



Subject Index of Volume 517

Acetylide complex

Preparation and some properties of Mn(I) metallocenylacetylide and the related complexes (M. Sato and E. Mogi), 1

Acyl

Chemistry of diamino-ligated methylpalladium(II) alkoxides and aryloxides. (Part II): methoxide formation and carbonylation reactions (G.M. Kapteijn, A. Dervisi, M.J. Verhoef, M.A.F.H. Van den Broek, D.M. Grove and G. Van Koten), 123

Alkoxide

Synthesis and reactivity of titanocene and zirconocene triflates (G.A. Luinstra), 209

Alkoxides

Chemistry of diamino-ligated methylpalladium(II) alkoxides and aryloxides. (Part II): methoxide formation and carbonylation reactions (G.M. Kapteijn, A. Dervisi, M.J. Verhoef, M.A.F.H. Van den Broek, D.M. Grove and G. Van Koten), 123

Alkyl

Synthesis and reactivity of titanocene and zirconocene triflates (G.A. Luinstra), 209

Alkyne

Rhenium carbonyls containing pyridyl ligands incorporating an alkyne entity (J.T. Lin, S.-S. Sun, J.J. Wu, Y.-C. Liaw and K.-J. Lin), 217

Alkyne complexes

Alkyne complexes of copper(I) (1,1,1,5,5-hexafluoro-2,4-penta-nedionato): syntheses and characterization of (η^2 -bis(trimethylsilyl)acetylene) copper(I) (hfac), (μ - η^2 -bis(trimethylsilyl)-acetylene) bis(copper(I)) (hfac) and a series of (η^2 -alkyne) Cu(hfac) complexes (P. Doppelt and T.H. Baum), 53

Allylic aminoesters

Etude de la régiosélectivité de l'action des organozinciques α -insaturés sur les α -iminoesters issus de 2-amino ou 3-aminoalcohols. III. Synthèse de 3-amino-1,5 (ou 1,6)-diols, cyclisation en 3-prop-1-énylimorpholines et en 5-s-butyl-2,3-dihydro-6H-1,4-oxazines substituées (G. Courtois et L. Miginiac), 37

α -Amino carboxylates

Metal complexes of biologically important ligands, LXXXVII. α -Amino carboxylate complexes of palladium(II), iridium(III) and ruthenium(II) from chloro-bridged ortho-metallated metal compounds and $[(OC)_3Ru(Cl)(\mu-Cl)]_2$ (R. Urban, R. Krämer, S. Mihan, K. Polborn, B. Wagner and W. Beck), 191

Aminodiols

Etude de la régiosélectivité de l'action des organozinciques α -insaturés sur les α -iminoesters issus de 2-amino ou 3-aminoalcohols. III. Synthèse de 3-amino-1,5 (ou 1,6)-diols, cyclisation en 3-prop-1-énylimorpholines et en 5-s-butyl-2,3-dihydro-6H-1,4-oxazines substituées (G. Courtois et L. Miginiac), 37

Anthracene

Synthesis, properties and X-ray crystal structure of bis(decamethyl-lanthanocene)-anthracene (K.-H. Thiele, S. Bambirra, H. Schumann and H. Hemling), 161

Arsenic

Oxidation of $(AsPh_2)_2E$ ($E = O$ or S): supramolecular hydrogen-bonded self-assembly of an unusual tetrานuclear adduct and crystal structure of $[AsPh_2(O)OH \cdot AsPh_2(S)OH]_2$ (L. Silaghi-Dumitrescu, M.N. Gibbons, I. Silaghi-Dumitrescu, J. Zukerman-Schpector, I. Haiduc and D.B. Sowerby), 101

Arsinic acid

Oxidation of $(AsPh_2)_2E$ ($E = O$ or S): supramolecular hydrogen-bonded self-assembly of an unusual tetrานuclear adduct and crystal structure of $[AsPh_2(O)OH \cdot AsPh_2(S)OH]_2$ (L. Silaghi-Dumitrescu, M.N. Gibbons, I. Silaghi-Dumitrescu, J. Zukerman-Schpector, I. Haiduc and D.B. Sowerby), 101

Arylation

Highly stereoselective palladium-catalyzed coupling reactions of captodative olefins acetylvinyl arenecarboxylates (L. Villar, J.P. Bullock, M.M. Khan, A. Nagarajan, R.W. Bates, S.G. Bott, G. Zepeda, F. Delgado and J. Tamariz), 9

Aryloxides

Chemistry of diamino-ligated methylpalladium(II) alkoxides and aryloxides. (Part II): methoxide formation and carbonylation reactions (G.M. Kapteijn, A. Dervisi, M.J. Verhoef, M.A.F.H. Van den Broek, D.M. Grove and G. Van Koten), 123

Azabutadienes

Cycloaddition reactions of the manganese vinylidene $Cp'(CO)_2Mn=C(H)R$, carbyne $[Cp'(CO)_2Mn=CCH_2R]^+$, and anionic carbene $[Cp'(CO)_2Mn=C(OEt)CHR]^-$ ($R = H, Me$) complexes with 1,4-diphenyl-1-azabutadiene (C. Gimenez, N. Lugan, R. Mathieu and G.L. Geoffroy), 133

Binuclear

The role of μ -hydroxy and μ -alkoxy binuclear complexes in tin(IV)-catalysed urethane formation (R.P. Houghton and A.W. Mulvaney), 107

Biologically-important ligands

Metal complexes of biologically important ligands, LXXXVII. α -Amino carboxylate complexes of palladium(II), iridium(III) and ruthenium(II) from chloro-bridged ortho-metallated metal compounds and $[(OC)_3Ru(Cl)(\mu-Cl)]_2$ (R. Urban, R. Krämer, S. Mihan, K. Polborn, B. Wagner and W. Beck), 191

π -Bonding

Synthesis, properties and X-ray crystal structure of bis(decamethyl-lanthanocene)-anthracene (K.-H. Thiele, S. Bambirra, H. Schumann and H. Hemling), 161

Boron

Stannacyclohexanes and spiro-tin compounds with a stannole or a stannolene group (B. Wrackmeyer, U. Klaus, W. Milius, E. Klaus and T. Schaller), 235

Carbene

Cycloaddition reactions of the manganese vinylidene $Cp'(CO)_2Mn=C(H)R$, carbyne $[Cp'(CO)_2Mn=CCH_2R]^+$, and anionic carbene $[Cp'(CO)_2Mn=C(OEt)CHR]^-$ ($R = H, Me$) complexes with

