

Subject Index of Volume 505

Aldehydes

Regio- and diastereo-selectivity of the insertion of aldehydes into alkyne zirconocene complexes (M.E. Maier and T. Oost), 95

Alkenylcopper

Intramolecular addition of monomeric arylcopper entities across an alkyne grouping in a complex of type $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CSiMe}_3)_2]\text{CuR}$; X-ray structure of $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CSiMe}_3)\{\mu\text{-C}=\text{C}(\text{SiMe}_3)(\text{C}_6\text{H}_3(\text{CH}_2\text{NMe}_2)_2\text{-2,6})\}\text{Cu}]$ (M.D. Janssen, W.J.J. Smeets, A.L. Spek, D.M. Grove, H. Lang and G. Van Koten), 123

Alkylidene

Insertion of alkynes into molybdenum–phosphine and molybdenum–carbon bonds. X-ray structure of the phosphonium–alkylidene complex $[\text{MoO}(\text{C}(\text{Ph})\text{CH}=\text{C}(\text{Ph})\text{CH}_2\text{PMe}_2\text{Ph})(\text{SC}_6\text{H}_4^1\text{Pr}_3\text{-2,4,6})_3]$ (D.L. Hughes, K. Marjani and R.L. Richards), 127

Alkyl migration

A comparison of the rates of alkyl migration in the complexes $[\text{CpM}(\text{CO})_2\text{R}]$ ($\text{M} = \text{Fe, Ru, Os}$; $\text{Cp} = \eta^5\text{-C}_5\text{H}_5$) (R. George, J.-A.M. Andersen and J.R. Moss), 131

Alkyne

Insertion of alkynes into molybdenum–phosphine and molybdenum–carbon bonds. X-ray structure of the phosphonium–alkylidene complex $[\text{MoO}(\text{C}(\text{Ph})\text{CH}=\text{C}(\text{Ph})\text{CH}_2\text{PMe}_2\text{Ph})(\text{SC}_6\text{H}_4^1\text{Pr}_3\text{-2,4,6})_3]$ (D.L. Hughes, K. Marjani and R.L. Richards), 127

Alkynes

Intramolecular addition of monomeric arylcopper entities across an alkyne grouping in a complex of type $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CSiMe}_3)_2]\text{CuR}$; X-ray structure of $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CSiMe}_3)\{\mu\text{-C}=\text{C}(\text{SiMe}_3)(\text{C}_6\text{H}_3(\text{CH}_2\text{NMe}_2)_2\text{-2,6})\}\text{Cu}]$ (M.D. Janssen, W.J.J. Smeets, A.L. Spek, D.M. Grove, H. Lang and G. Van Koten), 123

Ligand substitution of the redox-active diphosphine 4,5-bis(diphenylphosphino)-4-cyclopenten-1,3-dione (bpdc) in the alkynyl-bridged cluster $\text{Ru}_3(\text{CO})_9(\mu_2\text{-H})(\mu_3\text{-}\eta^2\text{-C}\equiv\text{C}^t\text{Bu})$. Synthesis, X-ray structure and electrochemical properties of $\text{Ru}_3(\text{CO})_7(\mu_2\text{-H})(\mu_3\text{-}\eta^2\text{-C}\equiv\text{C}^t\text{Bu})(\text{bpdc})$ (H. Shen, T.J. Williams, S.G. Bott and M.G. Richmond), 1

Monomere Alkin-stabilisierte Kupfer(I)-Halogenid- und Kupfer(I)-Pseudohalogenid-Verbindungen; Kristallstruktur von $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CPh})_2]\text{CuCl}$ (H. Lang, M. Herres, K. Köhler, S. Blau, S. Weinmann, M. Weinmann, G. Rheinwald und W. Imhof), 85

Regio- and diastereo-selectivity of the insertion of aldehydes into alkyne zirconocene complexes (M.E. Maier and T. Oost), 95

Arylcopper

Intramolecular addition of monomeric arylcopper entities across an alkyne grouping in a complex of type $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CSiMe}_3)_2]\text{CuR}$; X-ray structure of $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CSiMe}_3)\{\mu\text{-C}=\text{C}(\text{SiMe}_3)(\text{C}_6\text{H}_3(\text{CH}_2\text{NMe}_2)_2\text{-2,6})\}\text{Cu}]$ (M.D. Janssen, W.J.J. Smeets, A.L. Spek, D.M. Grove, H. Lang and G. Van Koten), 123

