

SUBJECT INDEX

Aluminium

Organo-lithium, -magnesium and -aluminium compounds in selective C or N alkylation of C=N bonds (L. Stamp, H. tom Dieck), 297

Trifluoromethyl-Group III compounds, metal vapour synthesis of (T.R. Bierschenk, T.J. Juhlke, W.I. Bailey, Jr., R.J. Lagow), 1

Antimony

ArXH and ArXM (X = O, S, NR; M = Hg, Sn, Pb, Sb) type compounds, polarity of XH and XM bonds and their capacity for coordination and dissociation in (L.M. Epstein, Ye.S. Shubina, L.D. Ashkinadze, D.N. Kravtsov), 153

Distiba-selenanes, -telluranes and a tellurostibane, synthesis of (H.J. Breunig, H. Jawad), 257

Boron

Diarylboron chelates of *N*-(2-hydroxy-alkyl)-*N,N*-dialkylamine *N*-oxides, synthesis and thermally-induced rearrangements of (W. Kliegel, E. Ahlenstiel), 173

Tetraethylammonium hydrotris(3-methylpyrazolyl)boratotricarbonylmolybdenum(0), [NEt₄][Mo(CO)₃·HB(C₄H₈N₂)₃], crystal and molecular structure of (T.J. Desmond, F.J. Lalor, G. Ferguson, M. Parvez), 91

Chromium

Fluorenyltricarboxylchromium anions, intramolecularity of $\eta^6 \rightleftharpoons \eta^5$ rearrangements by crossover experiments in (N.A. Ustynyuk, L.N. Novikova, Yu.F. Oprunenko, S.G. Malyugina, Yu.A. Ustynyuk), 75

Hexacarbonyl-chromium, -molybdenum and -tungsten, photochemical substitution with phosphinothioformamide ligands on (U. Kunze, H. Jawad), C31

Pentacarbonyl-chromium, -molybdenum and -tungsten complexes with amine

and benzochinonediimine ligands, synthesis and behaviour on oxidation of (D. Sellmann, J. Müller), 379

Pentacarbonyl[methoxy(1-methoxy-2-aryl)carbene]chromium, preparation and rearrangement of (K.H. Dötz, W. Sturm, M. Popall, J. Riede), 267

Tris[bis-1,2-(dimethylphosphino)ethane] zerovalent derivatives of chromium, molybdenum, tungsten, vanadium, niobium and tantalum, synthesis, crystal structures and reactions of (F.G.N. Cloke, P.J. Fyne, V.C. Gibson, M.L.H. Green, M.J. Ledoux, R.N. Perutz, A. Dix, A. Gourdon, C.K. Prout), 61

Cobalt

1,1'-Bis(*N,N*-dimethylamino)-ferrocene, -cobalticene hexafluorophosphate, and -titanocene dichloride, preparation and crystal structure of the titanocene dichloride (K.-P. Stahl, G. Boche, W. Massa), 113

Pentamethylcyclopentadienylcobalt, mono- μ -hydrido complexes of (J. Macazaga, S. Delgado, R.M. Medina, J.R. Masaguer), 423

Copper

Organolithium, -magnesium and -aluminium compounds in selective C or N alkylation of C=N bonds (L. Stamp, H. tom Dieck), 297
(Triphenyl)germyl and (triphenyl)stannyl substituted allenes, convenient synthesis of (K. Ruitenbergh, H. Westmijze, H. Kleijn, P. Vermeer), 227

Gallium

Phenyl(diorganylthio)- and triorganylthio-gallanes, preparation from triphenylgallane and thiolene of (G.G. Hoffmann), 189

Trifluoromethyl-Group III compounds metal vapour synthesis of (T.R. Bierschenk, T.J. Juhlke, W.I. Bailey, Jr., R.J. Lagow), 1

Germanium

2,7-Dimethyl-5-germaspiro[4.4]nona-2,7-diene, synthesis and characterization by IR, NMR and mass spectroscopy of (P. Mazerolles, F. Gregoire, G. Manuel), C4

Germacyclobutanes, synthesis of (J.W.F.L. Seetz, B.J.J. van de Heistee, G. Schat, O.S. Akkerman, F. Bickelhaupt), 319