1,4-diphenyl-1-azabutadiene (C. Gimenez, N. Lughan, R. Mathieu and G.L. Geoffroy), 133

Carbon 13

Alkyne complexes of copper(I) (1,1,1,5,5-hexafluoro-2,4-penta-nedionato): syntheses and characterization of (η^2 -bis(trimethylsilyl)acetylene) copper(I) (hfac), (μ - η^2 -bis(trimethylsilyl)-acetylene) bis(copper(I) (hfac)) and a series of (η^2 -alkyne) Cu(hfac) complexes (P. Doppelt and T.H. Baum), 53

Carbonyl

Molybdenum and tungsten complexes containing the 1,2-di-*tert*-butylcyclopentadienyl ligand (R.P. Hughes, J.R. Lomprey, A.L. Rheingold and G.P.A. Yap), 63

Preparation and structures of tetrameric and dimeric manganese carbonyl complexes incorporating thiosalicylato ligands (C.V. Depree, L. Main, B.K. Nicholson and K. Roberts), 201

Rhenium carbonyls containing pyridyl ligands incorporating an alkyne entity (J.T. Lin, S.-S. Sun, J.J. Wu, Y.-C. Liaw and K.-J. Lin), 217

Some pyridine-2-thiolato and 6-methylpyridine-2-thiolato complexes of manganese: crystal structure of $[\text{Mn}_2(\mu\text{-pyS})_2(\text{CO})_6]$ (pyS = pyridine-2-thiolato ligand) (S.E. Kabir, M.M. Karim, K. Kundu, S.M.B. Ullah and K.I. Hardcastle), 155

Carbylation

Chemistry of diamino-ligated methylpalladium(II) alkoxides and aryloxides. (Part II): methoxide formation and carbonylation reactions (G.M. Kapteijn, A. Dervisi, M.J. Verhoef, M.A.F.H. Van den Broek, D.M. Grove and G. Van Koten), 123

Carbyne

Cycloaddition reactions of the manganese vinylidene $\text{Cp}'(\text{CO})_2\text{Mn}=\text{C}(\text{H})\text{R}$, carbyne $[\text{Cp}'(\text{CO})_2\text{Mn}\equiv\text{CCH}_2\text{R}]^+$, and anionic carbenes $[\text{Cp}'(\text{CO})_2\text{Mn}=\text{C}(\text{OEt})\text{CHR}]^-$ ($\text{R} = \text{H}, \text{Me}$) complexes with 1,4-diphenyl-1-azabutadiene (C. Gimenez, N. Lughan, R. Mathieu and G.L. Geoffroy), 133

Chemical vapor deposition

Alkyne complexes of copper(I) (1,1,1,5,5-hexafluoro-2,4-penta-nedionato): syntheses and characterization of (η^2 -bis(trimethylsilyl)acetylene) copper(I) (hfac), (μ - η^2 -bis(trimethylsilyl)-acetylene) bis(copper(I) (hfac)) and a series of (η^2 -alkyne) Cu(hfac) complexes (P. Doppelt and T.H. Baum), 53

Chromium

Addition of $\text{Cr}(\text{CO})_5$ to the $\text{M}(\eta^2\text{-S}_2)$ moiety of $\text{Cp}_2\text{M}(\text{S}_2)\text{H}$ ($\text{Cp}' = {}^t\text{BuC}_5\text{H}_4$; $\text{M} = \text{Ta}$; $\text{Cp}'' = {}^t\text{C}_5\text{Me}_4\text{Et}$; $\text{M} = \text{Nb}$) and crystal structures of $\text{Cp}'_2\text{TaS}_2\text{H} \cdot [\text{Cr}(\text{CO})_5]_n$ ($n = 1, 2$) (H. Brunner, G. Gehart, J.-C. Leblanc, C. Moise, B. Nuber, B. Stubenhofer, F. Volpati and J. Wachter), 47

Cis-trans influence

Trans influence in platinum(II)i complexes. Phenylation of Pt(II) dialkylsulfide complexes by BPh_4^- and SnPh_3H . Crystal structures of two polymorphs of *trans*-chlorobis(dimethylsulfide)-(phenyl)platinum(II) (P. Kapoor, V.Yu. Kukushkin, K. Lövqvist and Å. Oskarsson), 71

Cluster

Preparation and structures of tetrameric and dimeric manganese carbonyl complexes incorporating thiosalicylato ligands (C.V. Depree, L. Main, B.K. Nicholson and K. Roberts), 201

Competition between ligands

The crystal structure of the salts $[\text{Hthiamine}][\text{SnMe}_2(\text{H}_2\text{O})\text{Cl}_3]\text{Cl}$ and $[\text{Hthiamine}][\text{SnPh}_2\text{Cl}_4]\text{H}_2\text{O}$: competition between water and chloride for coordination to diorganotin dihalides (J.S. Casas, A. Castañeiras, M.D. Couce, G. Martínez, J. Sordo and J.M. Varela), 165

Copper

Alkyne complexes of copper(I) (1,1,1,5,5-hexafluoro-2,4-penta-nedionato): syntheses and characterization of (η^2 -bis(trimethyl-

silyl)acetylene) copper(I) (hfac), (μ - η^2 -bis(trimethylsilyl)-acetylene) bis(copper(I) (hfac)) and a series of (η^2 -alkyne) Cu(hfac) complexes (P. Doppelt and T.H. Baum), 53

Coupling reactions

Highly stereoselective palladium-catalyzed coupling reactions of captodative olefins acetylvinyl arenecarboxylates (L. Villar, J.P. Bullock, M.M. Khan, A. Nagarajan, R.W. Bates, S.G. Bott, G. Zepeda, F. Delgado and J. Tamariz), 9

Crystal structure

Alkyne complexes of copper(I) (1,1,1,5,5-hexafluoro-2,4-penta-nedionato): syntheses and characterization of (η^2 -bis(trimethylsilyl)acetylene) copper(I) (hfac), (μ - η^2 -bis(trimethylsilyl)-acetylene) bis(copper(I) (hfac)) and a series of (η^2 -alkyne) Cu(hfac) complexes (P. Doppelt and T.H. Baum), 53

