



Subject Index of Volume 516

Activation

Reduction during π -(cyclopentadienyliron) complexation of 1,8-dichloroanthracene (M. Del Rosario Benites, F.R. Fronczek and A.W. Maverick), 17

Acyl

Synthesis and crystal structure of $[(\eta^5\text{-C}_5\text{H}_5)_2\text{Ti}(\eta^2\text{-COR})_2\text{B}(\text{C}_6\text{H}_5)_3\text{CN}]$ (M. Pankowski, C. Cabestaing and G. Jaouen), 11

Alkoxohydridoaluminates

Alkoxohydridoaluminates: multinuclear NMR study of sodium hydrido-(2-methoxyethoxy)aluminates (Z. Černý, J. Fusek, J. Macháček, O. Kříž and B. Čášenský), 115

Alkyls

Dialkyldicarbonyl rhenium complexes $(\eta^5\text{-C}_5\text{Me}_5)_2\text{Re}(\text{CO})_2\text{R}_2$, R = Me and Et. X-ray structure of *trans*-($\eta^5\text{-C}_5\text{Me}_5)_2\text{Re}(\text{CO})_2\text{Et}_2$ (A.H. Klahn, C. Manzur, A. Toro and M. Moore), 51

Alkyne complexes

Regioselective phosphine attack on the coordinated alkyne in $\text{Co}_2(\mu\text{-alkyne})$ complexes. Reactivity studies and X-ray diffraction structures of $\text{Co}_2(\text{CO})_4(\text{bma})(\mu\text{-HC}\equiv\text{C}'\text{Bu})$ and the zwitterionic hydrocarbyl complexes $\text{Co}_2(\text{CO})_4[\mu\text{-}\eta^2\text{:}\eta^2\text{:}\eta^1\text{:}\eta^1\text{-RC}\equiv\text{C}(\text{R}')\text{PPh}_2\text{C}=\text{C}(\text{PPh}_2)\text{C}(\text{O})\text{OC}(\text{O})]$ (K. Yang, S.G. Bott and M.G. Richmond), 65

Aluminium

Alkoxohydridoaluminates: multinuclear NMR study of sodium hydrido-(2-methoxyethoxy)aluminates (Z. Černý, J. Fusek, J. Macháček, O. Kříž and B. Čášenský), 115

Aminophosphine

Phosphine oxides as ligands in the hydroformylation reaction (C. Abu-Gnim and I. Amer), 235

Anthracene

Reduction during π -(cyclopentadienyliron) complexation of 1,8-dichloroanthracene (M. Del Rosario Benites, F.R. Fronczek and A.W. Maverick), 17

Arene

Reduction during π -(cyclopentadienyliron) complexation of 1,8-dichloroanthracene (M. Del Rosario Benites, F.R. Fronczek and A.W. Maverick), 17

Arene clusters

Organometallic cluster complexes with face-capping arene ligands VII. Nucleophilic substitution of fluoride in a facially coordinated arene ligand (H. Wadeohl, T. Borchert and H. Pritzkow), 187

Aryllithium reagents

Reaction of tricarbonyl(*exo*-cyclopentadienyl- η^5 -cyclohexadienyl)-manganese with aryllithium reagents: crystal structures of $[\text{C}_5\text{H}_5\text{-}((\eta^5\text{-C}_6\text{H}_6)\text{CO})_2\text{Mn}=\text{C}(\text{OC}_2\text{H}_5)\text{C}_6\text{H}_5]$ and $[\text{C}_5\text{H}_5\text{-}((\eta^5\text{-C}_6\text{H}_6)\text{CO})_2\text{Mn}=\text{C}(\text{OC}_2\text{H}_5)\text{C}_6\text{H}_4\text{CH}_3\text{-}o]$ (Y. Yu, J. Chen, X. Wang, Q. Wu and Q. Liu), 81

Bicyclo [*k.l.m*]alkanes

Synthesis and reactions of polythiadisilabicyclo[*k.l.m*]alkanes (N. Choi, K. Asano, N. Sato and W. Ando), 155

Binuclear complex

Coordination chemistry of organometallic polydentate ligands. Studies on the syntheses and properties of Fe-M binuclear complexes prepared from organometallic tridentate ligand trans-Fe-(CO)₃(Ph₂Ppy)₂ (Ph₂Ppy = 2-(diphenylphosphino)pyridine) (Z.-Z. Zhang, H. Cheng, S.-M. Kuang, Y.-Q. Zhou, Z.-X. Liu, J.-K. Zhang and H.-G. Wang), 1

Carbene complexes

Reaction of tricarbonyl(*exo*-cyclopentadienyl- η^5 -cyclohexadienyl)-manganese with aryllithium reagents: crystal structures of $[\text{C}_5\text{H}_5\text{-}((\eta^5\text{-C}_6\text{H}_6)\text{CO})_2\text{Mn}=\text{C}(\text{OC}_2\text{H}_5)\text{C}_6\text{H}_5]$ and $[\text{C}_5\text{H}_5\text{-}((\eta^5\text{-C}_6\text{H}_6)\text{CO})_2\text{Mn}=\text{C}(\text{OC}_2\text{H}_5)\text{C}_6\text{H}_4\text{CH}_3\text{-}o]$ (Y. Yu, J. Chen, X. Wang, Q. Wu and Q. Liu), 81