Bioorganosilicon chemistry

Unsaturated derivatives of the muscarinic antagonists hexahydro-sila-difenidol (HHSiD) and *p*-fluoro-hexahydro-sila-difenidol (*p*-F-HHSiD) with an (*E*)-Si–CH=CH–CH₂–N moiety: syntheses and binding affinities at muscarinic receptor subtypes (R. Tacke, B. Forth, M. Waelbroeck, J. Gross, E. Mutschler and G. Lambrecht), 73

bis(alkynyl)titanocene

Intramolecular addition of monomeric arylcopper entities across an alkyne grouping in a complex of type $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CSiMe}_3)_2]\text{CuR}$; X-ray structure of $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CSiMe}_3)\{\mu\text{-C}=\text{C}(\text{SiMe}_3)(\text{C}_6\text{H}_3(\text{CH}_2\text{NMe}_2)_2\text{-2,6})\}\text{Cu}]$ (M.D. Janssen, W.J.J. Smeets, A.L. Spek, D.M. Grove, H. Lang and G. Van Koten), 123

bis-metalla alkenyl

Intramolecular addition of monomeric arylcopper entities across an alkyne grouping in a complex of type $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CSiMe}_3)_2]\text{CuR}$; X-ray structure of $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CSiMe}_3)\{\mu\text{-C}=\text{C}(\text{SiMe}_3)(\text{C}_6\text{H}_3(\text{CH}_2\text{NMe}_2)_2\text{-2,6})\}\text{Cu}]$ (M.D. Janssen, W.J.J. Smeets, A.L. Spek, D.M. Grove, H. Lang and G. Van Koten), 123

Boron-substituted

New organo-cobalt complexes derived from cobaloximes with one or two diphenylboron moieties in the oxime bridges (R. Dreos, G. Tazher, S. Vuano, F. Asaro, G. Pellizer, G. Nardin, L. Randaccio and S. Gremia), 135

Carbonyl

A comparison of the rates of alkyl migration in the complexes $[\text{CpM}(\text{CO})_2\text{R}]$ ($\text{M} = \text{Fe, Ru, Os}$; $\text{Cp} = \eta^5\text{-C}_5\text{H}_5$) (R. George, J.-A.M. Andersen and J.R. Moss), 131

Catalysis

A new, highly selective, water-soluble rhodium catalyst for methyl acrylate hydroformylation (G. Fremy, Y. Castanet, R. Grzybek, E. Monflier, A. Mortreux, A.M. Trzeciak and J.J. Ziolkowski), 11

Chromium

Group 6 homo-bimetallic carbonyl complexes containing polydentate phosphine ligands (D.-N. Horng and C.-H. Ueng), 53

CID

Metastable ion study of organosilicon compounds. VIII. Dimethoxy-diphenylsilane (S. Mori, F. Okada, T. Kinoshita, K. Kawazoe, M. Takahashi and S. Tajima), 43

Cluster

Unexpected reactions of anionic intermediates $[(\mu\text{-RS})(\mu\text{-Se})\text{Fe}_2(\text{CO})_6]^-$ with SO_2Cl_2 . Synthesis of $[(\mu\text{-RS})\text{Fe}_2(\text{CO})_6]_2\text{-}(\mu_4\text{-Se})(\text{R} = \text{Ph, Et, }^n\text{Pr, }^t\text{Bu})$ and crystal structure of $[(\mu\text{-PhS})\text{Fe}_2(\text{CO})_6]_2(\mu_4\text{-Se})$ (L.-C. Song, C.-G. Yan, Q.-M. Hu and X.-Y. Huang), 119

Cobaloximes

New organo-cobalt complexes derived from cobaloximes with one or two diphenylboron moieties in the oxime bridges (R. Dreos, G.

