

Subject Index of Volume 510

Ab initio

Unimolecular rearrangement of α -silylcarbenium ions. An ab initio study (S.G. Cho), 25

Acetylacetonate

Cyclometallated compounds of palladium(II) with a 2,4-pentanedionate: the X-ray crystal structure of $[\text{Pd}(4\text{-}(\text{CHO})\text{C}_6\text{H}_3\text{C}(\text{H})=\text{NCy})(\text{H}_3\text{CCOCHCOCH}_3)]$ (J.M. Vila, M. Gayoso, M.T. Pereira, M. López Torres, J.J. Fernández, A. Fernández and B.E. Rivero), 51

Alkyls

Preparation and characterization of mixed alkyl amido complexes of gallium (S.T. Barry and D.S. Richeson), 103

Alkynyl

Photochemical reactions of alkynyl iron (II) complexes with carbon disulfide. Insertion of CS_2 into an iron–C(sp) bond (V. Cadierno, M.P. Gamasa, J. Gimeno and E. Lastra), 207

Synthesis and characterization of cationic heteronuclear complexes of platinum(II) and silver(I) bridged by alkynyl ligands (I. Ara, J.R. Berenguer, J. Forniés, E. Lalinde and M.T. Moreno), 63

Amines

Preparation and characterization of mixed alkyl amido complexes of gallium (S.T. Barry and D.S. Richeson), 103

Aqua complex

Oxidation of organometallic complexes by water: Synthesis of diorgano(hydroxo)platinum(IV) complexes and the structure of a diorgano(aqua)platinum(IV) complex of tris(pyridin-2-yl)methanol, $[\text{PtPh}_2(\text{py})_3\text{COH-}N,N',N''](\text{OH}_2)]\text{[NO}_3\text{]}_2 \cdot \text{H}_2\text{O}$ (A.J. Canty, S.D. Fritsche, H. Jin, R.T. Honeyman, B.W. Skelton and A.H. White), 281

Arene complexes

Syntheses and structures of bis(tricarbonylchromium)-substituted α,ω -diphenylhexatriene complexes (T.M. Gilbert, F.J. Hadley, M.D. Simmons, C.B. Bauer and R.D. Rogers), 83

Bissilylation

Novel method for preparing bis(trimethylsilyl)amines via treatment with trimethylsilylamines and methyl iodide (Y. Hamada, Y. Yamamoto and H. Shimizu), 1

Bis(trifluoromethyl)phosphine

Reactions of tetrakis(trifluoromethyl)diphosphine and bis(trifluoromethyl)phosphine with ruthenium carbonyl clusters; X-ray structure of tetraruthenium carbonyl cluster derivatives (H.G. Ang, S.G. Ang, S.W. Du, B.H. Sow and A.L. Rheingold), 13

Bis(trimethylsilyl)amine

Novel method for preparing bis(trimethylsilyl)amines via treatment with trimethylsilylamines and methyl iodide (Y. Hamada, Y. Yamamoto and H. Shimizu), 1

Bond energy

Thermochemistry of organosilicon compounds. VII. Permethylcyclosilazanes and 1,1,3,3-tetramethyldisilazane (M.G. Voronkov, V.A. Klyuchnikov and L.I. Marenkova), 263

Bond lengths and strengths

How bridging ligands and neighbouring groups tune the gold–gold bond strength (L.F. Veiros and M.J. Calhorda), 71

Bridging ligands

How bridging ligands and neighbouring groups tune the gold–gold bond strength (L.F. Veiros and M.J. Calhorda), 71

Synthesis and structural characterization of $(\mu\text{-H})_2\text{Ru}_3(\text{CO})_9(\mu_3\text{-}\eta^2\text{-C}_8\text{H}_{12})$ and $(\mu\text{-H})\text{Ru}_3(\text{CO})_9(\mu_3\text{-}\eta^3\text{-C}_{12}\text{H}_{19})$ (K.O. Kallinen, M. Ahlgrén, T.T. Pakkanen and T.A. Pakkanen), 37

Bulky ligands

Preparation, spectroscopic properties and thermal stabilities of organomercury compounds containing the bulky ligand $(\text{Me}_3\text{Si})_3\text{C}$ or $(\text{PhMe}_2\text{Si})_3\text{C}$ (S.S. Al-Juaid, C. Eaborn, P.D. Lickiss, J.D. Smith, K. Tavakkoli and A.D. Webb), 142

sec Butyl

Selective crystallization of di-sec-butylmagnesium. *N,N,N',N'*-tetramethylethylenediamine from solutions containing mixtures of normal-butyl and secondary-butyl isomers (N.D.R. Barnett, W. Clegg, R.E. Mulvey, P.A. O'Neil and D. Reed), 297

Carbamate

Preparation, crystal structure and thermal decomposition study of some trimethylsilyl esters of dicarbamic acids (R. Szalay, Zs. Böcskei, D. Knausz, Cs. Lovász, K. Újzász, L. Szakács and P. Sohár), 93

Carbonyl

Organoruthenium chalcogen complexes: synthesis of *tert*-butylcyclopentadienyl dicarbonyl ruthenium thio- and seleno-carboxylate complexes and crystal structure determination of $(^t\text{Bu-C}_5\text{H}_4)\text{Ru}(\text{CO})_2\text{SCO}(3\text{-NO}_2\text{-C}_6\text{H}_4)$ and $(^t\text{Bu-C}_5\text{H}_4)\text{Ru}(\text{CO})_2\text{SeCO}(3,5\text{-}(\text{NO}_2)_2\text{-C}_6\text{H}_3)$ (I. Jibril, F.T. Esmadi, H. Al-Masri, L. Zsolnai and G. Hutner), 109

Some additional aspects of versatile starting compounds for cationic organoiron complexes: molecular structure of the aqua complex $[(\eta^5\text{-C}_5\text{Me}_4\text{Et})\text{Fe}(\text{CO})_2(\text{OH}_2)]\text{BF}_4$ and solution behavior of the THF complex $[(\eta^5\text{-C}_5\text{R}_5)\text{Fe}(\text{CO})_2(\text{THF})]\text{BF}_4$ (M. Akita, M. Terada, M. Tanaka and Y. Morooka), 255

Syntheses, structures and reactivities of $[\text{Os}_6\text{Pd}(\text{CO})_{18}(\text{bipy})]$ and $[\{(\text{bipy})\text{Pd}\}_2\text{Os}_3(\text{CO})_{12}]$: crystal and molecular structures of $[\{(\text{bipy})\text{Pd}\}_2(\mu\text{-H})(\mu\text{-CO})][\text{H}_3\text{Os}_4(\text{CO})_{12}]$ and $[(\text{C}_4\text{H}_9)_4\text{N}]_2\text{[Pd}_2\text{I}_6]$ (S. Chan, S.-M. Lee, Z. Lin and W.-T. Wong), 219