Carbonyl

Reactions of orthomanganated aryl ketones with PhNSO and related species: a new route to orthomanganated imines (J.M. Cooney, L. Main and B.K. Nicholson), 191

Synthesis and characterization of dinuclear m- and o-xylene bridged complexes of cyclopentadienyltricarbonylmolybdenum and their derivatives. The crystal structure of bis(methylcyclopentadienyltricarbonylmolybdenum)- $\alpha,\alpha'\text{-o-xylene}$ (S. Lin, L.-K. Liu, N.-T. Wang and H.-Y. Wu), 207

Catalysis

Phosphine oxides as ligands in the hydroformylation reaction (C. Abu-Gnim and I. Amer), 235

Cobalt

Regioselective phosphine attack on the coordinated alkyne in $\text{Co}_2(\mu\text{-alkyne})$ complexes. Reactivity studies and X-ray diffraction structures of $\text{Co}_2(\text{CO})_4(\text{bma})(\mu\text{-HC}\equiv\text{C}'\text{Bu})$ and the zwitterionic hydrocarbyl complexes $\text{Co}_2(\text{CO})_4[\mu\text{-}\eta^2\text{:}\eta^2\text{:}\eta^1\text{:}\eta^1\text{-RC}\equiv\text{C}(\text{R}')\text{PPh}_2\text{C}=\text{C}(\text{PPh}_2)\text{C}(\text{O})\text{OC}(\text{O})]$ (K. Yang, S.G. Bott and M.G. Richmond), 65

Cr

Nucleophilic substitution reactions of (η^6 -fluorotoluene)Cr(CO)₃ and (η^6 -fluoroanisole)Cr(CO)₃ toward phenylacetylide, fluorenyl, indolinyl and carbazolinyl lithium: crystal structures of tricarbonyl [η^6 -(1,2-diphenylethynyl)benzene]chromium and tricarbonyl [η^6 -(1,4-fluorenyl)toluene]chromium (F.-E. Hong, S.-C. Lo, M.-W. Liou, L.-F. Chou and C.-C. Lin), 123

Crystal structure

[6-*O*-(1,2,3,4-Di-*O*-isopropylidene- α -D-galactopyranosyl)methyl]tin derivatives (P.J. Cox, S.J. Garden, R.A. Howie, O.A. Melvin and J.L. Wardell), 213

Dialkyldicarbonyl rhenium complexes $(\eta^5\text{-C}_5\text{Me}_5)_2\text{Re}(\text{CO})_2\text{R}_2$, R = Me and Et. X-ray structure of *trans*-($\eta^5\text{-C}_5\text{Me}_5)_2\text{Re}(\text{CO})_2\text{Et}_2$ (A.H. Klahn, C. Manzur, A. Toro and M. Moore), 51

Diorganotin 1,3-dithiole-2-thione-4,5-dithiolate compounds, R₂Sn(dmit): the crystal structure of MePhSn(dmit) (S.M.S.V. Doidge-Harrison, J.T.S. Irvine, A. Khan, G.M. Spencer, J.L. Wardell and J.H. Aupers), 199