- Tauzher, S. Vuano, F. Asaro, G. Pellizer, G. Nardin, L. Randaccio and S. Geremia), 135
- Cobalt**
New organo-cobalt complexes derived from cobaloximes with one or two diphenylboron moieties in the oxime bridges (R. Dreos, G. Tauzher, S. Vuano, F. Asaro, G. Pellizer, G. Nardin, L. Randaccio and S. Geremia), 135
- CO-bridged anion**
Unexpected reactions of anionic intermediates $[(\mu\text{-RS})(\mu\text{-Se})\text{Fe}_2(\text{CO})_6]^-$ with SO_2Cl_2 . Synthesis of $[(\mu\text{-RS})\text{Fe}_2(\text{CO})_6]_2(\mu_4\text{-Se})(\text{R} = \text{Ph}, \text{Et}, {}^n\text{Pr}, {}^t\text{Bu})$ and crystal structure of $[(\mu\text{-PhS})\text{Fe}_2(\text{CO})_6]_2(\mu_4\text{-Se})$ (L.-C. Song, C.-G. Yan, Q.-M. Hu and X.-Y. Huang), 119
- Copper(I) halides**
Monomere Alkin-stabilisierte Kupfer(I)-Halogenid- und Kupfer(I)-Pseudohalogenid-Verbindungen; Kristallstruktur von $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CPh})_2]\text{CuCl}$ (H. Lang, M. Herres, K. Köhler, S. Blau, S. Weinmann, M. Weinmann, G. Rheinwald und W. Imhof), 85
- Copper(I) pseudohalides**
Monomere Alkin-stabilisierte Kupfer(I)-Halogenid- und Kupfer(I)-Pseudohalogenid-Verbindungen; Kristallstruktur von $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CPh})_2]\text{CuCl}$ (H. Lang, M. Herres, K. Köhler, S. Blau, S. Weinmann, M. Weinmann, G. Rheinwald und W. Imhof), 85
- Crystal structure**
Synthesis and structural studies of 2-stannyl-substituted ferrocenylmethylamine and -phosphine derivatives $2\text{-Me}_2\text{RSnFcCH}_2\text{Y}$ ($\text{R} = \text{Me}, \text{Cl}; \text{Y} = \text{NMe}_2, \text{PPh}_2, \text{P}(\text{O})\text{Ph}_2$; $\text{Fc} = \text{C}_{10}\text{H}_8\text{Fe}$) (S. Hoppe, H. Weichmann, K. Jurkschat, C. Schneider-Koglin and M. Dräger), 63
- Cyclopalladation**
Synthesis of cyclopalladated anils of benzoylferrocene via transmetalation reaction of mercurated ferrocenylketimines with Li_2PdCl_4 or by direct cyclopalladation reaction of ferrocenylketimines (Y.J. Wu, Y.H. Liu, K.L. Ding, H.Z. Yuan and X.A. Mao), 37
- Cyclopentadienyl**
A comparison of the rates of alkyl migration in the complexes $[\text{CpM}(\text{CO})_2\text{R}]$ ($\text{M} = \text{Fe}, \text{Ru}, \text{Os}; \text{Cp} = \eta^5\text{-C}_5\text{H}_5$) (R. George, J.-A.M. Andersen and J.R. Moss), 131
- Cylosiloxanes**
On the synthesis of siloxanes. XXIII. Synthesis and spectroscopic characterization of 2-functional 1,3-dioxo-2,4,7-trisilacycloheptanes (K. Rühlmann, S. Jähnichen, U. Scheim, D. Scheller and F. Keidel), 29
- Diastereoselectivity**
Regio- and diastereo-selectivity of the insertion of aldehydes into alkyne zirconocene complexes (M.E. Maier and T. Oost), 95
- Di-rbutyl-2,2'-bipyridine**
Fluxional behavior of tert-butyl-substituted 2,2':6'2"-terpyridylmolybdenum(0) and 2,2'-bipyridylmolybdenum(II) complexes: enhanced solubility and ease in NMR study caused by the tert-butyl group (T. Daniel, N. Suzuki, K. Tanaka and A. Nakamura), 109
- 1,4-Diynes**
Monomere Alkin-stabilisierte Kupfer(I)-Halogenid- und Kupfer(I)-Pseudohalogenid-Verbindungen; Kristallstruktur von $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CPh})_2]\text{CuCl}$ (H. Lang, M. Herres, K. Köhler, S. Blau, S. Weinmann, M. Weinmann, G. Rheinwald und W. Imhof), 85
- Dynamic behavior**
Fluxional behavior of tert-butyl-substituted 2,2':6'2"-terpyridylmolybdenum(0) and 2,2'-bipyridylmolybdenum(II) complexes: enhanced solubility and ease in NMR study caused by the tert-butyl group (T. Daniel, N. Suzuki, K. Tanaka and A. Nakamura), 109
- Ferrocene**
Synthesis and structural studies of 2-stannyl-substituted ferrocenylmethylamine and -phosphine derivatives $2\text{-Me}_2\text{RSnFcCH}_2\text{Y}$ ($\text{R} = \text{Me}, \text{Cl}; \text{Y} = \text{NMe}_2, \text{PPh}_2, \text{P}(\text{O})\text{Ph}_2$; $\text{Fc} = \text{C}_{10}\text{H}_8\text{Fe}$) (S. Hoppe, H. Weichmann, K. Jurkschat, C. Schneider-Koglin and M. Dräger), 63
Synthesis of cyclopalladated anils of benzoylferrocene via transmetalation reaction of mercurated ferrocenylketimines with Li_2PdCl_4 or by direct cyclopalladation reaction of ferrocenylketimines (Y.J. Wu, Y.H. Liu, K.L. Ding, H.Z. Yuan and X.A. Mao), 37
- p-Fluoro-hexahydro-sila-difenidol (p-F-HHSiD)**
Unsaturated derivatives of the muscarinic antagonists hexahydro-sila-difenidol (HHSiD) and p-fluoro-hexahydro-sila-difenidol (p-F-HHSiD) with an (E)-Si-CH=CH-CH₂-N moiety: syntheses and binding affinities at muscarinic receptor subtypes (R. Tacke, B. Forth, M. Waelbroeck, J. Gross, E. Mutschler and G. Lambrecht), 73
- Group 6 complexes**
Group 6 homo-bimetallic carbonyl complexes containing polydentate phosphine ligands (D.-N. Horng and C.-H. Ueng), 53
- Hexahydro-sila-difenidol (HHSiD)**
Unsaturated derivatives of the muscarinic antagonists hexahydro-sila-difenidol (HHSiD) and p-fluoro-hexahydro-sila-difenidol (p-F-HHSiD) with an (E)-Si-CH=CH-CH₂-N moiety: syntheses and binding affinities at muscarinic receptor subtypes (R. Tacke, B. Forth, M. Waelbroeck, J. Gross, E. Mutschler and G. Lambrecht), 73
- Homo-bimetallic complex**
Group 6 homo-bimetallic carbonyl complexes containing polydentate phosphine ligands (D.-N. Horng and C.-H. Ueng), 53
- Hydroformylation**
A new, highly selective, water-soluble rhodium catalyst for methyl acrylate hydroformylation (G. Fremy, Y. Castanet, R. Grzybek, E. Monflier, A. Mortreux, A.M. Trzeciak and J.J. Ziolkowski), 11
- Hydrosilylation**
Unsaturated derivatives of the muscarinic antagonists hexahydro-sila-difenidol (HHSiD) and p-fluoro-hexahydro-sila-difenidol (p-F-HHSiD) with an (E)-Si-CH=CH-CH₂-N moiety: syntheses and binding affinities at muscarinic receptor subtypes (R. Tacke, B. Forth, M. Waelbroeck, J. Gross, E. Mutschler and G. Lambrecht), 73
- Insertion reaction**
Regio- and diastereo-selectivity of the insertion of aldehydes into alkyne zirconocene complexes (M.E. Maier and T. Oost), 95
- Intramolecular addition**
Intramolecular addition of monomeric arylcopper entities across an alkyne grouping in a complex of type $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CSiMe}_3)_2]\text{CuR}$; X-ray structure of $[(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)_2\text{Ti}(\text{C}\equiv\text{CSiMe}_3)\{\mu\text{-C}=\text{C}(\text{SiMe}_3)(\text{C}_6\text{H}_5)(\text{CH}_2\text{NMe}_2)_2\cdot 2,6\}]\text{Cu}$ (M.D. Janssen, W.J.J. Smeets, A.L. Spek, D.M. Grove, H. Lang and G. Van Koten), 123
- Iron**
A comparison of the rates of alkyl migration in the complexes $[\text{CpM}(\text{CO})_2\text{R}]$ ($\text{M} = \text{Fe}, \text{Ru}, \text{Os}; \text{Cp} = \eta^5\text{-C}_5\text{H}_5$) (R. George, J.-A.M. Andersen and J.R. Moss), 131
Synthesis of cyclopalladated anils of benzoylferrocene via transmetalation reaction of mercurated ferrocenylketimines with Li_2PdCl_4 or by direct cyclopalladation reaction of ferrocenylketimines (Y.J. Wu, Y.H. Liu, K.L. Ding, H.Z. Yuan and X.A. Mao), 37