Oxidation of $[\text{AsPh}_2]_2\text{E}$ ($\text{E} = \text{O}$ or S): supramolecular hydrogen-bonded self-assembly of an unusual tetrานuclear adduct and crystal structure of $[\text{AsPh}_2(\text{O})\text{OH} \cdot \text{AsPh}_2(\text{S})\text{OH}]_2$ (L. Silaghi-Dumitrescu, M.N. Gibbons, I. Silaghi-Dumitrescu, J. Zukerman-Schpector, I. Haiduc and D.B. Sowerby), 101

Preparation and structures of tetrameric and dimeric manganese carbonyl complexes incorporating thiosalicylato ligands (C.V. Depree, L. Main, B.K. Nicholson and K. Roberts), 201

Some pyridine-2-thiolato and 6-methylpyridine-2-thiolato complexes of manganese: crystal structure of $[\text{Mn}_2(\mu\text{-pyS})_2(\text{CO})_6]$ (pyS = pyridine-2-thiolato ligand) (S.E. Kabir, M.M. Karim, K. Kundu, S.M.B. Ullah and K.I. Hardcastle), 155

Some reactions of 2,4-diphosphaplatinacycles and the crystal structures of $[\text{Pt}(\text{CH}_2\text{PPh}_2\text{CH}_2\text{PPh}_2)(\text{PPh}_3)(\text{CH}_2\text{Cl})]\text{PF}_6$, $[\text{Pt}(\text{CH}_2\text{PPh}_2\text{CH}_2\text{PPh}_2)_2]\text{PF}_6$, and $[\text{Pt}(\text{CH}_2\text{PPh}_2\text{CH}_2\text{PPh}_2)(\text{PPh}_3)(\text{OCMe}_2)]\text{PF}_6$ (T. Ghaffar, A. Kieszkiewicz, S.C. Nyburg and A.W. Parkins), 227

The photochemical reactivity of triosmium cluster complexes containing 2-mercaptopypyridine ligands: the crystal and molecular structures of the linked clusters $[(\text{Os}_3\text{H}(\text{CO})_{10})_2(\mu\text{-SC}_5\text{H}_3\text{NCO}_2)]$ and $[(\text{Os}_3\text{H}(\text{CO})_9)(\mu\text{-SC}_5\text{H}_3\text{NCO}_2)(\text{Os}_3\text{H}(\text{CO})_{10})]$ (E.W. Ainscough, A.M. Brodie, R.K. Coll, T.G. Kotch, A.J. Lees, A.J.A. Mair and J.M. Waters), 173

The redox behaviour of some bis-ferrocenyl compounds: crystal and molecular structures of diferoenylmethane and diferoenylmethanol (G. Ferguson, C. Glidewell, G. Opronolla, C.M. Zarkaria and P. Zanello), 183

Trans influence in platinum(II)i complexes. Phenylation of Pt(II) dialkylsulfide complexes by BPh_4^- and SnPh_3H . Crystal structures of two polymorphs of *trans*-chlorobis(dimethylsulfide)-(phenyl)platinum(II) (P. Kapoor, V.Yu. Kukushkin, K. Lövqvist and Å. Oskarsson), 71

Über Metallalkyl- und Arylverbindungen LV. Cyclopentadienyl- und Indenyl-Verbindungen des Kaliums und Natriums (V. Jordan, U. Behrens, F. Olbrich und E. Weiss), 81

Cubanes

Organometallic alkylthiolate-bridged manganese cubanes (M. Reyes-Lezama, R.A. Toscano and N. Zúñiga-Villarreal), 19

Cyclization

Etude de la régiosélectivité de l'action des organozinciques α -insaturés sur les α -iminoesters issus de 2-amino ou 3-aminoalcools. III. Synthèse de 3-amino-1,5 (ou 1,6)-diols, cyclisation en 3-prop-1-énymorpholines et en 5-s-butyl-2,3-dihydro-6*H*-1,4-oxazines substituées (G. Courtois et L. Miginac), 37

Cycloadditions

Cycloaddition reactions of the manganese vinylidene $\text{Cp}'(\text{CO})_2\text{Mn}=\text{C}(\text{H})\text{R}$, carbyne $[\text{Cp}'(\text{CO})_2\text{Mn}\equiv\text{CCH}_2\text{R}]^+$, and anionic carbenes $[\text{Cp}'(\text{CO})_2\text{Mn}=\text{C}(\text{OEt})\text{CHR}]^-$ ($\text{R} = \text{H}, \text{Me}$) complexes with 1,4-diphenyl-1-azabutadiene (C. Gimenez, N. Lughan, R. Mathieu and G.L. Geoffroy), 133

Cyclopentadienyl carbanions

Über Metallalkyl- und Arylverbindungen LV. Cyclopentadienyl- und Indenyl-Verbindungen des Kaliums und Natriums (V. Jordan, U. Behrens, F. Olbrich und E. Weiss), 81

Cyclopentadienyls

Molybdenum and tungsten complexes containing the 1,2-di-*tert*-butylcyclopentadienyl ligand (R.P. Hughes, J.R. Lomprey, A.L. Rheingold and G.P.A. Yap), 63

Synthesis and molecular structures of titanocene, zirconocene, and uranocene dichlorides containing 1,2-di-*tert*-butylcyclopentadienyl ligands (R.P. Hughes, J.R. Lomprey, A.L. Rheingold, B.S. Haggerty and G.P.A. Yap), 89

Diamino

Chemistry of diamino-ligated methylpalladium(II) alkoxides and aryloxides. (Part II): methoxide formation and carbonylation reactions (G.M. Kapteijn, A. Dervisi, M.J. Verhoef, M.A.F.H. Van den Brock, D.M. Grove and G. Van Koten), 123

2,3-dihydro-1,3-oxazines

Etude de la régiosélectivité de l'action des organozinciques α -insaturés sur les α -iminoesters issus de 2-amino ou 3-aminoalcools. III. Synthèse de 3-amino-1,5 (ou 1,6)-diols, cyclisation en 3-prop-1-énymorpholines et en 5-s-butyl-2,3-dihydro-6H-1,4-oxazines substituées (G. Courtois et L. Miginiac), 37

Dimethyltin compounds

The crystal structure of the salts [Hthiamine][SnMe₂(H₂O)Cl₃]Cl and [Hthiamine][SnPh₂Cl₄]H₂O: competition between water and chloride for coordination to diorganotin dihalides (J.S. Casas, A. Castiñeiras, M.D. Couce, G. Martínez, J. Sordo and J.M. Varela), 165