- Novel zirconacyclopentadiene complex; 8,8-bis(cyclopentadienyl)-7,9-bis(trimethylstannyl)-8-zirconabicyclo[4.3.0]nona-1(9),6(7)-diene: synthesis, X-ray analysis, and catalytic activity for ethylene polymerization (K. Ouchi, M. Mitani, M. Hayakawa, T. Yamada and T. Mukaiyama), 111
- Reaction of tricarbonyl(*exo*-cyclopentadienyl- η^5 -cyclohexadienyl)-manganese with aryllithium reagents: crystal structures of $[C_5H_5\{(\eta^5-C_6H_6)CO_2Mn=C(OC_2H_5)C_6H_5\}]$ and $[C_5H_5\{(\eta^5-C_6H_6)CO_2Mn=C(OC_2H_5)C_6H_4CH_3-o\}]$ (Y. Yu, J. Chen, X. Wang, Q. Wu and Q. Liu), 81
- Reactions of orthomanganated aryl ketones with PhNSO and related species: a new route to orthomanganated imines (J.M. Cooney, L. Main and B.K. Nicholson), 191
- Synthetic, structural and electrochemical studies on some ferrocenylazaines: crystal structures of $[4](1)(1,4\text{-dimethyl-}2,3\text{-diazabuta-}1,3\text{-dien})\text{ferrocenophane}$ and $[4_2](1,1')\text{bis}(1,4\text{-dimethyl-}2,3\text{-diazabuta-}1,3\text{-dien})\text{ferrocenophane}$ (A.G. Osborne, M. Webba da Silva, M.B. Hursthause, K.M.A. Malik, G. Opronolla and P. Zanello), 167
- Cyanide**
- Synthesis and crystal structure of $[(\eta^5-C_5H_5)_2Ti(\eta^2\text{-COR})-B(C_6H_5)_3CN]$ (M. Pankowski, C. Cabestaing and G. Jaouen), 11
- Cyclopentadienyl**
- Synthesis and characterization of dinuclear m- and o-xylene bridged complexes of cyclopentadienyltricarbonylmolybdenum and their derivatives. The crystal structure of bis(methylcyclopentadienyltricarbonylmolybdenum)- α , α' - μ -o-xylene (S. Lin, L.-K. Liu, N.-T. Wang and H.-Y. Wu), 207
- Synthesis and crystal structure of $[(\eta^5-C_5H_5)_2Ti(\eta^2\text{-COR})-B(C_6H_5)_3CN]$ (M. Pankowski, C. Cabestaing and G. Jaouen), 11
- Cyclopentadienyl cobalt**
- Organometallic cluster complexes with face-capping arene ligands VII. Nucleophilic substitution of fluoride in a facially coordinated arene ligand (H. Wadeohl, T. Borchert and H. Pritzkow), 187
- Cyclopentadienyls**
- Dialkyldicarbonyl rhenium complexes ($\eta^5-C_5Me_5$)Re(CO)₂R₂, R = Me and Et. X-ray structure of *trans*- $(\eta^5-C_5Me_5)$ Re(CO)₂Et₂ (A.H. Klahn, C. Manzur, A. Toro and M. Moore), 51
- Neutral lanthanide silyl complexes via σ -bond metathesis reactions (N.S. Radu, T.D. Tilley and A.L. Rheingold), 41
- Reduction during π -(cyclopentadienyliron) complexation of 1,8-dichloroanthracene (M. Del Rosario Benites, F.R. Fronczek and A.W. Maverick), 17
- Dichlorocarbene**
- Synthesis of phosphine–borane complexes of P-heterocycles (G. Keglevich, K. Újszászy, Á. Szöllősy, K. Ludányi and L. Tőke), 139
- Dihydro-1H-phosphole**
- Synthesis of phosphine–borane complexes of P-heterocycles (G. Keglevich, K. Újszászy, Á. Szöllősy, K. Ludányi and L. Tőke), 139
- Dihydrophosphinine**
- Synthesis of phosphine–borane complexes of P-heterocycles (G. Keglevich, K. Újszászy, Á. Szöllősy, K. Ludányi and L. Tőke), 139
- Donor–acceptor bond**
- Coordination chemistry of organometallic polydentate ligands. Studies on the syntheses and properties of Fe–M binuclear complexes prepared from organometallic tridentate ligand $trans$ -Fe(CO)₃(Ph₂Ppy)₂ (Ph₂Ppy = 2-(diphenylphosphino)pyridine) (Z.-Z. Zhang, H. Cheng, S.-M. Kuang, Y.-Q. Zhou, Z.-X. Liu, J.-K. Zhang and H.-G. Wang), 1
- Electrochemistry**