- Unexpected reactions of anionic intermediates $[(\mu\text{-RS})(\mu\text{-Se})\text{Fe}_2(\text{CO})_6]^-$ with SO_2Cl_2 . Synthesis of $[(\mu\text{-RS})\text{Fe}_2(\text{CO})_6]_2(\mu_4\text{-Se})(\text{R} = \text{Ph}, \text{Et}, {}^n\text{Pr}, {}^t\text{Bu})$ and crystal structure of $[(\mu\text{-PhS})\text{Fe}_2(\text{CO})_6]_2(\mu_4\text{-Se})$ (L.-C. Song, C.-G. Yan, Q.-M. Hu and X.-Y. Huang), 119
- Mass spectrometry**
Metastable ion study of organosilicon compounds. VIII. Dimethoxydiphenylsilane (S. Mori, F. Okada, T. Kinoshita, K. Kawazoe, M. Takahashi and S. Tajima), 43
- 3-mercapto-1-propanol**
The chemistry of 3-mercapto-1-propanol with Group 4 metallocene derivatives. The molecular structure of $\text{Cp}_2^* \text{ZrCl}(\text{OCH}_2\text{CH}_2\text{CH}_2\text{-SH})$ (C.-T. Chen and H.-M. Gau), 17
- Mercury**
Synthesis of cyclopalladated anils of benzoylferrocene via transmetalation reaction of mercurated ferrocenylketimines with Li_2PdCl_4 or by direct cyclopalladation reaction of ferrocenylketimines (Y.J. Wu, Y.H. Liu, K.L. Ding, H.Z. Yuan and X.A. Mao), 37
- Metal carbonyl derivative**
Group 6 homo-bimetallic carbonyl complexes containing polydentate phosphine ligands (D.-N. Horng and C.-H. Ueng), 53
- Metal clusters**
Ligand substitution of the redox-active diphosphine 4,5-bis(diphenylphosphino)-4-cyclopenten-1,3-dione (bpcd) in the alkynyl-bridged cluster $\text{Ru}_3(\text{CO})_9(\mu_2\text{-H})(\mu_3\text{-}\eta^2\text{-C}\equiv\text{C}^t\text{Bu})$. Synthesis, X-ray structure and electrochemical properties of $\text{Ru}_3(\text{CO})_7(\mu_2\text{-H})(\mu_3\text{-}\eta^2\text{-C}\equiv\text{C}^t\text{Bu})(\text{bpcd})$ (H. Shen, T.J. Williams, S.G. Bott and M.G. Richmond), 1
- Metallocene**
The chemistry of 3-mercapto-1-propanol with Group 4 metallocene derivatives. The molecular structure of $\text{Cp}_2^* \text{ZrCl}(\text{OCH}_2\text{CH}_2\text{CH}_2\text{-SH})$ (C.-T. Chen and H.-M. Gau), 17
- Metastable ions**
Metastable ion study of organosilicon compounds. VIII. Dimethoxydiphenylsilane (S. Mori, F. Okada, T. Kinoshita, K. Kawazoe, M. Takahashi and S. Tajima), 43
- Metathesis**
Structure and reactivity of metathesis-active tungsta-carbenes (L. Bencze and R. Szilágyi), 81
- Methyl acrylate**
A new, highly selective, water-soluble rhodium catalyst for methyl acrylate hydroformylation (G. Fremy, Y. Castanet, R. Grzybek, E. Monflier, A. Mortreux, A.M. Trzeciak and J.J. Ziolkowski), 11
- MIKE**
Metastable ion study of organosilicon compounds. VIII. Dimethoxydiphenylsilane (S. Mori, F. Okada, T. Kinoshita, K. Kawazoe, M. Takahashi and S. Tajima), 43
- Molybdenum**
Fluxional behavior of tert-butyl-substituted 2,2':6'2"-terpyridylmolybdenum(0) and 2,2'-bipyridylmolybdenum(II) complexes: enhanced solubility and ease in NMR study caused by the tert-butyl group (T. Daniel, N. Suzuki, K. Tanaka and A. Nakamura), 109
Group 6 homo-bimetallic carbonyl complexes containing polydentate phosphine ligands (D.-N. Horng and C.-H. Ueng), 53
Insertion of alkynes into molybdenum-phosphine and molybdenum-carbon bonds. X-ray structure of the phosphonium-alkylidene complex $[\text{MoO}\{\text{C}(\text{Ph})\text{CH}=\text{C}(\text{Ph})\text{CH}_2\text{PMe}_2\text{Ph}\}(\text{SC}_6\text{H}_4^1\text{Pr}_3\text{-2,4,6})_3]$ (D.L. Hughes, K. Marjani and R.L. Richards), 127
- Muscarinic receptor subtypes**