Distannoxane

The role of μ -hydroxy and μ -alkoxy binuclear complexes in tin(IV)-catalysed urethane formation (R.P. Houghton and A.W. Mulvaney), 107

Disulfide ligand

Addition of Cr(CO)₅ to the M(η^2 -S₂) moiety of Cp₂M(S₂)H (Cp' = ¹BuC₅H₄: M = Ta; Cp' = C₅Me₄Et: M = Nb) and crystal structures of Cp'₂TaS₂H · [Cr(CO)₅]_n (n = 1, 2) (H. Brunner, G. Gehart, J.-C. Leblanc, C. Moise, B. Nuber, B. Stubenhofer, F. Volpato and J. Wachter), 47

Electrochemistry

The redox behaviour of some bis-ferrocenyl compounds: crystal and molecular structures of diferrocenylmethane and diferrocenylmethanol (G. Ferguson, C. Glidewell, G. Opronolla, C.M. Zarkaria and P. Zanello), 183

Ferrocene

Preparation and some properties of Mn(I) metallocenylacetylides and the related complexes (M. Sato and E. Mogi), 1

The redox behaviour of some bis-ferrocenyl compounds: crystal and molecular structures of diferrocenylmethane and diferrocenylmethanol (G. Ferguson, C. Glidewell, G. Opronolla, C.M. Zarkaria and P. Zanello), 183

Fluxional molecules

Synthesis and molecular structures of titanocene, zirconocene, and uranocene dichlorides containing 1,2-di-*tert*-butylcyclopentadienyl ligands (R.P. Hughes, J.R. Lomprey, A.L. Rheingold, B.S. Haggerty and G.P.A. Yap), 89

Hydrogen bonding

Oxidation of (AsPh₂)₂E (E = O or S); supramolecular hydrogen-bonded self-assembly of an unusual tetrานuclear adduct and crystal structure of [AsPh₂(O)OH · AsPh₂(S)OH]₂ (L. Silaghi-Dumitrescu, M.N. Gibbons, I. Silaghi-Dumitrescu, J. Zukerman-Schpector, I. Haiduc and D.B. Sowerby), 101

Indenyl carbanions

Über Metallalkyl- und Arylverbindungen LV. Cyclopentadienyl- und Indenyl-Verbindungen des Kaliums und Natriums (V. Jordan, U. Behrens, F. Olbrich und E. Weiss), 81

Iridium

Metal complexes of biologically important ligands, LXXXVII. α -Amino carboxylate complexes of palladium(II), iridium(III) and ruthenium(II) from chloro-bridged ortho-metallated metal compounds and [(OC)₃Ru(Cl)(μ -Cl)]₂ (R. Urban, R. Krämer, S. Mihan, K. Polborn, B. Wagner and W. Beck), 191

Iron

The redox behaviour of some bis-ferrocenyl compounds: crystal and molecular structures of diferrocenylmethane and diferrocenylmethanol (G. Ferguson, C. Glidewell, G. Opronolla, C.M. Zarkaria and P. Zanello), 183

Lanthanocene

Synthesis, properties and X-ray crystal structure of bis(decamethyllanthanocene)-anthracene (K.-H. Thiele, S. Bambirra, H. Schumann and H. Hemling), 161

Manganese

Cycloaddition reactions of the manganese vinylidene Cp'(CO)₂Mn = C=C(H)R, carbyne [Cp'(CO)₂Mn=CCH₂R]⁺, and anionic carbene [Cp'(CO)₂Mn=C(OEt)CHR]⁻ (R = H, Me) complexes with 1,4-diphenyl-1-azabutadiene (C. Gimenez, N. Lughan, R. Mathieu and G.L. Geoffroy), 133

Organometallic alkylthiolate-bridged manganese cubanes (M. Reyes-Lezama, R.A. Toscano and N. Zúñiga-Villarreal), 19

Preparation and structures of tetrameric and dimeric manganese carbonyl complexes incorporating thiosalicylato ligands (C.V. Depree, L. Main, B.K. Nicholson and K. Roberts), 201

Some pyridine-2-thiolato and 6-methylpyridine-2-thiolato complexes of manganese: crystal structure of [Mn₂(μ -pyS)₂(CO)₆] (pyS = pyridine-2-thiolato ligand) (S.E. Kabir, M.M. Karim, K. Kundu, S.M.B. Ullah and K.I. Hardcastle), 155

Manganese complex

Preparation and some properties of Mn(I) metallocenylacetylides and the related complexes (M. Sato and E. Mogi), 1

Metallacycle

Preparation and some properties of Mn(I) metallocenylacetylides and the related complexes (M. Sato and E. Mogi), 1

Metallocenes

Molecular structure of chlororuthenocenium⁺BF₄⁻ and chlorobisruthenocenium⁺BF₄⁻ salts (M. Watanabe, I. Motoyama, M. Shimoji and H. Sano), 115

Synthesis and reactivity of titanocene and zirconocene triflates (G.A. Luinstra), 209

Metallocone

Synthesis, properties and X-ray crystal structure of bis(decamethyllanthanocene)-anthracene (K.-H. Thiele, S. Bambirra, H. Schumann and H. Hemling), 161

Metallocycle

Some reactions of 2,4-diphosphaplatinocycles and the crystal structures of [Pt(CH₂PPh₂CH₂PPh₂)(PPh₃)(CH₂Cl)]PF₆, [Pt(CH₂PPh₂CH₂PPh₂)₂](PF₆)₂, and [Pt(CH₂PPh₂CH₂PPh₂)(PPh₃)(OCMe₂)](PF₆)₂ (T. Ghaffar, A. Kieszkiewicz, S.C. Nyburg and A.W. Parkins), 227

Methoxycarbonyl

Chemistry of diamino-ligated methylpalladium(II) alkoxides and aryloxides. (Part II): methoxide formation and carbonylation reactions (G.M. Kapteijn, A. Dervisi, M.J. Verhoef, M.A.F.H. Van den Brock, D.M. Grove and G. Van Koten), 123