The chemistry of compounds of the type $\text{Ru}(\eta^5\text{-C}_5\text{Me}_4\text{Et})(\text{CO})_2\text{X}$ (X = Cl, Br or I) (K. Tabatabaieian and C. White), 135

Carbonyls

Synthesis and structure of the iron-substituted silylacetylene $[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{CO})_2\text{SiMe}_2\text{C}_2]$ and its cobalt hexacarbonyl derivative $[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{CO})_2\text{SiMe}_2\text{C}_2 \cdot \text{Co}_2(\text{CO})_6]$ (E. Ramirez-Oliva, J. Cervantes, F. Cervantes-Lee, R.N. Kapoor and K.H. Pannell), 57

Cationic

Halide abstraction as a route to cationic molybdenum(IV) compounds: crystal and molecular structure of $[\text{CpMoCl}(\text{MeCN})_4][\text{SbCl}_6]_2 \cdot \text{MeCN}$ (G.R. Willey, T.J. Woodman and M.G.B. Drew), 213

Chalcogen

Organoruthenium chalcogen complexes: synthesis of *tert*-butyl-cyclopentadienyl dicarbonyl ruthenium thio- and seleno-carboxylate complexes and crystal structure determination of (¹Bu-C₅H₄)Ru(CO)₂SCO(3-NO₂-C₆H₄) and (¹Bu-C₅H₄)Ru(CO)₂-SeCO(3,5-(NO₂)₂-C₆H₃) (I. Jibril, F.T. Esmadi, H. Al-Masri, L. Zsolnai and G. Huttner), 109

Charge transfer

Dibenzo[*b,e*]-7,7,8,8-tetraneopentyl- and dibenzo[*b,e*]-7,7,8,8-tetra-isopropyl-7,8-disilabicyclo[2.2.2]octa-2,5-dienes: interaction with tetracyanoethylene and transition metal chlorides (S. Kyushin, M. Ikarugi, K. Takatsuna, M. Goto and H. Matsumoto), 121

Chirality

Chiroptische Effekte von Lanthanoidorganen mit optisch aktiven Liganden. III. Erschließung wohldefinierter chiraler Organosamarium(III)-Verbindungen durch Umsetzung von Tris(cyclopentadienyl)samarium mit (1*S*,2*R*,5*R*)-Isomenthol, (R)-(+)-Isobutyl-lactat und (R)-(+)-Methyl-*p*-tolylsulfoxid (A. Steudel, J. Stehr, E. Siebel und R.D. Fischer), 197

Chloride

Ligand migrations during the formation of some palladium–rhodium heterodinuclear complexes (S.-j. Lu, F.-p. Wei, X.-d. Wang, H.-q. Wang and L.-r. Huang), 7

Chromium

Syntheses and structures of bis(tricarbonylchromium)-substituted α,ω -diphenylhexatriene complexes (T.M. Gilbert, F.J. Hadley, M.D. Simmons, C.B. Bauer and R.D. Rogers), 83

f-f-Circular dichroism

Chiroptische Effekte von Lanthanoidorganen mit optisch aktiven Liganden. III. Erschließung wohldefinierter chiraler Organosamarium(III)-Verbindungen durch Umsetzung von Tris(cyclopentadienyl)samarium mit (1*S*,2*R*,5*R*)-Isomenthol, (R)-(+)-Isobutyl-lactat und (R)-(+)-Methyl-*p*-tolylsulfoxid (A. Steudel, J. Stehr, E. Siebel und R.D. Fischer), 197

Clusters

Syntheses, structures and reactivities of [Os₆Pd(CO)₁₈(bipy)] and [(bipy)Pd]₂Os₃(CO)₁₂: crystal and molecular structures of [(bipy)Pd]₂(μ -H)(μ -CO)[H₃Os₄(CO)₁₂] and [(C₄H₉)₄N]₂[Pd₂I₆] (S. Chan, S.-M. Lee, Z. Lin and W.-T. Wong), 219

Synthesis and structural characterization of (μ -H)₂Ru₃(CO)₉(μ_3 - η^2 -C₈H₁₂) and (μ -H)Ru₃(CO)₉(μ_3 - η^3 -C₁₂H₁₉) (K.O. Kallinen, M. Ahlgrén, T.T. Pakkanen and T.A. Pakkanen), 37

Cobalt

Synthesis and characterisation of [(C₅Me₄R)₂NbS₂]₂M complexes (M = Fe, Co; R = Me, Et): organometallic tetrathiometalates with niobocene ligands (H. Brunner, M.M. Kubicki, G. Gehart, E. Lehrl, D. Lucas, W. Meier, Y. Mugnier, B. Nuber, B. Stubenhofer and J. Wachter), 291

Synthesis and structure of the iron-substituted silylacetylene [(η^5 -C₅H₅)Fe(CO)₂SiMe₂C]₂ and its cobalt hexacarbonyl derivative [(η^5 -C₅H₅)Fe(CO)₂SiMe₂C]₂·Co₂(CO)₆ (E. Ramirez-Oliva, J. Cervantes, F. Cervantes-Lee, R.N. Kapoor and K.H. Pannell), 57

6-coordination

Crystallographic evidence of hexacoordination at phosphorus via intramolecular coordination of donor groups on phosphane and phosphane sulphide (M. Chauhan, C. Chuit, R.J.P. Corriu, C. Reyé, J.-P. Declercq and A. Dubourg), 173

Crystal structure

Dibenzo[*b,e*]-7,7,8,8-tetraneopentyl- and dibenzo[*b,e*]-7,7,8,8-tetra-isopropyl-7,8-disilabicyclo[2.2.2]octa-2,5-dienes: interaction with tetracyanoethylene and transition metal chlorides (S. Kyushin, M. Ikarugi, K. Takatsuna, M. Goto and H. Matsumoto), 121

Halide abstraction as a route to cationic molybdenum(IV) compounds: crystal and molecular structure of [CpMoCl(MeCN)₄][SbCl₆]₂·MeCN (G.R. Willey, T.J. Woodman and M.G.B. Drew), 213

Organoruthenium chalcogen complexes: synthesis of *tert*-butyl-cyclopentadienyl dicarbonyl ruthenium thio- and seleno-carboxylate complexes and crystal structure determination of (¹Bu-C₅H₄)Ru(CO)₂SCO(3-NO₂-C₆H₄) and (¹Bu-C₅H₄)Ru(CO)₂-SeCO(3,5-(NO₂)₂-C₆H₃) (I. Jibril, F.T. Esmadi, H. Al-Masri, L. Zsolnai and G. Huttner), 109

Oxidation of organometallic complexes by water: Synthesis of diorgano(hydroxo)platinum(IV) complexes and the structure of a diorgano(aqua)platinum(IV) complex of tris(pyridin-2-yl)methanol, [PtPh₂(py)₃COH-*N,N',N''*](OH₂)[NO₃]₂·H₂O (A.J. Canty, S.D. Fritsche, H. Jin, R.T. Honeyman, B.W. Skelton and A.H. White), 281