- Regioselective phosphine attack on the coordinated alkyne in $Co_2(\mu\text{-alkyne})$ complexes. Reactivity studies and X-ray diffraction structures of $Co_2(CO)_4(bma)(\mu\text{-HC}\equiv C^1Bu)$ and the zwitterionic hydrocarbyl complexes $Co_2(CO)_4[\mu\text{-}\eta^2\text{:}\eta^2\text{:}\eta^1\text{:}\eta^1\text{-}RC=C(R')PPh_2C=C(PPh_2)C(O)OC(O)]$ (K. Yang, S.G. Bott and M.G. Richmond), 65
- Synthetic, structural and electrochemical studies on some ferrocenylazaines: crystal structures of $[4](1)(1,4\text{-dimethyl-}2,3\text{-diazabuta-}1,3\text{-dien})\text{ferrocenophane}$ and $[4_2](1,1')\text{bis}(1,4\text{-dimethyl-}2,3\text{-diazabuta-}1,3\text{-dien})\text{ferrocenophane}$ (A.G. Osborne, M. Webba da Silva, M.B. Hursthause, K.M.A. Malik, G. Opronolla and P. Zanello), 167
- EPR spectra**
- Synthesis and structure of trinuclear methoxy-bridged titanium(III)–magnesium complexes: $[(C_5H_{5-n}Me_n)_2Ti(\mu\text{-OMe})_2]_2Mg$ (n = 4 and 5) (R. Gyepes, J. Hiller, U. Thewalt, M. Polášek, P. Šindelář and K. Mach), 177
- Ethylene polymerization**
- Novel zirconacyclopentadiene complex; 8,8-bis(cyclopentadienyl)-7,9-bis(trimethylstannyl)-8-zirconabicyclo[4.3.0]nona-1(9),6(7)-diene: synthesis, X-ray analysis, and catalytic activity for ethylene polymerization (K. Ouchi, M. Mitani, M. Hayakawa, T. Yamada and T. Mukaiyama), 111
- Extended Hückel calculations**
- Regioselective phosphine attack on the coordinated alkyne in $Co_2(\mu\text{-alkyne})$ complexes. Reactivity studies and X-ray diffraction structures of $Co_2(CO)_4(bma)(\mu\text{-HC}\equiv C^1Bu)$ and the zwitterionic hydrocarbyl complexes $Co_2(CO)_4[\mu\text{-}\eta^2\text{:}\eta^2\text{:}\eta^1\text{:}\eta^1\text{-}RC=C(R')PPh_2C=C(PPh_2)C(O)OC(O)]$ (K. Yang, S.G. Bott and M.G. Richmond), 65
- Ferrocene**
- Ferrocene derivatives containing anthracene linked by spacers (G. Wagner, R. Herrmann and W. Scherer), 225
- Ferrocenophane**
- Synthetic, structural and electrochemical studies on some ferrocenylazaines: crystal structures of $[4](1)(1,4\text{-dimethyl-}2,3\text{-diazabuta-}1,3\text{-dien})\text{ferrocenophane}$ and $[4_2](1,1')\text{bis}(1,4\text{-dimethyl-}2,3\text{-diazabuta-}1,3\text{-dien})\text{ferrocenophane}$ (A.G. Osborne, M. Webba da Silva, M.B. Hursthause, K.M.A. Malik, G. Opronolla and P. Zanello), 167
- Ferrocenyl azines**
- Synthetic, structural and electrochemical studies on some ferrocenylazaines: crystal structures of $[4](1)(1,4\text{-dimethyl-}2,3\text{-diazabuta-}1,3\text{-dien})\text{ferrocenophane}$ and $[4_2](1,1')\text{bis}(1,4\text{-dimethyl-}2,3\text{-diazabuta-}1,3\text{-dien})\text{ferrocenophane}$ (A.G. Osborne, M. Webba da Silva, M.B. Hursthause, K.M.A. Malik, G. Opronolla and P. Zanello), 167
- Ferrocenyl ligands**
- Synthesis and molecular structures of palladium and platinum complexes of PTFA: models of Grignard cross-coupling catalysts (B. Jedlicka, R.E. Rülke, W. Weissensteiner, R. Fernández-Galán, F.A. Jalón, B.R. Manzano, J. Rodríguez-de la Fuente, N. Veldman, H. Kooijman and A.L. Spek), 97
- Germanium**
- [6-*O*-(1,2:3,4-Di-*O*-isopropylidene- α -D-galactopyranosyl)methyl]tin derivatives (P.J. Cox, S.J. Garden, R.A. Howie, O.A. Melvin and J.L. Wardell), 213
- Grignard cross-coupling catalysis**
- Synthesis and molecular structures of palladium and platinum complexes of PTFA: models of Grignard cross-coupling catalysts (B. Jedlicka, R.E. Rülke, W. Weissensteiner, R. Fernández-Galán,

