo(CO)_5]_4$ -TPTA and $[W(CO)_5]_4$ -TPTA (TPTA = 1,4,8,11-tetrakis(methyldiphenylphosphino)-1,4,8,11-tetraazacyclotetradecane) (P. Planinić, H. Meider and D. Matković-Čalogović), 205

The preparation of the mixed thiolato-isocyanide complexes *cis*- and *trans*- $(\eta^5-C_5H_5)W(CO)_2(SR)(CNR')$: the structure of *trans*- $(\eta^5-C_5H_5)W(CO)_2(S-4-C_6H_4Me)(CNCMe_3)$ (A. Shaver, R.C. Hynes and D. Trojansek), 1

X-ray diffraction

Asymmetric diarsines: Synthesis of dimeric pentamethylcyclopentadienylchloroarsine, dimeric pentamethylcyclopentadienyl(methyl)arsine and the crystal structure of dimeric pentamethylcyclopentadienyl(methyl)arsine (X.-W. Li, J. Lorberth and K. Harms), 229

X-ray structural analysis

Redox behaviour and reactions of $(PhCH_2)_3Sb$; syntheses and structures of $[(PhCH_2)_3SbMe]I$ and $[(PhCH_2)_3SbMe]_3Sb_3I_{12}$ (H.J. Breunig, K.H. Ebert, R. Kaller, Y. Mourad, A. Atmani and Y. Mugnier), 167

X-ray structure

Cyclometallated platinum(II) and platinum(IV) compounds of N-benzylidene-2-chlorobenzylamine. Crystal structure of $[PtMe(PPh_3)(C_6H_4CH=NCH_2C_6H_4Cl-2)]$ (M. Crespo, X. Solans and M. Font-Bardía), 187

Mercury coordination to Exo-dithio-7,8-dicarba-*nido*-undecaborate derivatives (F. Teixidor, J.A. Ayllón, C. Viñas, R. Kivekäs, R. Sillanpää and J. Casabó), 153

Schiff bases derived from benzoylferrocene and their cyclopalladated derivatives. X-Ray crystal structure of $[Pd((\eta^5-C_5H_5)Fe[(\eta^5-C_5H_5)-C(C_6H_5)=N-C_6H_5])Cl(PPh_3)]$ (R. Bosque, C. López, J. Sales and X. Solans), 61

Structural and NMR spectroscopic characterization of η^3 -Benzyl palladium(II) complexes (G. Gatti, J.A. López, C. Mealli and A. Musco), 77

Synthesis, characterization and spectroscopic investigations of tin(IV) and organotin(IV) derivatives of 4-aryloxy-5-pyrazolones. Crystal structure of *trans*-dimethylbis[1-phenyl-3-methyl-4-(4-bromobenzoyl)-pyrazolon-5-ato]tin(IV) (C. Pettinari, F. Marchetti, D. Leonesi, M. Rossi and F. Caruso), 123

X-ray structures

Oxo and thiophosphoramides of niobocene or tantalocene as organometallic ligands: synthesis of heterobimetallic complexes $[Cp_2M(CO)(\mu, \eta^1: \eta^1-PR_2X)M'L_n]$ (M = Nb or Ta; X = O or S; M' = Cr, Mo, W, Mn, Fe or Sn) (S. Challet, M.M. Kubicki, J.-C. Leblanc, C. Moïse and B. Nuber), 47

Ytterbium

Dehydrogenation of organolanthanide alkoxides and X-ray crystal structures of the reaction product $\{[(C_5H_5)_2Ln(\mu-O(Me)C=CHCH_3)_2]\}$ (Ln = Dy, Yb) (Z. Wu, Z. Xu, X. You, X. Zhou and X. Huang), 107

Zirconium

Group 4 metallocene complexes bearing cholesterol-derived substituents at the Cp-rings—their synthesis and use in propene polymerization catalysis (G. Erker and C. Mollenkopf), 173

Book reviews

Gmelin Handbook of Inorganic and Organometallic Chemistry, 8th Edition, Ni, Organonickel Compounds, Supplement Volume 1 (G.J. Leigh), C6

Gmelin Handbook of Inorganic and Organometallic Chemistry, 8th Edition, Os, Organoosmium Compounds, B6 (G.J. Leigh), C6

Gmelin Handbook of Inorganic and Organometallic Chemistry, 8th Edition, Os, Organoosmium Compounds, A2 (G.J. Leigh), C6

The Chemistry of Organophosphorus Compounds, Volume 3: Phosphonium Salts, Ylides and Phosphoranes, Frank R. Hartley (ed.) (J.F. Nixon), C6

Handbook on Metals in Clinical and Analytical Chemistry, H.G. Seiler, A. Sigel, and H. Sigel (eds.) (G.J. Leigh), C6