Preparation, crystal structure and thermal decomposition study of some trimethylsilyl esters of dicarbamic acids (R. Szalay, Zs. Böcskei, D. Knausz, Cs. Lovász, K. Újszászy, L. Szakács and P. Sohár), 93

Selective crystallization of di-*sec*-butylmagnesium. *N,N,N',N'*-tetramethylethylenediamine from solutions containing mixtures of normal-butyl and secondary-butyl isomers (N.D.R. Barnett, W. Clegg, R.E. Mulvey, P.A. O'Neil and D. Reed), 297

Seven-coordinate dioxygen complexes from dioxygen addition to five-coordinate σ -phenyl, isocyanide-containing derivatives of ruthenium(II) and osmium(II). Crystal structures of Os(η^2 -O₂)(η^2 -CPh=N-*p*-chlorophenyl)Cl(PPh₃)₂ and Os(η^2 -SO₄)(η^2 -CPh=N-*p*-chlorophenyl)Cl(PPh₃)₂ (S.M. Maddock, C.E.F. Rickard, W.R. Roper and L.J. Wright), 267

Some additional aspects of versatile starting compounds for cationic organoiron complexes: molecular structure of the aqua complex [(η^5 -C₅Me₄Et)Fe(CO)₂(OH₂)]BF₄ and solution behavior of the THF complex [(η^5 -C₅R₅)Fe(CO)₂(THF)]BF₄ (M. Akita, M. Terada, M. Tanaka and Y. Morooka), 255

Syntheses, structures and reactivities of [Os₆Pd(CO)₁₈(bipy)] and [(bipy)Pd]₂Os₃(CO)₁₂: crystal and molecular structures of [(bipy)Pd]₂(μ -H)(μ -CO)[H₃Os₄(CO)₁₂] and [(C₄H₉)₄N]₂[Pd₂I₆] (S. Chan, S.-M. Lee, Z. Lin and W.-T. Wong), 219

Synthesis and structure of 1:1 complex of dimethyltin dichloride with *meso*-1,2-bis(α -diethoxyphosphoryl)benzylamino)ethane (J. Lorberth, S. Wocadlo, W. Massa, E.V. Grigoriev, N.S. Yashina, V.S. Petrosyan and P. Finocchiaro), 287

Synthesis, characterization and structure of the ethylene-bridged dimer [Cp(CO)₂RuCH₂CH₂Ru(CO)₂Cp] and comparison of its reactivity with that of [Cp(CO)₂RuCH₂CH₃] and [Cp(CO)₂Ru(CH₂)₅-Ru(CO)₂Cp]: models for Fischer–Tropsch surface intermediates (M.A. Gafoor, A.T. Hutton and J.R. Moss), 233

CS₂ insertion

Photochemical reactions of alkynyl iron (II) complexes with carbon disulfide. Insertion of CS₂ into an iron–C(sp) bond (V. Cadierno, M.P. Gamasa, J. Gimeno and E. Lastra), 207

Cyanide

Ligand migrations during the formation of some palladium–rhodium heterodinuclear complexes (S.-j. Lu, F.-p. Wei, X.-d. Wang, H.-q. Wang and L.-r. Huang), 7

Cyclododecene

Synthesis and structural characterization of (μ -H)₂Ru₃(CO)₉(μ_3 - η^2 -C₈H₁₂) and (μ -H)Ru₃(CO)₉(μ_3 - η^3 -C₁₂H₁₉) (K.O. Kallinen, M. Ahlgrén, T.T. Pakkanen and T.A. Pakkanen), 37

Cyclometallation

Cyclometallated compounds of palladium(II) with a 2,4-pentanedionate: the X-ray crystal structure of [Pd(4-(CHO)C₆H₃C-