- F.A. Jalón, B.R. Manzano, J. Rodríguez-de la Fuente, N. Veldman, H. Kooijman and A.L. Spek), 97
- Group 8**
- Reduction during π -(cyclopentadienyliron) complexation of 1,8-dichloroanthracene (M. Del Rosario Benites, F.R. Fronczek and A.W. Maverick), 17
- Hydride**
- Alkoxohydridoaluminates: multinuclear NMR study of sodium hydrido-(2-methoxyethoxy)aluminates (Z. Černý, J. Fusek, J. Macháček, O. Klíž and B. Čánský), 115
- Hydroaromatics**
- Reduction during π -(cyclopentadienyliron) complexation of 1,8-dichloroanthracene (M. Del Rosario Benites, F.R. Fronczek and A.W. Maverick), 17
- Hydroformylation**
- Phosphine oxides as ligands in the hydroformylation reaction (C. Abu-Gnim and I. Amer), 235
- Imines**
- Reactions of orthomanganated aryl ketones with PhNSO and related species: a new route to orthomanganated imines (J.M. Cooney, L. Main and B.K. Nicholson), 191
- Ion pairing**
- Alkoxohydridoaluminates: multinuclear NMR study of sodium hydrido-(2-methoxyethoxy)aluminates (Z. Černý, J. Fusek, J. Macháček, O. Klíž and B. Čánský), 115
- Iron**
- Ferrocene derivatives containing anthracene linked by spacers (G. Wagner, R. Herrmann and W. Scherer), 225
- Oxidative addition of disulfides to the fragment CpFe(dppe)⁺: steric and dielectric medium control on the reaction (C. Díaz, C. Leal and N. Yutronic), 59
- Reduction during π -(cyclopentadienyliron) complexation of 1,8-dichloroanthracene (M. Del Rosario Benites, F.R. Fronczek and A.W. Maverick), 17
- Synthetic, structural and electrochemical studies on some ferrocenylazines: crystal structures of [4]K(1,4-dimethyl-2,3-diazabuta-1,3-dien)ferrocenophane and [4₂]K(1,1')bis(1,4-dimethyl-2,3-diazabuta-1,3-dien)ferrocenophane (A.G. Osborne, M. Webba da Silva, M.B. Hursthouse, K.M.A. Malik, G. Opronolla and P. Zanello), 167
- Li**
- Nucleophilic substitution reactions of (η^6 -fluorotoluene)Cr(CO)₃ and (η^6 -fluoroanisole)Cr(CO)₃ toward phenylacetylide, fluorenyl, indolinyl and carbazolinyl lithium: crystal structures of tricarbonyl [η^6 -(1,2-diphenylethynyl)benzene]chromium and tricarbonyl[η^6 -(1,4-fluorenyl)toluene]chromium (F.-E. Hong, S.-C. Lo, M.-W. Liou, L.-F. Chou and C.-C. Lin), 123
- Manganese**
- Reaction of tricarbonyl(*exo*-cyclopentadienyl- η^5 -cyclohexadienyl)-manganese with aryllithium reagents: crystal structures of [C₅H₅-{(η^5 -C₆H₆)CO₂Mn=COC₂H₅)C₆H₅}]⁺ and [C₅H₅-{(η^5 -C₆H₆)CO₂Mn=C(O₂C₆H₅)C₆H₄CH₃-o}]⁺ (Y. Yu, J. Chen, X. Wang, Q. Wu and Q. Liu), 81
- Reactions of orthomanganated aryl ketones with PhNSO and related species: a new route to orthomanganated imines (J.M. Cooney, L. Main and B.K. Nicholson), 191
- Metallacycle**
- Novel zirconacyclopentadiene complex; 8,8-bis(cyclopentadienyl)-7,9-bis(trimethylstannyl)-8-zirconabicyclo[4.3.0]nona-1(9),6(7)-diene: synthesis, X-ray analysis, and catalytic activity for ethylene polymerization (K. Oouchi, M. Mitani, M. Hayakawa, T. Yamada and T. Mukaiyama), 111
- Methoxy-bridged**
- Synthesis and structure of trinuclear methoxy-bridged titanium(III)-magnesium complexes: [(C₅H_{5-n}Me_n)₂Ti(μ-OMe)₂]₂Mg (n = 4 and 5) (R. Gyepes, J. Hiller, U. Thewalt, M. Polášek, P. Šindelář and K. Mach), 177
- Molybdenum**
- Synthesis and characterization of dinuclear m- and o-xylene bridged complexes of cyclopentadienyltricarbonylmolybdenum and their derivatives. The crystal structure of bis(methylcyclopentadienyltricarbonylmolybdenum)- α , α' - μ -o-xylene (S. Lin, L.-K. Liu, N.-T. Wang and H.-Y. Wu), 207
- M multinuclear NMR studies**
- Preparation of and multinuclear NMR studies on intramolecular chalcogen-tin coordination in compounds of the type Me₂Sn(X)-CH₂-CH₂-CH₂-P(E)Ph₂ (X = halogen, E = chalcogen) (T.N. Mitchell and B. Godry), 133
- Neodymium**
- Neutral lanthanide silyl complexes via σ -bond metathesis reactions (N.S. Radu, T.D. Tilley and A.L. Rheingold), 41
- Nitrile complexes**
- Synthesis and crystal structure of [((η⁵-C₅H₅)₂Ti(η²-COR)-B(C₆H₅)₃CN] (M. Pankowski, C. Cabestaing and G. Jaouen), 11
- NMR spectroscopy**
- Alkoxohydridoaluminates: multinuclear NMR study of sodium hydrido-(2-methoxyethoxy)aluminates (Z. Černý, J. Fusek, J. Macháček, O. Klíž and B. Čánský), 115
- Nucleophilic substitution**
- Organometallic cluster complexes with face-capping arene ligands VII. Nucleophilic substitution of fluoride in a facially coordinated arene ligand (H. Wadeohl, T. Borchert and H. Pritzow), 187
- Organometallic polydentate ligand**
- Coordination chemistry of organometallic polydentate ligands. Studies on the syntheses and properties of Fe-M binuclear complexes prepared from organometallic tridentate ligand trans-Fe(CO)₃(Ph₂Ppy)₂ (Ph₂Ppy = 2-(diphenylphosphino)pyridine) (Z.-Z. Zhang, H. Cheng, S.-M. Kuang, Y.-Q. Zhou, Z.-X. Liu, J.-K. Zhang and H.-G. Wang), 1
- Orthometallation**
- Reactions of orthomanganated aryl ketones with PhNSO and related species: a new route to orthomanganated imines (J.M. Cooney, L. Main and B.K. Nicholson), 191
- Oxidative addition**
- Oxidative addition of disulfides to the fragment CpFe(dppe)⁺: steric and dielectric medium control on the reaction (C. Díaz, C. Leal and N. Yutronic), 59
- Palladium**
- Synthesis and molecular structures of palladium and platinum complexes of PTFA: models of Grignard cross-coupling catalysts (B. Jedlicka, R.E. Rülke, W. Weissensteiner, R. Fernández-Gálán, F.A. Jalón, B.R. Manzano, J. Rodríguez-de la Fuente, N. Veldman, H. Kooijman and A.L. Spek), 97
- Phosphabicyclohexane**
- Synthesis of phosphine-borane complexes of P-heterocycles (G. Keglevich, K. Újsászy, Á. Szöllősy, K. Ludányi and L. Tóke), 139
- Phosphepine**
- Synthesis of phosphine-borane complexes of P-heterocycles (G. Keglevich, K. Újsászy, Á. Szöllősy, K. Ludányi and L. Tóke), 139