Polygermapolythianes, thermolysis and photolysis of; formation of germynes and germathiones (J. Barrau, M. El Amine, G. Rima, J. Satgé), 323

2-Triethylsilyl- and 2-triethylgermyl-1,3-di-*t*-butyl-1,3,2-diazaphosphoranes, synthesis, structure and chemical properties of (E.E. Nifantiev, N.S. Vyazankin, S.F. Sorokina, L.A. Vorobieva, O.A. Vyazankina, D.A. Bravo-Zhivotovsky, A.R. Bekker), 211
(Triphenyl)germyl and (triphenyl)stannyl substituted allenes, convenient synthesis of (K. Ruitenber, H. Westmijze, H. Kleijn, P. Vermeer), 227

Gold

Distorted tetrahedral cluster in $[(\text{Ph}_3\text{P})_4\text{Au}_4\text{N}]^+\text{BF}_4^-$, X-ray crystal structure of (Yu.L. Slovokhotov, Yu.T. Struchkov), 143

Hafnium

Cyclopentadienyl-Group IIIA and -Group IVA compounds, steric factor dependence of structures of (E.B. Lobkovsky), 53

Indium

Trifluoromethyl-Group III compounds, metal vapour synthesis of (T.R. Bier-schen, T.J. Juhlke, W.I. Bailey, Jr., R.J. Lagow), 1

Iridium

Organoiridium(I) pentacoordinate chelate-phosphane-stabilized complexes, $\text{Ir}(\text{R})(\text{CO})(\text{chel-P}_3)$, preparation of (E. Arpac, L. Dahlenburg), 127

Iron

1,1'-Bis(*N,N*-dimethylamino)-ferrocene, -cobalticene hexafluorophosphate, and -titanocene dichloride, preparation and crystal structure of the titanocene dichloride (K.-P. Stahl, G. Boche, W. Massa), 113

Bis(dimethylaminomethyl(1-mercurio)-ferrocenophane) triphenylcyano-boronate, structures of the salt and its cation (L.G. Kuz'mina, Yu.T. Struchkov, D.A. Lemenovsky, I.F. Urazovsky), 147

1,4-Diaza-1,3-diene-hexacarbonyliron and -heptacarbonyldiiron, formation and ^{13}C O labeling experiments of (H.-W. Frühauf, J. Breuer), C13

Lead

ArXH and ArXM ($\text{X} = \text{O}, \text{S}, \text{NR}$; $\text{M} = \text{Hg}, \text{Sn}, \text{Pb}, \text{Sb}$) type compounds, polarity of XH and XM bonds and their capacity for coordination and dissociation in (L.M. Epstein, Ye.S. Shubina, L.D. Ashkinadze, D.N. Kravtsov), 153
Tri- and di-phenylhaloplumbanes, synthesis and vibrational spectra of (I. Wharf, R. Cuenca, E. Besso, M. Onyszczuk), 245

Lithium

1,1'-Bis(*N,N*-dimethylamino)-ferrocene, -cobalticene hexafluorophosphate, and -titanocene dichloride, preparation and crystal structure of the titanocene dichloride (K.-P. Stahl, G. Boche, W. Massa), 113

Organo-lithium, -magnesium and -aluminum compounds in selective C or N alkylation of $\text{C}=\text{N}$ bonds (L. Stamp, H. tom Dieck), 297

(Triphenyl)germyl and (triphenyl)stannyl substituted allenes, convenient synthesis of (K. Ruitenber, H. Westmijze, H. Kleijn, P. Vermeer), 227

Magnesium

Organo-lithium, -magnesium and -aluminum compounds in selective C or N alkylation of $\text{C}=\text{N}$ bonds (L. Stamp, H. tom Dieck), 297

Mercury

- ArXH and ArXM (X = O, S, NR; M = Hg, Sn, Pb, Sb) type compounds, polarity of XH and XM bonds and their capacity for coordination and dissociation in (L.M. Epstein, Ye.S. Shubina, L.D. Ashkinadze, D.N. Kravtsov), 153
- Bis(dimethylaminomethyl-(1-mercurio)-ferrocenophane) triphenylcyanoboronate, the salt and its cation (L.G. Kuz'mina, Yu.T. Struchkov, D.A. Lemenovsky, I.F. Urazovsky), 147
- 2-Methoxy-1-nitro-3,5-bis(trifluoroacetatomercurio)benzene, mercury—mercury spin—spin coupling in (G.B. Deacon, G.N. Stretton, M.J. O'Connor), C1