Unsaturated derivatives of the muscarinic antagonists hexahydro-sila-difenidol (HHSiD) and *p*-fluoro-hexahydro-sila-difenidol (*p*-F-HHSiD) with an (*E*)-Si-CH=CH-CH₂-N moiety: syntheses and binding affinities at muscarinic receptor subtypes (R. Tacke, B. Forth, M. Waelbroeck, J. Gross, E. Mutschler and G. Lambrecht), 73
- Niobium**
The all-sodium salt of a polyoxoanion-supported organometallic complex: synthesis and characterization of $\text{Na}_7[(\eta^5\text{-C}_5\text{Me}_5)\text{Rh}\cdot\text{P}_2\text{W}_{15}\text{Nb}_3\text{O}_{62}]\cdot 7\text{DMSO}\cdot 5\text{H}_2\text{O}$ (K. Nomiya, C. Nozaki, M. Kaneko, R.G. Finke and M. Pohl), 23
- NMR**
Synthesis and structural studies of 2-stannyl-substituted ferrocenylmethylamine and -phosphine derivatives 2-Me₂RSnFcCH₂Y (R = Me, Cl; Y = NMe₂, PPh₂, P(O)Ph₂; Fc = C₁₀H₈Fe) (S. Hoppe, H. Weichmann, K. Jurkschat, C. Schneider-Koglin and M. Dräger), 63
- Nuclear magnetic resonance**
The all-sodium salt of a polyoxoanion-supported organometallic complex: synthesis and characterization of $\text{Na}_7[(\eta^5\text{-C}_5\text{Me}_5)\text{Rh}\cdot\text{P}_2\text{W}_{15}\text{Nb}_3\text{O}_{62}]\cdot 7\text{DMSO}\cdot 5\text{H}_2\text{O}$ (K. Nomiya, C. Nozaki, M. Kaneko, R.G. Finke and M. Pohl), 23
- Organotin**
Synthesis and structural studies of 2-stannyl-substituted ferrocenylmethylamine and -phosphine derivatives 2-Me₂RSnFcCH₂Y (R = Me, Cl; Y = NMe₂, PPh₂, P(O)Ph₂; Fc = C₁₀H₈Fe) (S. Hoppe, H. Weichmann, K. Jurkschat, C. Schneider-Koglin and M. Dräger), 63
- Osmium**
A comparison of the rates of alkyl migration in the complexes $[\text{CpM}(\text{CO})_2\text{R}]$ (M = Fe, Ru, Os; Cp = $\eta^5\text{-C}_5\text{H}_5$) (R. George, J.-A.M. Andersen and J.R. Moss), 131
- Oxidative addition**
Ligand substitution of the redox-active diphosphine 4,5-bis(diphenylphosphino)-4-cyclopenten-1,3-dione (bpcd) in the alkynyl-bridged cluster $\text{Ru}_3(\text{CO})_9(\mu_2\text{-H})(\mu_3\text{-}\eta^2\text{-C}\equiv\text{C}^t\text{Bu})$. Synthesis, X-ray structure and electrochemical properties of $\text{Ru}_3(\text{CO})_7(\mu_2\text{-H})(\mu_3\text{-}\eta^2\text{-C}\equiv\text{C}^t\text{Bu})(\text{bpcd})$ (H. Shen, T.J. Williams, S.G. Bott and M.G. Richmond), 1
- Palladium**
Synthesis of cyclopalladated anils of benzoylferrocene via transmetalation reaction of mercurated ferrocenylketimines with Li_2PdCl_4 or by direct cyclopalladation reaction of ferrocenylketimines (Y.J. Wu, Y.H. Liu, K.L. Ding, H.Z. Yuan and X.A. Mao), 37
- Pentacoordination**
Synthesis and structural studies of 2-stannyl-substituted ferrocenylmethylamine and -phosphine derivatives 2-Me₂RSnFcCH₂Y (R = Me, Cl; Y = NMe₂, PPh₂, P(O)Ph₂; Fc = C₁₀H₈Fe) (S. Hoppe, H. Weichmann, K. Jurkschat, C. Schneider-Koglin and M. Dräger), 63
- Phosphines**
Ligand substitution of the redox-active diphosphine 4,5-bis(diphenylphosphino)-4-cyclopenten-1,3-dione (bpcd) in the alkynyl-bridged cluster $\text{Ru}_3(\text{CO})_9(\mu_2\text{-H})(\mu_3\text{-}\eta^2\text{-C}\equiv\text{C}^t\text{Bu})$. Synthesis, X-ray structure and electrochemical properties of $\text{Ru}_3(\text{CO})_7(\mu_2\text{-H})(\mu_3\text{-}\eta^2\text{-C}\equiv\text{C}^t\text{Bu})(\text{bpcd})$ (H. Shen, T.J. Williams, S.G. Bott and M.G. Richmond), 1
- Phosphonium**
Insertion of alkynes into molybdenum-phosphine and molybdenum-carbon bonds. X-ray structure of the phosphonium-alkylidene complex $[\text{MoO}\{\text{C}(\text{Ph})\text{CH}=\text{C}(\text{Ph})\text{CH}_2\text{PMe}_2\text{Ph}\}(\text{SC}_6\text{H}_4^1\text{Pr}_3\text{-2,4,6})_3]$ (D.L. Hughes, K. Marjani and R.L. Richards), 127