- Phosphine–borane complex**
Synthesis of phosphine–borane complexes of P-heterocycles (G. Keglevich, K. Újszászy, Á. Szöllősy, K. Ludányi and L. Tóke), 139
- Phosphine complexes**
Regioselective phosphine attack on the coordinated alkyne in $\text{Co}_2(\mu\text{-alkyne})$ complexes. Reactivity studies and X-ray diffraction structures of $\text{Co}_2(\text{CO})_4(\text{bma})(\mu\text{-HC}\equiv\text{C}^t\text{Bu})$ and the zwitterionic hydrocarbyl complexes $\text{Co}_2(\text{CO})_4[\mu\text{-}\eta^2\text{:}\eta^2\text{:}\eta^1\text{:}\eta^1\text{-RC=C(R')PPH}_2\text{C=C(PPh}_2\text{)C(O)OC(O)}]$ (K. Yang, S.G. Bott and M.G. Richmond), 65
- Phosphine oxide**
Phosphine oxides as ligands in the hydroformylation reaction (C. Abu-Gnim and I. Amer), 235
- Photochemistry**
The exploratory far-UV photochemistry of 1-methyl-1-silabicyclo[2.2.1]hept-2-ene and 2-trimethylsilylbicyclo[2.2.1]hept-2-ene (M.G. Steinmetz, Q. Chen and Y. Zheng), 25
- Platinum**
Synthesis and molecular structures of palladium and platinum complexes of PTFA: models of Grignard cross-coupling catalysts (B. Jedlicka, R.E. Rülke, W. Weissensteiner, R. Fernández-Galán, F.A. Jalón, B.R. Manzano, J. Rodríguez-de la Fuente, N. Veldman, H. Kooijman and A.L. Spek), 97
- ^{31}P NMR: Intramolecular chalcogen–tin coordination**
Preparation of and multinuclear NMR studies on intramolecular chalcogen–tin coordination in compounds of the type $\text{Me}_2\text{Sn}(X)\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-P(E)Ph}_2$ (X = halogen, E = chalcogen) (T.N. Mitchell and B. Godry), 133
- Polysilanes**
Modifizierungsreaktionen an Polyphenylsilin und vernetzten Polysilanen (W. Uhlig), 147
- Polysilynes**
Modifizierungsreaktionen an Polyphenylsilin und vernetzten Polysilanen (W. Uhlig), 147
- Polysulfide**
Synthesis and reactions of polythiadisilabicyclo[*k.l.m*]alkanes (N. Choi, K. Asano, N. Sato and W. Ando), 155
- Potassium–graphite**
Modifizierungsreaktionen an Polyphenylsilin und vernetzten Polysilanen (W. Uhlig), 147
- Pyranose derivatives**
[6-O-(1,2;3,4-Di-O-isopropylidene- α -D-galactopyranosyl)methyl]tin derivatives (P.J. Cox, S.J. Garden, R.A. Howie, O.A. Melvin and J.L. Wardell), 213
- Reactions**
Reaction of tricarbonyl(*exo*-cyclopentadienyl- η^5 -cyclohexadienyl)-manganese with aryllithium reagents: crystal structures of $[\text{C}_5\text{H}_5\text{-}(\{\eta^5\text{-C}_6\text{H}_6\}\text{CO})_2\text{Mn=C(OC}_2\text{H}_5\text{)C}_6\text{H}_5\}]$ and $[\text{C}_5\text{H}_5\text{-}(\{\eta^5\text{-C}_6\text{H}_6\}\text{CO})_2\text{Mn=C(OC}_2\text{H}_5\text{)C}_6\text{H}_4\text{CH}_3\text{-}o)]$ (Y. Yu, J. Chen, X. Wang, Q. Wu and Q. Liu), 81
- Rearrangement**
The exploratory far-UV photochemistry of 1-methyl-1-silabicyclo[2.2.1]hept-2-ene and 2-trimethylsilylbicyclo[2.2.1]hept-2-ene (M.G. Steinmetz, Q. Chen and Y. Zheng), 25
- Rhenium**
Dialkyldicarbonyl rhenium complexes ($\eta^5\text{-C}_5\text{Me}_5\text{)Re(CO)}_2\text{R}_2$, R = Me and Et. X-ray structure of *trans*-($\eta^5\text{-C}_5\text{Me}_5\text{)Re(CO)}_2\text{Et}_2$) (A.H. Klahn, C. Manzur, A. Toro and M. Moore), 51
- Rhodium**