Metalloenes

- Bis(dimethylaminomethyl-(1-mercurio)-ferrocenophane) triphenylcyanoboronate, structures of the salt and cation (L.G. Kuz'mina, Yu.T. Struchkov, D.A. Lemenovsky, I.F. Urazovsky), 147
- 1,1'-Bis(*N,N*-dimethylamino)-ferrocene, -cobalticinium hexafluorophosphate, and -titanocene dichloride, preparation and crystal structure of the titanocene dichloride (K.-P. Stahl, G. Boche, W. Massa), 113
- Carbonylvinylnickel compounds, coupling and ethylene insertion into (H. Lehmkuhl, C. Naydowski), C18

Molybdenum

- Aqueous allylmolybdenum(II) chemistry (B.J. Brisdon, M. Cartwright, A.G. Hudson), 85
- 2,2'-Bipyridinetetracarbonylmolybdenum disubstituted complexes, electronic spectra and electrochemistry of; solvent and substituent effects (J.A. Connor, C. Overton, N. El Murr), 277
- [C₅H₅(CO)₂Mo]₂(μ , η^2 -C \equiv NC₂H₅), crystal and molecular structure in triclinic and monoclinic form of (I. Bernal, H. Brunner, J. Wachter), 395
- (η -Cyclopentadienyl)tricarbonyl(σ -phenylethynyl)molybdenum, thermal decomposition of; molecular structure of [(η -C₅H₅)(CO)₂Mo]₂(μ -1,2- η -C₆H₅-C \equiv C-C \equiv CC₆H₅) (N.A. Ustynyuk, V.N. Vinogradova, V.N. Korneva,

D.N. Kravtsov, V.G. Andrianov, Yu.T. Struchkov), 285

- Hexacarbonyl-chromium, -molybdenum and -tungsten, photochemical substitution with phosphinothioformamide ligands on (U. Kunze, H. Jawad), C31
- Pentacarbonyl-chromium, -molybdenum and -tungsten complexes with amine and benzochinonediimine ligands, synthesis and behaviour on oxidation of (D. Sellman, J. Müller), 379
- Tetraethylammonium hydrotris(3-methylpyrazolyl)boratotricarbonylmolybdenum(0), [NEt₄][Mo(CO)₃HB(C₄H₅N₂)₃], crystal and molecular structure of (T.J. Desmond, F.J. Lalor, G. Ferguson, M. Parvez), 91
- Trimethylphosphine complexes of molybdenum and tungsten; synthesis and chemical properties of MoCl₄(PMe₃)₃ and crystal and molecular structures of WCl₄(PMe₃)₃ and MoO(acac)₂PMe₃ (R.D. Rogers, E. Carmona, A. Galindo, J.L. Atwood, L.G. Canada), 403
- Tris[bis-1,2-(dimethylphosphino)ethane zerovalent derivatives of chromium, molybdenum, tungsten, vanadium, niobium and tantalum, synthesis, crystal structures and reactions of (F.G.N. Cloke, P.J. Fyne, V.C. Gibson, M.L.H. Green, M.J. Ledoux, R.N. Perutz, A. Dix, A. Gourdon, C.K. Prout), 61

Neodymium

- Cyclopentadienyl-Group IIIA and -Group IVA compounds, steric factor dependence of structures of (E.B. Lobkovsky), 53

Nickel

- Carbonylvinylnickel compounds, coupling and ethylene insertion into (H. Lehmkuhl, C. Naydowski), C18
- Nickel(II) salts induced carbamoylation of alkynes (F.J. Fañanás, H. Hoberg), 135

Niobium

- Tris[bis-1,2-(dimethylphosphino)ethane] zerovalent derivatives of chromium, molybdenum, tungsten, vanadium, niobium and tantalum, synthesis, crystal structures and reactions of

(F.G.N. Cloke, P.J. Fyne, V.C. Gibson, M.L.H. Green, M.J. Ledoux, R.N. Perutz, A. Dix, A. Gourdon, C.K. Prout), 61