Polyoxometallate

The all-sodium salt of a polyoxoanion-supported organometallic complex: synthesis and characterization of $\text{Na}_7[(\eta^5\text{-C}_5\text{Me}_5)\text{Rh} \cdot \text{P}_2\text{W}_{15}\text{Nb}_3\text{O}_{62}] \cdot 7\text{DMSO} \cdot 5\text{H}_2\text{O}$ (K. Nomiya, C. Nozaki, M. Kaneko, R.G. Finke and M. Pohl), 23

Preparations

New organo-cobalt complexes derived from cobaloximes with one or two diphenylboron moieties in the oxime bridges (R. Dreos, G. Tazher, S. Vuano, F. Asaro, G. Pellizer, G. Nardin, L. Randaccio and S. Geremia), 135

Regioselectivity

Regio- and diastereo-selectivity of the insertion of aldehydes into alkyne zirconocene complexes (M.E. Maier and T. Oost), 95

Rhodium

A new, highly selective, water-soluble rhodium catalyst for methyl acrylate hydroformylation (G. Fremy, Y. Castanet, R. Grzybek, E. Monflier, A. Mortreux, A.M. Trzeciak and J.J. Ziolkowski), 11

The all-sodium salt of a polyoxoanion-supported organometallic complex: synthesis and characterization of $\text{Na}_7[(\eta^5\text{-C}_5\text{Me}_5)\text{Rh} \cdot \text{P}_2\text{W}_{15}\text{Nb}_3\text{O}_{62}] \cdot 7\text{DMSO} \cdot 5\text{H}_2\text{O}$ (K. Nomiya, C. Nozaki, M. Kaneko, R.G. Finke and M. Pohl), 23