- (H)=NCy)(H₃CCOCHCOCH₃)] (J.M. Vila, M. Gayoso, M.T. Pereira, M. López Torres, J.J. Fernández, A. Fernández and B.E. Rivero), 51
- Cyclooctene**
 Synthesis and structural characterization of (μ -H)₂Ru₃(CO)₉(μ_3 - η^2 -C₈H₁₂) and (μ -H)Ru₃(CO)₉(μ_3 - η^3 -C₁₂H₁₈) (K.O. Kallinen, M. Ahlgrén, T.T. Pakkanen and T.A. Pakkanen), 37
- Cyclopentadienyl**
 Halide abstraction as a route to cationic molybdenum(IV) compounds: crystal and molecular structure of [CpMoCl(MeCN)₄][SbCl₆]₂ · MeCN (G.R. Willey, T.J. Woodman and M.G.B. Drew), 213
 Organoruthenium chalcogen complexes: synthesis of *tert*-butylcyclopentadienyl dicarbonyl ruthenium thio- and seleno-carboxylate complexes and crystal structure determination of (¹Bu-C₅H₄)Ru(CO)₂SCO(3-NO₂-C₆H₄) and (¹Bu-C₅H₄)Ru(CO)₂-SeCO(3,5-(NO₂)₂-C₆H₃) (I. Jibril, F.T. Esmadi, H. Al-Masri, L. Zsolnai and G. Huttner), 109
 Synthesis, characterization and structure of the ethylene-bridged dimer [Cp(CO)₂RuCH₂CH₂Ru(CO)₂Cp] and comparison of its reactivity with that of [Cp(CO)₂RuCH₂CH₃] and [Cp(CO)₂Ru(CH₂)₅-Ru(CO)₂Cp]: models for Fischer–Tropsch surface intermediates (M.A. Gafoor, A.T. Hutton and J.R. Moss), 233
- Cyclopentadienyls**
 Synthesis and structure of the iron-substituted silylacetylene [(η^5 -C₅H₅)Fe(CO)₂SiMe₂C]₂ and its cobalt hexacarbonyl derivative [(η^5 -C₅H₅)Fe(CO)₂SiMe₂C] · Co₂(CO)₈ (E. Ramirez-Oliva, J. Cervantes, F. Cervantes-Lee, R.N. Kapoor and K.H. Pannell), 57
- Cycloreversion**
 Dibenzo[*b,e*]-7,7,8,8-tetraneopentyl- and dibenzo[*b,e*]-7,7,8,8-tetra-isopropyl-7,8-disilabicyclo[2.2.2]octa-2,5-dienes: interaction with tetracyanoethylene and transition metal chlorides (S. Kyushin, M. Ikarugi, K. Takatsuna, M. Goto and H. Matsumoto), 121
- Dioxygen complexes**
 Seven-coordinate dioxygen complexes from dioxygen addition to five-coordinate σ -phenyl, isocyanide-containing derivatives of ruthenium(II) and osmium(II). Crystal structures of Os(η^2 -O₂)-(η^2 -CPh=N*p*-chlorophenyl)Cl(PPh₃)₂ and Os(η^2 -SO₄)(η^2 -CPh=N*p*-chlorophenyl)Cl(PPh₃)₂ (S.M. Maddock, C.E.F. Rickard, W.R. Roper and L.J. Wright), 267
- Diphenylhexatriene**
 Syntheses and structures of bis(tricarbonylchromium)-substituted α,ω -diphenylhexatriene complexes (T.M. Gilbert, F.J. Hadley, M.D. Simmons, C.B. Bauer and R.D. Rogers), 83
- Diphosphine**
 Ligand migrations during the formation of some palladium–rhodium heterodinuclear complexes (S.-j. Lu, F.-p. Wei, X.-d. Wang, H.-q. Wang and L.-r. Huang), 7
- 1,2-Disilacyclobutanes**
 Generation and conversion of the transient 1,1-bis(trimethylsilyl)-2-(2,4,6-triisopropylphenyl)-silene (F. Luderer, H. Reinke and H. Oehme), 181
- Electrochemistry**
 Electrochemical behaviour of some polyoxo clusters (D. Osella, M. Ravera, C. Floriani and E. Solari), 45
- Enthalpy of formation**
 Thermochemistry of organosilicon compounds. VII. Permethylcyclosilazanes and 1,1,3,3-tetramethyldisilazane (M.G. Voronkov, V.A. Klyuchnikov and L.I. Marenkova), 263
- Ethylene**
 Synthesis, characterization and structure of the ethylene-bridged dimer [Cp(CO)₂RuCH₂CH₂Ru(CO)₂Cp] and comparison of its reactivity with that of [Cp(CO)₂RuCH₂CH₃] and [Cp(CO)₂Ru(CH₂)₅-Ru(CO)₂Cp]: models for Fischer–Tropsch surface intermediates (M.A. Gafoor, A.T. Hutton and J.R. Moss), 233
- Ethyltetramethylcyclopentadienyl**
 The chemistry of compounds of the type Ru(η^5 -C₅Me₄Et)(CO)₂X (X = Cl, Br or I) (K. Tabatabaieian and C. White), 135
- Extended Hückel calculations**
 How bridging ligands and neighbouring groups tune the gold–gold bond strength (L.F. Veiros and M.J. Calhorda), 71
- Ferrocene**
 Molecular structure of some [1.1]ferrocenylruthenocenophanium⁺⁺ (*n* = 1, 2) polyiodides salts (M. Watanabe, I. Motoyama and H. Sano), 243
- Fischer–Tropsch**
 Synthesis, characterization and structure of the ethylene-bridged dimer [Cp(CO)₂RuCH₂CH₂Ru(CO)₂Cp] and comparison of its reactivity with that of [Cp(CO)₂RuCH₂CH₃] and [Cp(CO)₂Ru(CH₂)₅-Ru(CO)₂Cp]: models for Fischer–Tropsch surface intermediates (M.A. Gafoor, A.T. Hutton and J.R. Moss), 233
- Fluorination**
 Rate increases in the fluorination of bulky chlorosilanes caused by ultrasound or by water (P.D. Lickiss and R. Lucas), 167
- Gallium**
 Preparation and characterization of mixed alkyl amido complexes of gallium (S.T. Barry and D.S. Richeson), 103
- Gaussian calculations**
 Unimolecular rearrangement of α -silylcarbenium ions. An ab initio study (S.G. Cho), 25
- Germanium**
 Syntheses, spectroscopic characteristics and thermolytic rearrangements of bis-[(trimethylgermyl)methyl]platinum(II) and bis-[(trimethylstannyl)methyl]platinum(II) complexes (V. Christou and G.B. Young), 157
- Gold**
 How bridging ligands and neighbouring groups tune the gold–gold bond strength (L.F. Veiros and M.J. Calhorda), 71
- Group 14**
 Dibenzo[*b,e*]-7,7,8,8-tetraneopentyl- and dibenzo[*b,e*]-7,7,8,8-tetra-isopropyl-7,8-disilabicyclo[2.2.2]octa-2,5-dienes: interaction with tetracyanoethylene and transition metal chlorides (S. Kyushin, M. Ikarugi, K. Takatsuna, M. Goto and H. Matsumoto), 121
- Halide**
 Some additional aspects of versatile starting compounds for cationic organoiron complexes: molecular structure of the aqua complex [(η^5 -C₅Me₄Et)Fe(CO)₂(OH₂)]BF₄ and solution behavior of the THF complex [(η^5 -C₅R₅)Fe(CO)₂(THF)]BF₄ (M. Akita, M. Terada, M. Tanaka and Y. Morooka), 255
- Halide abstraction**
 Halide abstraction as a route to cationic molybdenum(IV) compounds: crystal and molecular structure of [CpMoCl(MeCN)₄][SbCl₆]₂ · MeCN (G.R. Willey, T.J. Woodman and M.G.B. Drew), 213
- Heterobimetallics**
 Ligand migrations during the formation of some palladium–rhodium heterodinuclear complexes (S.-j. Lu, F.-p. Wei, X.-d. Wang, H.-q. Wang and L.-r. Huang), 7
- Heteronuclear bridged species**
 Homo- and hetero-bridged mixed-valence dinuclear complexes which contain the fragment ‘Rh(C₆F₅)₃’ (M.P. García, M.V. Jiménez, T. Luengo and L.A. Oro), 189
- Hindered (bulky) ligands**
 Preparation and lithiation of tris(*o*-tolyl(dimethylsilyl)methane (A.I. Almansour), 117

Homonuclear bridged species

Homo- and hetero-bridged mixed-valence dinuclear complexes which contain the fragment 'Rh(C₆F₅)₃' (M.P. García, M.V. Jiménez, T. Luengo and L.A. Oro), 189

Hydroxo

Oxidation of organometallic complexes by water: Synthesis of diorgano(hydroxo)platinum(IV) complexes and the structure of a diorgano(aqua)platinum(IV) complex of tris(pyridin-2-yl)methanol, [PtPh₂(py)₃COH-*N,N',N''*](OH₂)] [NO₃]₂ · H₂O (A.J. Canty, S.D. Fritsche, H. Jin, R.T. Honeyman, B.W. Skelton and A.H. White), 281

Imine

Cyclometallated compounds of palladium(II) with a 2,4-pentanedionate: the X-ray crystal structure of [Pd(4-(CHO)C₆H₃C(H)=NCy)(H₃CCOCHCOCH₃)] (J.M. Vila, M. Gayoso, M.T. Pereira, M. López Torres, J.J. Fernández, A. Fernández and B.E. Rivero), 51

Iridium

Homo- and hetero-bridged mixed-valence dinuclear complexes which contain the fragment 'Rh(C₆F₅)₃' (M.P. García, M.V. Jiménez, T. Luengo and L.A. Oro), 189

Iron

Molecular structure of some [1.1]ferrocenylruthenocenophaniumⁿ⁺ (*n* = 1, 2) polyiodides salts (M. Watanabe, I. Motoyama and H. Sano), 243