Molybdenum

Addition of Cr(CO)₅ to the M(η^2 -S₂) moiety of Cp₂M(S₂)H (Cp' = ¹BuC₅H₄: M = Ta; Cp' = C₅Me₄Et: M = Nb) and crystal structures of Cp'₂TaS₂H · [Cr(CO)₅]_n (n = 1, 2) (H. Brunner, G. Gehart, J.-C. Leblanc, C. Moise, B. Nuber, B. Stubenhofer, F. Volpato and J. Wachter), 47

Molybdenum and tungsten complexes containing the 1,2-di-*tert*-butylcyclopentadienyl ligand (R.P. Hughes, J.R. Lomprey, A.L. Rheingold and G.P.A. Yap), 63

Morpholines

Etude de la régiosélectivité de l'action des organozinciques α -insaturés sur les α -iminoesters issus de 2-amino ou 3-aminoalcools. III. Synthèse de 3-amino-1,5 (ou 1,6)-diols, cyclisation en 3-prop-1-énymorpholines et en 5-s-butyl-2,3-dihydro-6H-1,4-oxazines substituées (G. Courtois et L. Miginiac), 37

Niobium

Addition of $\text{Cr}(\text{CO})_5$ to the $\text{M}(\eta^2\text{-S}_2)$ moiety of $\text{Cp}_2\text{M}(\text{S}_2)\text{H}$ ($\text{Cp}' = {}^t\text{BuC}_5\text{H}_4$; $\text{M} = \text{Ta}$; $\text{Cp}'' = \text{C}_5\text{Me}_4\text{Et}$; $\text{M} = \text{Nb}$) and crystal structures of $\text{Cp}'_2\text{TaS}_2\text{H} \cdot [\text{Cr}(\text{CO})_5]_n$, ($n = 1, 2$) (H. Brunner, G. Gehart, J.-C. Leblanc, C. Moise, B. Nuber, B. Stubenhofer, F. Volpati and J. Wachter), 47

NMR

Alkyne complexes of copper(I) (1,1,1,5,5-hexafluoro-2,4-penta-nedionato): syntheses and characterization of (η^2 -bis(trimethylsilyl)acetylene) copper(I) (hfac), (μ - η^2 -bis(trimethylsilyl)-acetylene) bis(copper(I) (hfac)) and a series of (η^2 -alkyne) Cu(hfac) complexes (P. Doppelt and T.H. Baum), 53

Stannacyclohexanes and spiro-tin compounds with a stannole or a stannolene group (B. Wrackmeyer, U. Klaus, W. Milius, E. Klaus and T. Schaller), 235

Triorganotin(IV) derivatives of several 4-acyl-5-pyrazolonato ligands: synthesis, spectroscopic characterization and behavior in solution. Crystal structure of aquotrimethyl(4-p-methoxybenzoyl-1-phenyl-3-methyl-pyrazolon-5-ato)tin(IV) (F. Marchetti, C. Pettinari, A. Cingolani, G.G. Lobbia, A. Cassetta and L. Barba), 141

Olefins

Highly stereoselective palladium-catalyzed coupling reactions of caprotative olefins acetylvinyl arenecarboxylates (L. Villar, J.P. Bullock, M.M. Khan, A. Nagarajan, R.W. Bates, S.G. Bott, G. Zepeda, F. Delgado and J. Tamariz), 9

Organic synthesis

Etude de la régiosélectivité de l'action des organozinciques α -insaturés sur les α -iminoesters issus de 2-amino ou 3-aminoalcools. III. Synthèse de 3-amino-1,5 (ou 1,6)-diols, cyclisation en 3-prop-1-énymorpholines et en 5-s-butyl-2,3-dihydro-6H-1,4-oxazines substituées (G. Courtois et L. Miginiac), 37

Organopotassium compounds

Über Metallalkyl- und Arylverbindungen LV. Cyclopentadienyl- und Indenyl-Verbindungen des Kaliums und Natriums (V. Jordan, U. Behrens, F. Olbrich und E. Weiss), 81

Organosodium compounds

Über Metallalkyl- und Arylverbindungen LV. Cyclopentadienyl- und Indenyl-Verbindungen des Kaliums und Natriums (V. Jordan, U. Behrens, F. Olbrich und E. Weiss), 81

Organostannanes

Highly stereoselective palladium-catalyzed coupling reactions of caprotative olefins acetylvinyl arenecarboxylates (L. Villar, J.P. Bullock, M.M. Khan, A. Nagarajan, R.W. Bates, S.G. Bott, G. Zepeda, F. Delgado and J. Tamariz), 9

Orthometallation

Metallation in connection with cross-coupling reactions. Coupling of hindered aryls for the synthesis of 4-phenylpyridines as part of *Streptonigrin* and *Lavendamycin* analogues (A. Godard, P. Rocca, V. Pomel, L. Thomas-dit-Dumont, J.C. Rovera, J.F. Thaburet, F. Marsais and G. Quéguiner), 25

Osmium cluster

The photochemical reactivity of triosmium cluster complexes containing 2-mercaptopypyridine ligands: the crystal and molecular structures of the linked clusters $[(\text{Os}_3\text{H}(\text{CO})_{10})_2(\mu\text{-SC}_5\text{H}_3\text{NCO}_2)]$ and $[(\text{Os}_3\text{H}(\text{CO})_9)(\mu\text{-SC}_5\text{H}_3\text{NCO}_2)(\text{Os}_3\text{H}(\text{CO})_{10})]$ (E.W. Ainscough, A.M. Brodie, R.K. Coll, T.G. Kotch, A.J. Lees, A.J.A. Mair and J.M. Waters), 173

Oxide

Molybdenum and tungsten complexes containing the 1,2-di-*tert*-butylcyclopentadienyl ligand (R.P. Hughes, J.R. Lomprey, A.L. Rheingold and G.P.A. Yap), 63

Oxygen-bridged

The role of μ -hydroxy and μ -alkoxy binuclear complexes in tin(IV)-catalysed urethane formation (R.P. Houghton and A.W. Mulvaney), 107

Palladium

Chemistry of diamino-ligated methylpalladium(II) alkoxides and aryloxides. (Part II): methoxide formation and carbonylation reactions (G.M. Kapteijn, A. Dervisi, M.J. Verhoef, M.A.F.H. Van den Broek, D.M. Grove and G. Van Koten), 123

Highly stereoselective palladium-catalyzed coupling reactions of caprotative olefins acetylvinyl arenecarboxylates (L. Villar, J.P. Bullock, M.M. Khan, A. Nagarajan, R.W. Bates, S.G. Bott, G. Zepeda, F. Delgado and J. Tamariz), 9