Ruthenium

A comparison of the rates of alkyl migration in the complexes $[\text{CpM}(\text{CO})_2\text{R}]$ (M = Fe, Ru, Os; Cp = $\eta^5\text{-C}_5\text{H}_5$) (R. George, J.-A.M. Andersen and J.R. Moss), 131

Ligand substitution of the redox-active diphosphine 4,5-bis(diphenylphosphino)-4-cyclopenten-1,3-dione (bpcd) in the alkynyl-bridged cluster $\text{Ru}_3(\text{CO})_9(\mu_2\text{-H})(\mu_3\text{-}\eta^2\text{-C}\equiv\text{C}^t\text{Bu})$. Synthesis, X-ray structure and electrochemical properties of $\text{Ru}_3(\text{CO})_7(\mu_2\text{-H})(\mu_3\text{-}\eta^2\text{-C}\equiv\text{C}^t\text{Bu})(\text{bpcd})$ (H. Shen, T.J. Williams, S.G. Bott and M.G. Richmond), 1

Selenium

Unexpected reactions of anionic intermediates $[(\mu\text{-RS})(\mu\text{-Se})\text{Fe}_2(\text{CO})_6]^-$ with SO_2Cl_2 . Synthesis of $[(\mu\text{-RS})\text{Fe}_2(\text{CO})_6]_2(\mu_4\text{-Se})(\text{R} = \text{Ph}, \text{Et}, {}^n\text{Pr}, {}^t\text{Bu})$ and crystal structure of $[(\mu\text{-PhS})\text{Fe}_2(\text{CO})_6]_2(\mu_4\text{-Se})$ (L.-C. Song, C.-G. Yan, Q.-M. Hu and X.-Y. Huang), 119

Silanols

Unsaturated derivatives of the muscarinic antagonists hexahydro-sila-difenidol (HHSiD) and *p*-fluoro-hexahydro-sila-difenidol (*p*-F-HHSiD) with an (*E*)-Si-CH=CH-CH₂-N moiety: syntheses and binding affinities at muscarinic receptor subtypes (R. Tacke, B. Forth, M. Waelbroeck, J. Gross, E. Mutschler and G. Lambrecht), 73

Silicon

Metastable ion study of organosilicon compounds. VIII. Dimethoxy-diphenylsilane (S. Mori, F. Okada, T. Kinoshita, K. Kawazoe, M. Takahashi and S. Tajima), 43

Sodium

The all-sodium salt of a polyoxoanion-supported organometallic complex: synthesis and characterization of $\text{Na}_7[(\eta^5\text{-C}_5\text{Me}_5)\text{Rh} \cdot \text{P}_2\text{W}_{15}\text{Nb}_3\text{O}_{62}] \cdot 7\text{DMSO} \cdot 5\text{H}_2\text{O}$ (K. Nomiya, C. Nozaki, M. Kaneko, R.G. Finke and M. Pohl), 23

Spectroscopic characterization

On the synthesis of siloxanes. XXIII. Synthesis and spectroscopic characterization of 2-functional 1,3-dioxo-2,4,7-trisilacycloheptanes (K. Rühlmann, S. Jähnichen, U. Scheim, D. Scheller and F. Keidel), 29

Sulfuryl chloride

Unexpected reactions of anionic intermediates $[(\mu\text{-RS})(\mu\text{-Se})\text{Fe}_2(\text{CO})_6]^-$ with SO_2Cl_2 . Synthesis of $[(\mu\text{-RS})\text{Fe}_2(\text{CO})_6]_2(\mu_4\text{-Se})(\text{R} = \text{Ph}, \text{Et}, {}^n\text{Pr}, {}^t\text{Bu})$ and crystal structure of $[(\mu\text{-PhS})\text{Fe}_2(\text{CO})_6]_2(\mu_4\text{-Se})$ (L.-C. Song, C.-G. Yan, Q.-M. Hu and X.-Y. Huang), 119

$(\text{PhS})\text{Fe}_2(\text{CO})_6]_2(\mu_4\text{-Se})$ (L.-C. Song, C.-G. Yan, Q.-M. Hu and X.-Y. Huang), 119

Synthesis

On the synthesis of siloxanes. XXIII. Synthesis and spectroscopic characterization of 2-functional 1,3-dioxo-2,4,7-trisilacycloheptanes (K. Rühlmann, S. Jähnichen, U. Scheim, D. Scheller and F. Keidel), 29

Temperature-dependent NMR

Fluxional behavior of tert-butyl-substituted 2,2':6'2"-terpyridylmolybdenum(0) and 2,2'-bipyridylmolybdenum(II) complexes: enhanced solubility and ease in NMR study caused by the tert-butyl group (T. Daniel, N. Suzuki, K. Tanaka and A. Nakamura), 109