Some additional aspects of versatile starting compounds for cationic organoiron complexes: molecular structure of the aqua complex [(η⁵-C₅Me₄Et)Fe(CO)₂(OH₂)]BF₄ and solution behavior of the THF complex [(η⁵-C₅R₅)Fe(CO)₂(THF)]BF₄ (M. Akita, M. Terada, M. Tanaka and Y. Morooka), 255

Synthesis and characterisation of [(C₅Me₄R)₂NbS₂]₂M complexes (M = Fe, Co; R = Me, Et): organometallic tetrathiometalates with niobocene ligands (H. Brunner, M.M. Kubicki, G. Gehart, E. Lehri, D. Lucas, W. Meier, Y. Mugnier, B. Nuber, B. Stubenhofer and J. Wachter), 291

Synthesis and structure of the iron-substituted silylacetylene [(η⁵-C₅H₅)Fe(CO)₂SiMe₂C]₂ and its cobalt hexacarbonyl derivative [(η⁵-C₅H₅)Fe(CO)₂SiMe₂C]₂ · Co₂(CO)₆ (E. Ramirez-Oliva, J. Cervantes, F. Cervantes-Lee, R.N. Kapoor and K.H. Pannell), 57

Iron (II)

Photochemical reactions of alkynyl iron (II) complexes with carbon disulfide. Insertion of CS₂ into an iron-C(sp) bond (V. Cadierno, M.P. Gamasa, J. Gimeno and E. Lastra), 207

Isocyanide complexes

Seven-coordinate dioxygen complexes from dioxygen addition to five-coordinate *σ*-phenyl, isocyanide-containing derivatives of ruthenium(II) and osmium(II). Crystal structures of Os(η²-O₂)(η²-CPh=N*p*-chlorophenyl)Cl(PPh₃)₂ and Os(η²-SO₄)(η²-CPh=N*p*-chlorophenyl)Cl(PPh₃)₂ (S.M. Maddock, C.E.F. Rickard, W.R. Roper and L.J. Wright), 267

Isomenthoxide structure

Chiroptische Effekte von Lanthanoidorganen mit optisch aktiven Liganden. III. Erschließung wohldefinierter chiraler Organosamarium(III)-Verbindungen durch Umsetzung von Tris(cyclopentadienyl)samarium mit (1*S*,2*R*,5*R*)-Isomenthol, (R)-(+)-Isobutyl-lactat und (R)-(+)-Methyl-*p*-tolylsulfoxid (A. Steudel, J. Stehr, E. Siebel und R.D. Fischer), 197

Kinetics

Syntheses, spectroscopic characteristics and thermolytic rearrangements of bis-[(trimethylgermyl)methyl]platinum(II) and bis-[(trimethylstannyl)methyl]platinum(II) complexes (V. Christou and G.B. Young), 157

Magnesium

Selective crystallization of di-*sec*-butylmagnesium. *N,N,N',N'*-tetramethylethylenediamine from solutions containing mixtures of normal-butyl and secondary-butyl isomers (N.D.R. Barnett, W. Clegg, R.E. Mulvey, P.A. O'Neil and D. Reed), 297

Mechanism

Syntheses, spectroscopic characteristics and thermolytic rearrangements of bis-[(trimethylgermyl)methyl]platinum(II) and bis-[(trimethylstannyl)methyl]platinum(II) complexes (V. Christou and G.B. Young), 157

Mercury

Preparation, spectroscopic properties and thermal stabilities of organomercury compounds containing the bulky ligand (Me₃Si)₃C or (PhMe₂Si)₃C (S.S. Al-Juaid, C. Eaborn, P.D. Lickiss, J.D. Smith, K. Tavakkoli and A.D. Webb), 142

Metallocenes

Molecular structure of some [1.1]ferrocenylruthenocenophaniumⁿ⁺ (*n* = 1, 2) polyiodides salts (M. Watanabe, I. Motoyama and H. Sano), 243

Metal-metal bonds

How bridging ligands and neighbouring groups tune the gold-gold bond strength (L.F. Veiros and M.J. Calhorda), 71

Methyl-mercury

Symmetrization of methylmercury(II) and phenylmercury(II) salts induced by the tripodal ligand N(CH₂CH₂PPh)₃ (F. Cecconi, C.A. Ghilardi, S. Midollini, A. Orlandini and A. Vacca), 153

Molecular mechanics

Unimolecular rearrangement of *α*-silylcarbenium ions. An ab initio study (S.G. Cho), 25

Molybdenum(IV)

Halide abstraction as a route to cationic molybdenum(IV) compounds: crystal and molecular structure of [CpMoCl(MeCN)₄][SbCl₆]₂ · MeCN (G.R. Willey, T.J. Woodman and M.G.B. Drew), 213

Niobocene

Synthesis and characterisation of [(C₅Me₄R)₂NbS₂]₂M complexes (M = Fe, Co; R = Me, Et): organometallic tetrathiometalates with niobocene ligands (H. Brunner, M.M. Kubicki, G. Gehart, E. Lehri, D. Lucas, W. Meier, Y. Mugnier, B. Nuber, B. Stubenhofer and J. Wachter), 291

NMR spectra

Preparation, spectroscopic properties and thermal stabilities of organomercury compounds containing the bulky ligand (Me₃Si)₃C or (PhMe₂Si)₃C (S.S. Al-Juaid, C. Eaborn, P.D. Lickiss, J.D. Smith, K. Tavakkoli and A.D. Webb), 142

Nuclear magnetic resonance

Photochemical reactions of alkynyl iron (II) complexes with carbon disulfide. Insertion of CS₂ into an iron-C(sp) bond (V. Cadierno, M.P. Gamasa, J. Gimeno and E. Lastra), 207

Selective crystallization of di-*sec*-butylmagnesium. *N,N,N',N'*-tetramethylethylenediamine from solutions containing mixtures of normal-butyl and secondary-butyl isomers (N.D.R. Barnett, W. Clegg, R.E. Mulvey, P.A. O'Neil and D. Reed), 297

Olefin

Synthesis and structural characterization of (μ-H)₂Ru₃(CO)₉(μ₃-η²-C₈H₁₂) and (μ-H)Ru₃(CO)₉(μ₃-η³-C₁₂H₁₈) (K.O. Kallinen, M. Ahlgrén, T.T. Pakkanen and T.A. Pakkanen), 37

Organomagnesium

Selective crystallization of di-*sec*-butylmagnesium. *N,N,N',N'*-tetramethylethylenediamine from solutions containing mixtures of normal-butyl and secondary-butyl isomers (N.D.R. Barnett, W. Clegg, R.E. Mulvey, P.A. O'Neil and D. Reed), 297