Metal complexes of biologically important ligands, LXXXVII. α -Amino carboxylate complexes of palladium(II), iridium(III) and ruthenium(II) from chloro-bridged ortho-metallated metal compounds and $[(\text{OC})_3\text{Ru}(\text{Cl})(\mu\text{-Cl})_2$] (R. Urban, R. Krämer, S. Mihan, K. Polborn, B. Wagner and W. Beck), 191

Metallation in connection with cross-coupling reactions. Coupling of hindered aryls for the synthesis of 4-phenylpyridines as part of *Streptonigrin* and *Lavendamycin* analogues (A. Godard, P. Rocca, V. Pomel, L. Thomas-dit-Dumont, J.C. Rovera, J.F. Thaburet, F. Marsais and G. Quéguiner), 25

Pentadienyl complexes

Organometallic alkylthiolate-bridged manganese cubanes (M. Reyes-Lezama, R.A. Toscano and N. Zúñiga-Villarreal), 19

Phenylation

Trans influence in platinum(II)i complexes. Phenylation of Pt(II) dialkylsulfide complexes by BPh_4^- and SnPh_3H . Crystal structures of two polymorphs of *trans*-chlorobis(dimethylsulfide)-(phenyl)platinum(II) (P. Kapoor, V.Yu. Kukushkin, K. Löqvist and Å. Oskarsson), 71

4-Phenylpyridines

Metallation in connection with cross-coupling reactions. Coupling of hindered aryls for the synthesis of 4-phenylpyridines as part of *Streptonigrin* and *Lavendamycin* analogues (A. Godard, P. Rocca, V. Pomel, L. Thomas-dit-Dumont, J.C. Rovera, J.F. Thaburet, F. Marsais and G. Quéguiner), 25

Phosphine

Some reactions of 2,4-diphosphaplatinocycles and the crystal structures of $[\text{Pt}(\text{CH}_2\text{PPh}_2\text{CH}_2\text{PPh}_2)(\text{PPh}_3)(\text{CH}_2\text{Cl})]\text{PF}_6$, $[\text{Pt}(\text{CH}_2\text{PPh}_2\text{CH}_2\text{PPh}_2)_2](\text{PF}_6)_2$, and $[\text{Pt}(\text{CH}_2\text{PPh}_2\text{CH}_2\text{PPh}_2\text{-}(\text{PPh}_3)\text{OCMe}_2)(\text{PF}_6)_2$ (T. Ghaffar, A. Kieszkiewicz, S.C. Nyburg and A.W. Parkins), 227

Photochemistry

The photochemical reactivity of triosmium cluster complexes containing 2-mercaptopypyridine ligands: the crystal and molecular structures of the linked clusters $[(\text{Os}_3\text{H}(\text{CO})_{10})_2(\mu\text{-SC}_5\text{H}_3\text{NCO}_2)]$ and $[(\text{Os}_3\text{H}(\text{CO})_9)(\mu\text{-SC}_5\text{H}_3\text{NCO}_2)(\text{Os}_3\text{H}(\text{CO})_{10})]$ (E.W. Ainscough, A.M. Brodie, R.K. Coll, T.G. Kotch, A.J. Lees, A.J.A. Mair and J.M. Waters), 173

Platinum

Some reactions of 2,4-diphosphaplatinocycles and the crystal structures of $[\text{Pt}(\text{CH}_2\text{PPh}_2\text{CH}_2\text{PPh}_2)(\text{PPh}_3)(\text{CH}_2\text{Cl})]\text{PF}_6$, $[\text{Pt}(\text{CH}_2\text{PPh}_2\text{CH}_2\text{PPh}_2)_2](\text{PF}_6)_2$, and $[\text{Pt}(\text{CH}_2\text{PPh}_2\text{CH}_2\text{PPh}_2\text{-}(\text{PPh}_3)\text{OCMe}_2)(\text{PF}_6)_2$ (T. Ghaffar, A. Kieszkiewicz, S.C. Nyburg and A.W. Parkins), 227

Platinum(II)

Trans influence in platinum(II)i complexes. Phenylation of Pt(II) dialkylsulfide complexes by BPh_4^- and SnPh_3H . Crystal struc-