Phosphine oxides as ligands in the hydroformylation reaction (C. Abu-Gnim and I. Amer), 235
- Samarium**
Neutral lanthanide silyl complexes via σ -bond metathesis reactions (N.S. Radu, T.D. Tilley and A.L. Rheingold), 41
- Silane Direct synthesis**
Effects of hydrogen chloride addition to the direct reaction of methylene chloride with elemental silicon (S.H. Yeon, J.S. Han, B.R. Yoo and I.N. Jung), 91
- 1-Silanborcene**
The exploratory far-UV photochemistry of 1-methyl-1-silabicyclo[2.2.1]hept-2-ene and 2-trimethylsilylbicyclo[2.2.1]hept-2-ene (M.G. Steinmetz, Q. Chen and Y. Zheng), 25
- Silicon**
Effects of hydrogen chloride addition to the direct reaction of methylene chloride with elemental silicon (S.H. Yeon, J.S. Han, B.R. Yoo and I.N. Jung), 91
- Neutral lanthanide silyl complexes via σ -bond metathesis reactions (N.S. Radu, T.D. Tilley and A.L. Rheingold), 41
- Novel zirconacyclopentadiene complex; 8,8-bis(cyclopentadienyl)-7,9-bis(trimethylstannyl)-8-zirconabicyclo[4.3.0]nona-1(9),6(7)-diene: synthesis, X-ray analysis, and catalytic activity for ethylene polymerization (K. Ouchi, M. Mitani, M. Hayakawa, T. Yamada and T. Mukaiyama), 111
- Synthesis and reactions of polythiadisilabicyclo[*k.l.m*]alkanes (N. Choi, K. Asano, N. Sato and W. Ando), 155
- The exploratory far-UV photochemistry of 1-methyl-1-silabicyclo[2.2.1]hept-2-ene and 2-trimethylsilylbicyclo[2.2.1]hept-2-ene (M.G. Steinmetz, Q. Chen and Y. Zheng), 25
- 2-Silylnorbornene**
The exploratory far-UV photochemistry of 1-methyl-1-silabicyclo[2.2.1]hept-2-ene and 2-trimethylsilylbicyclo[2.2.1]hept-2-ene (M.G. Steinmetz, Q. Chen and Y. Zheng), 25
- Silyls**
Neutral lanthanide silyl complexes via σ -bond metathesis reactions (N.S. Radu, T.D. Tilley and A.L. Rheingold), 41
- Silyl triflates**
Modifizierungsreaktionen an Polyphenylsilin und vernetzten Polysilanen (W. Uhlig), 147
- ^{119}Sn NMR**
Preparation of and multinuclear NMR studies on intramolecular chalcogen–tin coordination in compounds of the type $\text{Me}_2\text{Sn}(X)\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-P(E)Ph}_2$ (X = halogen, E = chalcogen) (T.N. Mitchell and B. Godry), 133
- Structure**
Coordination chemistry of organometallic polydentate ligands. Studies on the syntheses and properties of Fe–M binuclear complexes prepared from organometallic tridentate ligand trans-Fe($\text{CO})_3(\text{Ph}_2\text{Ppy})_2$ (Ph_2Ppy = 2-(diphenylphosphino)pyridine) (Z.-Z. Zhang, H. Cheng, S.-M. Kuang, Y.-Q. Zhou, Z.-X. Liu, J.-K. Zhang and H.-G. Wang), 1
- Sulfur**
Synthesis and reactions of polythiadisilabicyclo[*k.l.m*]alkanes (N. Choi, K. Asano, N. Sato and W. Ando), 155
- Synthesis**
Coordination chemistry of organometallic polydentate ligands. Studies on the syntheses and properties of Fe–M binuclear complexes prepared from organometallic tridentate ligand trans-Fe($\text{CO})_3(\text{Ph}_2\text{Ppy})_2$ (Ph_2Ppy = 2-(diphenylphosphino)pyridine) (Z.-Z. Zhang, H. Cheng, S.-M. Kuang, Y.-Q. Zhou, Z.-X. Liu, J.-K. Zhang and H.-G. Wang), 1
- The exploratory far-UV photochemistry of 1-methyl-1-silabicyclo[2.2.1]hept-2-ene and 2-trimethylsilylbicyclo[2.2.1]hept-2-ene (M.G. Steinmetz, Q. Chen and Y. Zheng), 25