Organosamarium complexes

Chiroptische Effekte von Lanthanoidorganen mit optisch aktiven Liganden. III. Erschließung wohldefinierter chiraler Organosamarium(III)-Verbindungen durch Umsetzung von Tris(cyclopentadienyl)samarium mit (1*S*,2*R*,5*R*)-Isomenthol, (R)-(+)-Isobutyl-lactat und (R)-(+)-Methyl-*p*-tolylsulfoxid (A. Steudel, J. Stehr, E. Siebel und R.D. Fischer), 197

Osmium

Seven-coordinate dioxygen complexes from dioxygen addition to five-coordinate σ -phenyl, isocyanide-containing derivatives of ruthenium(II) and osmium(II). Crystal structures of Os(η^2 -O₂)(η^2 -CPh=N*p*-chlorophenyl)Cl(PPh₃)₂ and Os(η^2 -SO₄)(η^2 -CPh=N*p*-chlorophenyl)Cl(PPh₃)₂ (S.M. Maddock, C.E.F. Rickard, W.R. Roper and L.J. Wright), 267

Syntheses, structures and reactivities of [Os₆Pd(CO)₁₈(bipy)] and [(bipy)Pd]₂Os₃(CO)₁₂: crystal and molecular structures of [(bipy)Pd]₂(μ -H)(μ -CO)[H₃Os₄(CO)₁₂] and [(C₄H₉)₄N]₂[Pd₂I₆] (S. Chan, S.-M. Lee, Z. Lin and W.-T. Wong), 219

Palladium

Cyclometallated compounds of palladium(II) with a 2,4-pentanedionate: the X-ray crystal structure of [Pd{4-(CHO)C₆H₃C-(H)=NCy}(H₃CCOCHCOCH₃)] (J.M. Vila, M. Gayoso, M.T. Pereira, M. López Torres, J.J. Fernández, A. Fernández and B.E. Rivero), 51

Homo- and hetero-bridged mixed-valence dinuclear complexes which contain the fragment 'Rh(C₆F₅)₃' (M.P. García, M.V. Jiménez, T. Luengo and L.A. Oro), 189

Ligand migrations during the formation of some palladium-rhodium heterodinuclear complexes (S.-j. Lu, F.-p. Wei, X.-d. Wang, H.-q. Wang and L.-r. Huang), 7

Syntheses, structures and reactivities of [Os₆Pd(CO)₁₈(bipy)] and [(bipy)Pd]₂Os₃(CO)₁₂: crystal and molecular structures of [(bipy)Pd]₂(μ -H)(μ -CO)[H₃Os₄(CO)₁₂] and [(C₄H₉)₄N]₂[Pd₂I₆] (S. Chan, S.-M. Lee, Z. Lin and W.-T. Wong), 219

Pentafluorophenyl

Synthesis and characterization of cationic heteronuclear complexes of platinum(II) and silver(I) bridged by alkynyl ligands (I. Ara, J.R. Berenguer, J. Forniés, E. Lalinde and M.T. Moreno), 63

Permethylcyclosilazanes

Thermochemistry of organosilicon compounds. VII. Permethylcyclosilazanes and 1,1,3,3-tetramethyldisilazane (M.G. Voronkov, V.A. Klyuchnikov and L.I. Marenkova), 263

Permethylcyclosiloxanes

Thermochemistry of organosilicon compounds. VII. Permethylcyclosilazanes and 1,1,3,3-tetramethyldisilazane (M.G. Voronkov, V.A. Klyuchnikov and L.I. Marenkova), 263

Peterson reaction

Generation and conversion of the transient 1,1-bis(trimethylsilyl)-2-(2,4,6-triisopropylphenyl)-silene (F. Luderer, H. Reinke and H. Oehme), 181

Phenyl-mercury

Symmetrization of methylmercury(II) and phenylmercury(II) salts induced by the tripodal ligand N(CH₂CH₂PPh₂)₃ (F. Cecconi, C.A. Ghilardi, S. Midollini, A. Orlandini and A. Vacca), 153

Phosphane

Crystallographic evidence of hexacoordination at phosphorus via intramolecular coordination of donor groups on phosphane and phosphane sulphide (M. Chauhan, C. Chuit, R.J.P. Corriu, C. Reyé, J.-P. Declercq and A. Dubourg), 173

Phosphane sulfide

Crystallographic evidence of hexacoordination at phosphorus via intramolecular coordination of donor groups on phosphane and phosphane sulphide (M. Chauhan, C. Chuit, R.J.P. Corriu, C. Reyé, J.-P. Declercq and A. Dubourg), 173

Phosphines

The chemistry of compounds of the type Ru(η^5 -C₅Me₄Et)(CO)₂X (X = Cl, Br or I) (K. Tabatabaieian and C. White), 135

Phosphoryl ligand

Synthesis and structure of 1:1 complex of dimethyltin dichloride with *meso*-1,2-bis(α -diethoxyphosphorylbenzylamino)ethane (J. Lorberth, S. Wocadlo, W. Massa, E.V. Grigoriev, N.S. Yashina, V.S. Petrosyan and P. Finocchiaro), 287

Photochemistry

Photochemical reactions of alkynyl iron (II) complexes with carbon disulfide. Insertion of CS₂ into an iron-C(sp) bond (V. Cadierno, M.P. Gamasa, J. Gimeno and E. Lastra), 207

Platinum

Oxidation of organometallic complexes by water: Synthesis of diorgano(hydroxo)platinum(IV) complexes and the structure of a diorgano(aqua)platinum(IV) complex of tris(pyridin-2-yl)methanol, [PtPh₂{(py)₃COH-*N,N',N''*}(OH₂)][NO₃]₂ · H₂O (A.J. Canty, S.D. Fritsche, H. Jin, R.T. Honeyman, B.W. Skelton and A.H. White), 281

Syntheses, spectroscopic characteristics and thermolytic rearrangements of bis-[(trimethylgermyl)methyl]platinum(II) and bis-[(trimethylstannyl)methyl]platinum(II) complexes (V. Christou and G.B. Young), 157

Synthesis and characterization of cationic heteronuclear complexes of platinum(II) and silver(I) bridged by alkynyl ligands (I. Ara, J.R. Berenguer, J. Forniés, E. Lalinde and M.T. Moreno), 63

Polyene

Syntheses and structures of bis(tricarbonylchromium)-substituted α,ω -diphenylhexatriene complexes (T.M. Gilbert, F.J. Hadley, M.D. Simmons, C.B. Bauer and R.D. Rogers), 83

Polyoxo clusters

Electrochemical behaviour of some polyoxo clusters (D. Osella, M. Ravera, C. Floriani and E. Solari), 45

Polysilanes

Generation and conversion of the transient 1,1-bis(trimethylsilyl)-2-(2,4,6-triisopropylphenyl)-silene (F. Luderer, H. Reinke and H. Oehme), 181

Reaction mechanisms

Electrochemical behaviour of some polyoxo clusters (D. Osella, M. Ravera, C. Floriani and E. Solari), 45