- tures of two polymorphs of *trans*-chlorobis(dimethylsulfide)-(phenyl)platinum(II) (P. Kapoor, V.Yu. Kukushkin, K. Lövqvist and Å. Oskarsson), 71
- Polymorphs**
- Trans* influence in platinum(II)i complexes. Phenylation of Pt(II) dialkylsulfide complexes by BPh_4^- and SnPh_3H . Crystal structures of two polymorphs of *trans*-chlorobis(dimethylsulfide)-(phenyl)platinum(II) (P. Kapoor, V.Yu. Kukushkin, K. Lövqvist and Å. Oskarsson), 71
- Pyrazolonato complexes**
- Triorganotin(IV) derivatives of several 4-acyl-5-pyrazolonato ligands: synthesis, spectroscopic characterization and behavior in solution. Crystal structure of aquotrimethyl(4-*p*-methoxybenzoyl-1-phenyl-3-methyl- pyrazolon-5-ato)tin(IV) (F. Marchetti, C. Pettinari, A. Cingolani, G.G. Lobbia, A. Cassetta and L. Barba), 141
- Rhenium**
- Rhenium carbonyls containing pyridyl ligands incorporating an alkyne entity (J.T. Lin, S.-S. Sun, J.J. Wu, Y.-C. Liaw and K.-J. Lin), 217
- Pyridinethiolato**
- Some pyridine-2-thiolato and 6-methylpyridine-2-thiolato complexes of manganese: crystal structure of $[\text{Mn}_2(\mu\text{-pyS})_2(\text{CO})_6]$ (pyS = pyridine-2-thiolato ligand) (S.E. Kabir, M.M. Karim, K. Kundu, S.M.B. Ullah and K.I. Hardcastle), 155
- α -Pyrone**
- Preparation and some properties of Mn(I) metallocenylacetylide and the related complexes (M. Sato and E. Mogi), 1
- Rhenium**
- Rhenium carbonyls containing pyridyl ligands incorporating an alkyne entity (J.T. Lin, S.-S. Sun, J.J. Wu, Y.-C. Liaw and K.-J. Lin), 217
- Ruthenium**
- Metal complexes of biologically important ligands, LXXXVII. α -Amino carboxylate complexes of palladium(II), iridium(III) and ruthenium(II) from chloro-bridged ortho-metallated metal compounds and $[(\text{OC})_3\text{Ru}(\text{Cl})(\mu\text{-Cl})]_2$ (R. Urban, R. Krämer, S. Mihan, K. Polborn, B. Wagner and W. Beck), 191
- Molecular structure of chlororuthenocenium $^+$ BF_4^- and chlorobisruthenocenium $^+$ BF_4^- salts (M. Watanabe, I. Motoyama, M. Shimo and H. Sano), 115
- Ruthenocene**
- Preparation and some properties of Mn(I) metallocenylacetylide and the related complexes (M. Sato and E. Mogi), 1
- Stannacyclohexane**
- Stannacyclohexanes and spiro-tin compounds with a stannole or a stannolene group (B. Wrackmeyer, U. Klaus, W. Milius, E. Klaus and T. Schaller), 235
- Stannole**
- Stannacyclohexanes and spiro-tin compounds with a stannole or a stannolene group (B. Wrackmeyer, U. Klaus, W. Milius, E. Klaus and T. Schaller), 235
- Stannolene**
- Stannacyclohexanes and spiro-tin compounds with a stannole or a stannolene group (B. Wrackmeyer, U. Klaus, W. Milius, E. Klaus and T. Schaller), 235
- Synthesis**
- Metallation in connection with cross-coupling reactions. Coupling of hindered aryls for the synthesis of 4-phenylpyridines as part of *Streptonigrin* and *Lavendamycin* analogues (A. Godard, P. Rocca, V. Pomel, L. Thomas-dit-Dumont, J.C. Rovera, J.F. Thaburet, F. Marsais and G. Quéguiner), 25
- Triorganotin(IV) derivatives of several 4-acyl-5-pyrazolonato ligands: synthesis, spectroscopic characterization and behavior in solution. Crystal structure of aquotrimethyl(4-*p*-methoxybenzoyl-1-phenyl-3-methyl- pyrazolon-5-ato)tin(IV) (F. Marchetti, C. Pettinari, A. Cingolani, G.G. Lobbia, A. Cassetta and L. Barba), 141
- Thiamine**
- The crystal structure of the salts [Hthiamine] $[\text{SnMe}_2(\text{H}_2\text{O})\text{Cl}_3]\text{Cl}$ and [Hthiamine] $[\text{SnPh}_2\text{Cl}_4]\text{H}_2\text{O}$: competition between water and chloride for coordination to diorganotin dihalides (J.S. Casas, A. Castañeiras, M.D. Couce, G. Martínez, J. Sordo and J.M. Varela), 165
- Thioarsinic acid**
- Oxidation of $(\text{AsPh}_2)_2\text{E}$ ($\text{E} = \text{O}$ or S); supramolecular hydrogen-bonded self-assembly of an unusual tetrานuclear adduct and crystal structure of $[\text{AsPh}_2(\text{O})\text{OH} \cdot \text{AsPh}_2(\text{S})\text{OH}]_2$ (L. Silaghi-Dumitrescu, M.N. Gibbons, I. Silaghi-Dumitrescu, J. Zukerman-Schpector, I. Haiduc and D.B. Sowerby), 101
- Thioether complexes**
- Trans* influence in platinum(II)i complexes. Phenylation of Pt(II) dialkylsulfide complexes by BPh_4^- and SnPh_3H . Crystal structures of two polymorphs of *trans*-chlorobis(dimethylsulfide)-(phenyl)platinum(II) (P. Kapoor, V.Yu. Kukushkin, K. Lövqvist and Å. Oskarsson), 71
- Thiolates**
- Organometallic alkylthiolate-bridged manganese cubanes (M. Reyes-Lezama, R.A. Toscano and N. Zúñiga-Villarreal), 19
- Thiolato**
- The photochemical reactivity of triosmium cluster complexes containing 2-mercaptopuridine ligands: the crystal and molecular structures of the linked clusters $[(\text{Os}_3\text{H}(\text{CO})_{10})_2(\mu\text{-SC}_5\text{H}_3\text{NCO}_2)]$ and $[(\text{Os}_3\text{H}(\text{CO})_9)(\mu\text{-SC}_5\text{H}_3\text{NCO}_2)(\text{Os}_3\text{H}(\text{CO})_{10})]$ (E.W. Ainscough, A.M. Brodie, R.K. Coll, T.G. Kotch, A.J. Lees, A.J.A. Mair and J.M. Waters), 173
- Thiosalicylato ligand**
- Preparation and structures of tetrameric and dimeric manganese carbonyl complexes incorporating thiosalicylato ligands (C.V. Depree, L. Main, B.K. Nicholson and K. Roberts), 201
- Tin**
- Highly stereoselective palladium-catalyzed coupling reactions of capping olefins acetylvinyl arenecarboxylates (L. Villar, J.P. Bullock, M.M. Khan, A. Nagarajan, R.W. Bates, S.G. Bott, G. Zepeda, F. Delgado and J. Tamariz), 9
- Stannacyclohexanes and spiro-tin compounds with a stannole or a stannolene group (B. Wrackmeyer, U. Klaus, W. Milius, E. Klaus and T. Schaller), 235
- The crystal structure of the salts [Hthiamine] $[\text{SnMe}_2(\text{H}_2\text{O})\text{Cl}_3]\text{Cl}$ and [Hthiamine] $[\text{SnPh}_2\text{Cl}_4]\text{H}_2\text{O}$: competition between water and chloride for coordination to diorganotin dihalides (J.S. Casas, A. Castañeiras, M.D. Couce, G. Martínez, J. Sordo and J.M. Varela), 165
- The role of μ -hydroxy and μ -alkoxy binuclear complexes in tin(IV)-catalysed urethane formation (R.P. Houghton and A.W. Mulvaney), 107
- Triorganotin(IV) derivatives of several 4-acyl-5-pyrazolonato ligands: synthesis, spectroscopic characterization and behavior in solution. Crystal structure of aquotrimethyl(4-*p*-methoxybenzoyl-1-phenyl-3-methyl- pyrazolon-5-ato)tin(IV) (F. Marchetti, C. Pettinari, A. Cingolani, G.G. Lobbia, A. Cassetta and L. Barba), 141
- Titanium**
- Synthesis and molecular structures of titanocene, zirconocene, and uranocene dichlorides containing 1,2-di-*tert*-butylcyclopentadienyl ligands (R.P. Hughes, J.R. Lomprey, A.L. Rheingold, B.S. Haggerty and G.P.A. Yap), 89
- Synthesis and reactivity of titanocene and zirconocene triflates (G.A. Luijstra), 209
- Triflate**
- Synthesis and reactivity of titanocene and zirconocene triflates (G.A. Luijstra), 209
- Trimethylsilyl**
- Alkyne complexes of copper(I) (1,1,5,5-hexafluoro-2,4-penta-nedionato): syntheses and characterization of $(\eta^2\text{-bis(trimethyl-}$