Thiolate

Insertion of alkynes into molybdenum-phosphine and molybdenum-carbon bonds. X-ray structure of the phosphonium-alkylidene complex $[\text{MoO}(\text{C}(\text{Ph})\text{CH}=\text{C}(\text{Ph})\text{CH}_2\text{PMe}_2\text{Ph})(\text{SC}_6\text{H}_4^i\text{Pr}_3-2,4,6)_3]$ (D.L. Hughes, K. Marjani and R.L. Richards), 127

Titanium

The chemistry of 3-mercapto-1-propanol with Group 4 metallocene derivatives. The molecular structure of $\text{Cp}_2^*\text{ZrCl}(\text{OCH}_2\text{CH}_2\text{CH}_2\text{-SH})$ (C.-T. Chen and H.-M. Gau), 17

Transmetalation

Synthesis of cyclopalladated anils of benzoylferrocene via transmetalation reaction of mercurated ferrocenylketimines with Li_2PdCl_4 or by direct cyclopalladation reaction of ferrocenylketimines (Y.J. Wu, Y.H. Liu, K.L. Ding, H.Z. Yuan and X.A. Mao), 37

Tri-*t*-butyl-2,2':6,2"-terpyridine

Fluxional behavior of tert-butyl-substituted 2,2':6'2"-terpyridylmolybdenum(0) and 2,2'-bipyridylmolybdenum(II) complexes: enhanced solubility and ease in NMR study caused by the tert-butyl group (T. Daniel, N. Suzuki, K. Tanaka and A. Nakamura), 109

Tungsta-carbene

Structure and reactivity of metathesis-active tungsta-carbenes (L. Bencze and R. Szilágyi), 81

Tungsten

Group 6 homo-bimetallic carbonyl complexes containing polydentate phosphine ligands (D.-N. Horng and C.-H. Ueng), 53

Structure and reactivity of metathesis-active tungsta-carbenes (L. Bencze and R. Szilágyi), 81

The all-sodium salt of a polyoxoanion-supported organometallic complex: synthesis and characterization of $\text{Na}_7[(\eta^5\text{-C}_5\text{Me}_5)\text{Rh} \cdot \text{P}_2\text{W}_{15}\text{Nb}_3\text{O}_{62}] \cdot 7\text{DMSO} \cdot 5\text{H}_2\text{O}$ (K. Nomiya, C. Nozaki, M. Kaneko, R.G. Finke and M. Pohl), 23

Two phase system

A new, highly selective, water-soluble rhodium catalyst for methyl acrylate hydroformylation (G. Fremy, Y. Castanet, R. Grzybek, E. Monflier, A. Mortreux, A.M. Trzeciak and J.J. Ziolkowski), 11

Water-soluble phosphines

A new, highly selective, water-soluble rhodium catalyst for methyl acrylate hydroformylation (G. Fremy, Y. Castanet, R. Grzybek, E. Monflier, A. Mortreux, A.M. Trzeciak and J.J. Ziolkowski), 11

X-ray structure

Unexpected reactions of anionic intermediates $[(\mu\text{-RS})(\mu\text{-Se})\text{Fe}_2(\text{CO})_6]^-$ with SO_2Cl_2 . Synthesis of $[(\mu\text{-RS})\text{Fe}_2(\text{CO})_6]_2(\mu_4\text{-Se})(\text{R} = \text{Ph}, \text{Et}, {}^n\text{Pr}, {}^t\text{Bu})$ and crystal structure of $[(\mu\text{-PhS})\text{Fe}_2(\text{CO})_6]_2(\mu_4\text{-Se})$ (L.-C. Song, C.-G. Yan, Q.-M. Hu and X.-Y. Huang), 119

X-ray structures

New organo-cobalt complexes derived from cobaloximes with one or two diphenylboron moieties in the oxime bridges (R. Dreos, G.

Tauzher, S. Vuano, F. Asaro, G. Pellizer, G. Nardin, L. Randaccio and S. Geremia), 135

Ylide

Insertion of alkynes into molybdenum–phosphine and molybdenum–carbon bonds. X-ray structure of the phosphonium–alkylidene complex $[\text{MoO}(\text{C}(\text{Ph})\text{CH}=\text{C}(\text{Ph})\text{CH}_2\text{PMe}_2\text{Ph})(\text{SC}_6\text{H}_2^1\text{Pr}_3\text{-2,4,6})_3]$ (D.L. Hughes, K. Marjani and R.L. Richards), 127

Zirconium

Regio- and diastereo-selectivity of the insertion of aldehydes into alkyne zirconocene complexes (M.E. Maier and T. Oost), 95

The chemistry of 3-mercapto-1-propanol with Group 4 metallocene derivatives. The molecular structure of $\text{Cp}_2^*\text{ZrCl}(\text{OCH}_2\text{CH}_2\text{CH}_2\text{-SH})$ (C.-T. Chen and H.-M. Gau), 17