Rearrangement

Unimolecular rearrangement of α -silylcarbenium ions. An ab initio study (S.G. Cho), 25

Rhodium

Homo- and hetero-bridged mixed-valence dinuclear complexes which contain the fragment 'Rh(C₆F₅)₃' (M.P. García, M.V. Jiménez, T. Luengo and L.A. Oro), 189

Ligand migrations during the formation of some palladium-rhodium heterodinuclear complexes (S.-j. Lu, F.-p. Wei, X.-d. Wang, H.-q. Wang and L.-r. Huang), 7

Ruthenium

Molecular structure of some [1.1]ferrocenylruthenocenophaniumⁿ⁺ (*n* = 1, 2) polyiodides salts (M. Watanabe, I. Motoyama and H. Sano), 243

Organoruthenium chalcogen complexes: synthesis of *tert*-butylcyclopentadienyl dicarbonyl ruthenium thio- and seleno-carboxylate complexes and crystal structure determination of (t-Bu-C₅H₄)Ru(CO)₂SCO(3-NO₂-C₆H₄) and (t-Bu-C₅H₄)Ru(CO)₂-SeCO(3,5-(NO₂)₂-C₆H₃) (I. Jibri, F.T. Esmadi, H. Al-Masri, L. Zsolnai and G. Huttner), 109

Reactions of tetrakis(trifluoromethyl)diphosphine and bis(trifluoromethyl)phosphine with ruthenium carbonyl clusters; X-ray structure of tetraruthenium carbonyl cluster derivatives (H.G. Ang, S.G. Ang, S.W. Du, B.H. Sow and A.L. Rheingold), 13

- Seven-coordinate dioxygen complexes from dioxygen addition to five-coordinate σ -phenyl, isocyanide-containing derivatives of ruthenium(II) and osmium(II). Crystal structures of Os(η^2 -O₂)(η^2 -CPh=N*p*-chlorophenyl)Cl(PPh₃)₂ and Os(η^2 -SO₄)(η^2 -CPh=N*p*-chlorophenyl)Cl(PPh₃)₂ (S.M. Maddock, C.E.F. Rickard, W.R. Roper and L.J. Wright), 267
- Synthesis and structural characterization of (μ -H)₂Ru₃(CO)₉(μ_3 - η^2 -C₈H₁₂) and (μ -H)Ru₃(CO)₉(μ_3 - η^3 -C₁₂H₁₈) (K.O. Kallinen, M. Ahlgren, T.T. Pakkanen and T.A. Pakkanen), 37
- Synthesis, characterization and structure of the ethylene-bridged dimer [Cp(CO)₂RuCH₂CH₂Ru(CO)₂Cp] and comparison of its reactivity with that of [Cp(CO)₂RuCH₂CH₃] and [Cp(CO)₂Ru(CH₂)₅Ru(CO)₂Cp]: models for Fischer-Tropsch surface intermediates (M.A. Gafoor, A.T. Hutton and J.R. Moss), 233
- The chemistry of compounds of the type Ru(η^5 -C₅Me₄Et)(CO)₂X (X = Cl, Br or I) (K. Tabatabaieian and C. White), 135
- Schiff base**
- Cyclometallated compounds of palladium(II) with a 2,4-pentanedionate: the X-ray crystal structure of [Pd(4-(CHO)C₆H₃C(H)=NCy)(H₃CCOCHCOCH₃)] (J.M. Vila, M. Gayoso, M.T. Pereira, M. López Torres, J.J. Fernández, A. Fernández and B.E. Rivero), 51
- Silane**
- Dibenzo[*b,e*]-7,7,8,8-tetraneopentyl- and dibenzo[*b,e*]-7,7,8,8-tetra-isopropyl-7,8-disilabicyclo[2.2.2]octa-2,5-dienes: interaction with tetracyanoethylene and transition metal chlorides (S. Kyushin, M. Ikarugi, K. Takatsuna, M. Goto and H. Matsumoto), 121
- Silene dimerization**
- Generation and conversion of the transient 1,1-bis(trimethylsilyl)-2-(2,4,6-triisopropylphenyl)-silene (F. Luderer, H. Reinke and H. Oehme), 181
- Silenes**
- Generation and conversion of the transient 1,1-bis(trimethylsilyl)-2-(2,4,6-triisopropylphenyl)-silene (F. Luderer, H. Reinke and H. Oehme), 181
- Silicon**
- Novel method for preparing bis(trimethylsilyl)amines via treatment with trimethylsilylamines and methyl iodide (Y. Hamada, Y. Yamamoto and H. Shimizu), 1
- Preparation and lithiation of tris(*o*-tolyl dimethylsilyl)methane (A.I. Almansour), 117
- Preparation, spectroscopic properties and thermal stabilities of organomercury compounds containing the bulky ligand (Me₃Si)₃C or (PhMe₂Si)₃C (S.S. Al-Juaid, C. Eaborn, P.D. Lickiss, J.D. Smith, K. Tavakkoli and A.D. Webb), 142
- Rate increases in the fluorination of bulky chlorosilanes caused by ultrasound or by water (P.D. Lickiss and R. Lucas), 167
- Thermochemistry of organosilicon compounds. VII. Permethylcyclosilazanes and 1,1,3,3-tetramethyldisilazane (M.G. Voronkov, V.A. Klyuchnikov and L.I. Marenkova), 263
- Unimolecular rearrangement of α -silylcarbenium ions. An ab initio study (S.G. Cho), 25
- Silylacetylene**
- Synthesis and structure of the iron-substituted silylacetylene [(η^5 -C₅H₅)Fe(CO)₂SiMe₂Cl₂] and its cobalt hexacarbonyl derivative [(η^5 -C₅H₅)Fe(CO)₂SiMe₂Cl₂·Co₂(CO)₈] (E. Ramirez-Oliva, J. Cervantes, F. Cervantes-Lee, R.N. Kapoor and K.H. Pannell), 57
- σ - π conjugation**
- Dibenzo[*b,e*]-7,7,8,8-tetraneopentyl- and dibenzo[*b,e*]-7,7,8,8-tetra-isopropyl-7,8-disilabicyclo[2.2.2]octa-2,5-dienes: interaction with tetracyanoethylene and transition metal chlorides (S. Kyushin, M. Ikarugi, K. Takatsuna, M. Goto and H. Matsumoto), 121
- Symmetrization reaction**
- Symmetrization of methylmercury(II) and phenylmercury(II) salts induced by the tripodal ligand N(CH₂CH₂PPh₂)₃ (F. Ceconi, C.A. Ghilardi, S. Midollini, A. Orlandini and A. Vacca), 153
- Syntheses**
- Homo- and hetero-bridged mixed-valence dinuclear complexes which contain the fragment 'Rh(C₆F₅)₃' (M.P. García, M.V. Jiménez, T. Luengo and L.A. Oro), 189
- Synthesis**
- Photochemical reactions of alkynyl iron (II) complexes with carbon disulfide. Insertion of CS₂ into an iron-C(sp) bond (V. Cadierno, M.P. Gamasa, J. Gimeno and E. Lastra), 207
- The chemistry of compounds of the type Ru(η^5 -C₅Me₄Et)(CO)₂X (X = Cl, Br or I) (K. Tabatabaieian and C. White), 135
- Tetrakis(trifluoromethyl)diphosphine**
- Reactions of tetrakis(trifluoromethyl)diphosphine and bis(trifluoromethyl)phosphine with ruthenium carbonyl clusters; X-ray structure of tetraruthenium carbonyl cluster derivatives (H.G. Ang, S.G. Ang, S.W. Du, B.H. Sow and A.L. Rheingold), 13
- Tetra-ruthenium cluster**
- Reactions of tetrakis(trifluoromethyl)diphosphine and bis(trifluoromethyl)phosphine with ruthenium carbonyl clusters; X-ray structure of tetraruthenium carbonyl cluster derivatives (H.G. Ang, S.G. Ang, S.W. Du, B.H. Sow and A.L. Rheingold), 13
- Tetrathiometalates**
- Synthesis and characterisation of [(C₅Me₄R)₂NbS₂]₂M complexes (M = Fe, Co; R = Me, Et): organometallic tetrathiometalates with niobocene ligands (H. Brunner, M.M. Kubicki, G. Gehart, E. Lehl, D. Lucas, W. Meier, Y. Mugnier, B. Nuber, B. Stubenhofer and J. Wachter), 291
- Thermal decomposition**
- Preparation, crystal structure and thermal decomposition study of some trimethylsilyl esters of dicarbamic acids (R. Szalay, Zs. Böcskei, D. Knausz, Cs. Lovász, K. Újszászy, L. Szakács and P. Sohár), 93
- Thermal stability**
- Preparation, spectroscopic properties and thermal stabilities of organomercury compounds containing the bulky ligand (Me₃Si)₃C or (PhMe₂Si)₃C (S.S. Al-Juaid, C. Eaborn, P.D. Lickiss, J.D. Smith, K. Tavakkoli and A.D. Webb), 142
- Thermochemistry**
- Thermochemistry of organosilicon compounds. VII. Permethylcyclosilazanes and 1,1,3,3-tetramethyldisilazane (M.G. Voronkov, V.A. Klyuchnikov and L.I. Marenkova), 263
- Thermolysis**
- Syntheses, spectroscopic characteristics and thermolytic rearrangements of bis-[(trimethylgermyl)methyl]platinum(II) and bis-[(trimethylstannyl)methyl]platinum(II) complexes (V. Christou and G.B. Young), 157
- Tin**
- Syntheses, spectroscopic characteristics and thermolytic rearrangements of bis-[(trimethylgermyl)methyl]platinum(II) and bis-[(trimethylstannyl)methyl]platinum(II) complexes (V. Christou and G.B. Young), 157
- Synthesis and structure of 1:1 complex of dimethyltin dichloride with *meso*-1,2-bis(α -diethoxyphosphorylbenzylamino)ethane (J. Lorberth, S. Wocadlo, W. Massa, E.V. Grigoriev, N.S. Yashina, V.S. Petrosyan and P. Finocchiaro), 287
- Titanium**
- Electrochemical behaviour of some polyoxo clusters (D. Osella, M. Ravera, C. Floriani and E. Solari), 45