- silyl)acetylene) copper(I) (hfac), (μ - η^2 -bis(trimethylsilyl)-acetylene) bis(copper(I) (hfac)) and a series of (η^2 -alkyne) Cu(hfac) complexes (P. Doppelt and T.H. Baum), 53
- Tungsten**
Molybdenum and tungsten complexes containing the 1,2-di-*tert*-butylcyclopentadienyl ligand (R.P. Hughes, J.R. Lomprey, A.L. Rheingold and G.P.A. Yap), 63
- Uranium**
Synthesis and molecular structures of titanocene, zirconocene, and uranocene dichlorides containing 1,2-di-*tert*-butylcyclopentadienyl ligands (R.P. Hughes, J.R. Lomprey, A.L. Rheingold, B.S. Haggerty and G.P.A. Yap), 89
- Urethane formation**
The role of μ -hydroxy and μ -alkoxy binuclear complexes in tin(IV)-catalysed urethane formation (R.P. Houghton and A.W. Mulvaney), 107
- X-ray**
Stannacyclohexanes and spiro-tin compounds with a stannole or a stannolene group (B. Wrackmeyer, U. Klaus, W. Milius, E. Klaus and T. Schaller), 235
- X-ray diffraction**
Some reactions of 2,4-diphosphaplatinacycles and the crystal structures of $[\text{Pt}(\text{CH}_2\text{PPH}_2\text{CH}_2\text{PPh}_2)(\text{PPh}_3)(\text{CH}_2\text{Cl})]\text{PF}_6$, $[\text{Pt}(\text{CH}_2\text{PPh}_2\text{CH}_2\text{PPh}_2)_2]\text{PF}_6$, and $[\text{Pt}(\text{CH}_2\text{PPh}_2\text{CH}_2\text{PPh}_2)(\text{PPh}_3)(\text{OCMe}_2)]\text{PF}_6$ (T. Ghaffar, A. Kieszkiewicz, S.C. Nyburg and A.W. Parkins), 227
- Trans* influence in platinum(II)i complexes. Phenylation of Pt(II)-dialkylsulfide complexes by BPh_4^- and SnPh_3H . Crystal structures of two polymorphs of *trans*-chlorobis(dimethylsulfide)-(phenyl)platinum(II) (P. Kapoor, V.Yu. Kukushkin, K. Lövqvist and Å. Oskarsson), 71
- X-ray structure**
Addition of $\text{Cr}(\text{CO})_5$ to the $\text{M}(\eta^2\text{-S}_2)$ moiety of $\text{Cp}_2\text{M}(\text{S}_2)\text{H}$ ($\text{Cp}' = {}^1\text{BuC}_5\text{H}_4$; $\text{M} = \text{Ta}$; $\text{Cp}'' = \text{C}_5\text{Me}_4\text{Et}$; $\text{M} = \text{Nb}$) and crystal structures of $\text{Cp}'_2\text{TaS}_2\text{H}\cdot[\text{Cr}(\text{CO})_5]_n$ ($n = 1, 2$) (H. Brunner, G. Gehart, J.-C. Leblanc, C. Moise, B. Nuber, B. Stubenhofer, F. Volpatto and J. Wachter), 47
- Cycloaddition reactions of the manganese vinylidene $\text{Cp}'(\text{CO})_2\text{Mn}=\text{C}=\text{C}(\text{H})\text{R}$, carbyne $[\text{Cp}'(\text{CO})_2\text{Mn}=\text{CCH}_2\text{R}]^+$, and anionic carbene $[\text{Cp}'(\text{CO})_2\text{Mn}=\text{C}(\text{OEt})\text{CHR}]^-$ ($\text{R} = \text{H}, \text{Me}$) complexes with 1,4-diphenyl-1-azabutadiene (C. Gimenez, N. Lugan, R. Mathieu and G.L. Geoffroy), 133
- Synthesis, properties and X-ray crystal structure of bis(decamethyl-lanthanocene)-anthracene (K.-H. Thiele, S. Bambirra, H. Schumann and H. Hemling), 161
- The crystal structure of the salts [Hthiamine] $[\text{SnMe}_2(\text{H}_2\text{O})\text{Cl}_3]\text{Cl}$ and [Hthiamine] $[\text{SnPh}_2\text{Cl}_4]\text{H}_2\text{O}$: competition between water and chloride for coordination to diorganotin dihalides (J.S. Casas, A. Castilleiras, M.D. Couce, G. Martinez, J. Sordo and J.M. Varela), 165
- Triorganotin(IV) derivatives of several 4-acyl-5-pyrazolonato ligands: synthesis, spectroscopic characterization and behavior in solution. Crystal structure of aquotrimethyl(4-*p*-methoxybenzoyl-1-phenyl-3-methyl-pyrazolon-5-ato)tin(IV) (F. Marchetti, C. Pettinari, A. Cingolani, G.G. Lobbia, A. Cassetta and L. Barba), 141
- Zinc**
Highly stereoselective palladium-catalyzed coupling reactions of captodative olefins acetylvinyl arenecarboxylates (L. Villar, J.P. Bullock, M.M. Khan, A. Nagarajan, R.W. Bates, S.G. Bott, G. Zepeda, F. Delgado and J. Tamariz), 9
- Zirconium**
Synthesis and molecular structures of titanocene, zirconocene, and uranocene dichlorides containing 1,2-di-*tert*-butylcyclopentadienyl ligands (R.P. Hughes, J.R. Lomprey, A.L. Rheingold, B.S. Haggerty and G.P.A. Yap), 89
- Synthesis and reactivity of titanocene and zirconocene triflates (G.A. Luinstra), 209