Thiolate complexes

Oxidative addition of disulfides to the fragment $\text{CpFe}(\text{dppe})^+$: steric and dielectric medium control on the reaction (C. Díaz, C. Leal and N. Yutronic), 59

Thiolato

Diorganotin 1,3-dithiole-2-thione-4,5-dithiolate compounds, $\text{R}_2\text{Sn}(\text{dmit})$: the crystal structure of $\text{MePhSn}(\text{dmit})$ (S.M.S.V. Doidge-Harrison, J.T.S. Irvine, A. Khan, G.M. Spencer, J.L. Wardell and J.H. Aupers), 199

Thione

Diorganotin 1,3-dithiole-2-thione-4,5-dithiolate compounds, $\text{R}_2\text{Sn}(\text{dmit})$: the crystal structure of $\text{MePhSn}(\text{dmit})$ (S.M.S.V. Doidge-Harrison, J.T.S. Irvine, A. Khan, G.M. Spencer, J.L. Wardell and J.H. Aupers), 199

Tin

[6-*O*-(1,2:3,4-Di-*O*-isopropylidene- α -D-galactopyranosyl)methyl]tin derivatives (P.J. Cox, S.J. Garden, R.A. Howie, O.A. Melvin and J.L. Wardell), 213

Diorganotin 1,3-dithiole-2-thione-4,5-dithiolate compounds, $\text{R}_2\text{Sn}(\text{dmit})$: the crystal structure of $\text{MePhSn}(\text{dmit})$ (S.M.S.V. Doidge-Harrison, J.T.S. Irvine, A. Khan, G.M. Spencer, J.L. Wardell and J.H. Aupers), 199

Novel zirconacyclopentadiene complex; 8,8-bis(cyclopentadienyl)-7,9-bis(trimethylstannyl)-8-zirconabicyclo[4.3.0]nona-1(9),6(7)-diene: synthesis, X-ray analysis, and catalytic activity for ethylene polymerization (K. Ouchi, M. Mitani, M. Hayakawa, T. Yamada and T. Mukaiyama), 111

Titanium

Synthesis and crystal structure of $[(\eta^5\text{-C}_5\text{H}_5)_2\text{Ti}(\eta^2\text{-COR})-\text{B}(\text{C}_6\text{H}_5)_3\text{CN}]$ (M. Pankowski, C. Cabestaing and G. Jaouen), 11

Synthesis and structure of trinuclear methoxy-bridged titanium(III)–magnesium complexes: $[(\text{C}_5\text{H}_{5-n}\text{Me}_n)_2\text{Ti}(\mu\text{-OMe})_2]_2\text{Mg}$ ($n = 4$ and 5) (R. Gyepes, J. Hiller, U. Thewalt, M. Polášek, P. Šindelář and K. Mach), 177

Titanium(III)–magnesium complexes

Synthesis and structure of trinuclear methoxy-bridged titanium(III)–magnesium complexes: $[(\text{C}_5\text{H}_{5-n}\text{Me}_n)_2\text{Ti}(\mu\text{-OMe})_2]_2\text{Mg}$ ($n = 4$

and 5) (R. Gyepes, J. Hiller, U. Thewalt, M. Polášek, P. Šindelář and K. Mach), 177

X-ray structure

Synthesis and crystal structure of $[(\eta^5\text{-C}_5\text{H}_5)_2\text{Ti}(\eta^2\text{-COR})-\text{B}(\text{C}_6\text{H}_5)_3\text{CN}]$ (M. Pankowski, C. Cabestaing and G. Jaouen), 11

Synthesis and molecular structures of palladium and platinum complexes of PTFA: models of Grignard cross-coupling catalysts (B. Jedlicka, R.E. Rülke, W. Weissensteiner, R. Fernández-Galán, F.A. Jalón, B.R. Manzano, J. Rodríguez-de la Fuente, N. Veldman, H. Kooijman and A.L. Spek), 97

Synthesis and structure of trinuclear methoxy-bridged titanium(III)–magnesium complexes: $[(\text{C}_5\text{H}_{5-n}\text{Me}_n)_2\text{Ti}(\mu\text{-OMe})_2]_2\text{Mg}$ ($n = 4$ and 5) (R. Gyepes, J. Hiller, U. Thewalt, M. Polášek, P. Šindelář and K. Mach), 177

X-ray structure analysis

Ferrocene derivatives containing anthracene linked by spacers (G. Wagner, R. Herrmann and W. Scherer), 225

Xylenes

Synthesis and characterization of dinuclear m- and o-xylene bridged complexes of cyclopentadienyltricarbonylmolybdenum and their derivatives. The crystal structure of bis(methylcyclopentadienyltricarbonylmolybdenum)- $\alpha,\alpha'\text{-}\mu\text{-o-xylene}$ (S. Lin, L.-K. Liu, N.-T. Wang and H.-Y. Wu), 207

Yttrium

Neutral lanthanide silyl complexes via σ -bond metathesis reactions (N.S. Radu, T.D. Tilley and A.L. Rheingold), 41

Zirconium

Novel zirconacyclopentadiene complex; 8,8-bis(cyclopentadienyl)-7,9-bis(trimethylstannyl)-8-zirconabicyclo[4.3.0]nona-1(9),6(7)-diene: synthesis, X-ray analysis, and catalytic activity for ethylene polymerization (K. Ouchi, M. Mitani, M. Hayakawa, T. Yamada and T. Mukaiyama), 111