Trimethylsilyl

Novel method for preparing bis(trimethylsilyl)amines via treatment with trimethylsilylamines and methyl iodide (Y. Hamada, Y. Yamamoto and H. Shimizu), 1

Preparation, crystal structure and thermal decomposition study of some trimethylsilyl esters of dicarbamic acids (R. Szalay, Zs. Böcskei, D. Knausz, Cs. Lovász, K. Újszászy, L. Szakács and P. Sohár), 93

N-(Trimethylsilyl)diethylamine

Novel method for preparing bis(trimethylsilyl)amines via treatment with trimethylsilylamines and methyl iodide (Y. Hamada, Y. Yamamoto and H. Shimizu), 1

Tripodal phosphine

Symmetrization of methylmercury(II) and phenylmercury(II) salts induced by the tripodal ligand $N(CH_2CH_2PPh_2)_3$ (F. Cecconi, C.A. Ghilardi, S. Midollini, A. Orlandini and A. Vacca), 153

Ultrasonic activation

Rate increases in the fluorination of bulky chlorosilanes caused by ultrasound or by water (P.D. Lickiss and R. Lucas), 167

Water

Some additional aspects of versatile starting compounds for cationic organoiron complexes: molecular structure of the aqua complex $[(\eta^5-C_5Me_4Et)Fe(CO)_2(OH_2)]BF_4$ and solution behavior of the THF complex $[(\eta^5-C_5R_5)Fe(CO)_2(THF)]BF_4$ (M. Akita, M. Terada, M. Tanaka and Y. Morooka), 255

Wittig reaction

Syntheses and structures of bis(tricarbonylchromium)-substituted α,ω -diphenylhexatriene complexes (T.M. Gilbert, F.J. Hadley, M.D. Simmons, C.B. Bauer and R.D. Rogers), 83

X-ray diffraction

Cyclometallated compounds of palladium(II) with a 2,4-pentanedionate: the X-ray crystal structure of $[Pd\{4-(CHO)C_6H_3C(H)=NCy\}(H_3CCOCHCOCH_3)]$ (J.M. Vila, M. Gayoso, M.T. Pereira, M. López Torres, J.J. Fernández, A. Fernández and B.E. Rivero), 51

Synthesis and characterization of cationic heteronuclear complexes of platinum(II) and silver(I) bridged by alkynyl ligands (I. Ara, J.R. Berenguer, J. Forniés, E. Lalinde and M.T. Moreno), 63

X-Ray diffraction

Preparation, crystal structure and thermal decomposition study of some trimethylsilyl esters of dicarbamic acids (R. Szalay, Zs. Böcskei, D. Knausz, Cs. Lovász, K. Újszászy, L. Szakács and P. Sohár), 93

X-ray diffraction structure

Synthesis and structure of the iron-substituted silylacetylene $[(\eta^5-C_5H_4)Fe(CO)_2SiMe_2C]_2$ and its cobalt hexacarbonyl derivative $[(\eta^5-C_5H_5)Fe(CO)_2SiMe_2C]_2 \cdot Co_2(CO)_6$ (E. Ramirez-Oliva, J. Cervantes, F. Cervantes-Lee, R.N. Kapoor and K.H. Pannell), 57

X-ray structure analysis

Crystallographic evidence of hexacoordination at phosphorus via intramolecular coordination of donor groups on phosphane and phosphane sulphide (M. Chauhan, C. Chuit, R.J.P. Corriu, C. Reyé, J.-P. Declercq and A. Dubourg), 173