Palladium

Nitrosobenzene complexes of transition metals, catalytic reduction of nitrosobenzene by CO (P. Giannoccaro, F. Allegretta, G. Vasapollo, C.F. Nobile), 417

Phosphorus

Bis(triphenylphosphine)heptahydridorhenium, reactions with propene of (D. Baudry, J.-M. Cormier, M. Ephritikhine, H. Felkin), 99

Cyclopentadienylcarbonylruthenium complexes with Group V donor ligands, catalyzed synthesis of (N.J. Coville, E.A. Darling), 105

Distorted tetrahedral cluster in $[(\text{Ph}_3\text{P})_4\text{Au}_4\text{N}]^+ \text{BF}_4^-$, X-ray crystal structure of (Yu.L. Slovokhotov, Yu.T. Struchkov), 143

Hexacarbonyl-chromium, -molybdenum and -tungsten, photochemical substitution with phosphinothioformamide ligands on (U. Kunze, H. Jawad), C31

Organoiridium(I) pentacoordinate chelate-phosphane-stabilized complexes, Ir(R) (CO) (chel-P₃), preparation of (E. Arpac, L. Dahlenburg), 127

Phosphine basicity effect on stereoselectivity of transfer hydrogenation of alkylcyclohexanones in the presence of rhodium complexes (K. Felföldi, I. Kapocsi, M. Bartók), 443

trans-[ReCl(N₂)(Ph₂PCH₂CH₂PPh₂)₂], reactions with terminal acetylenes of (A.J.L. Pombeiro, J.C. Jeffery, C.J. Pickett, R.L. Richards), C7

Silver-tin complex salt, [Ag(PPh₃)₄][SnPh₂(NO₃)₂(Cl,NO₃)], synthesis and crystal and molecular structure of (C. Pelizzi, G. Pelizzi, P. Tarasconi), 29

Triarylphosphaethene, intermediates in reactions with sulphur of (T.A. van der Knaap, F. Bickelhaupt), 351

2-Triethylsilyl and 2-triethylgermyl-1,3-di-*t*-butyl-1,3,2-diazaphosphoranes, synthesis, structure and chemical properties of (E.E. Nifantiev, N.S. Vyazankin, S.F. Sorokina, L.A.

Vorobieva, O.V. Vyazankina, D.A. Bravo-Zhivotovsky, A.R. Bekker), 211

Trimethylphosphine complexes of molybdenum and tungsten; synthesis and chemical properties of MoCl₄(PMe₃)₃ and crystal and molecular structures of WCl₄(PMe₃)₃ and MoO(acac)₂PMe₃ (R.D. Rogers, E. Carmona, A. Galindo, J.L. Atwood, L.G. Canada), 403

Tris[bis-1,2-(dimethylphosphino)ethane] zerovalent derivatives of chromium, molybdenum, tungsten, vanadium, niobium and tantalum, synthesis, crystal structures and reactions of (F.G.N. Cloke, P.J. Fyne, V.C. Gibson, M.L.H. Green, M.J. Ledoux, R.N. Perutz, A. Dix, A. Gourdon, C.K. Prout), 61

Rhenium

Bis(triphenylphosphine)heptahydridorhenium, reactions with propene of (D. Baudry, J.-M. Cormier, M. Ephritikhine, H. Felkin), 99

trans-[ReCl(N₂)(Ph₂PCH₂CH₂PPh₂)₂], reactions with terminal acetylenes of (A.J.L. Pombeiro, J.C. Jeffery, C.J. Pickett, R.L. Richards), C7

Rhodium

Nitrosobenzene complexes of transition metals, catalytic reduction of nitrosobenzene by CO (P. Giannoccaro, F. Allegretta, G. Vasapollo, C.F. Nobile), 417

Phosphine basicity effect on stereoselectivity of transfer hydrogenation of alkylcyclohexanones in the presence of rhodium complexes (K. Felföldi, I. Kapocsi, M. Bartók), 443

Rhodium-assisted carbonylation of tetrahydrofuran; formation of C₅-lactones (G. Jenner, H. Kheradmand, A. Kienemann), 427

Rhodium(I) complexes as catalysts in reduction of alkyl-substituted cyclohexanones via hydrogen-transfer reactions (K. Felföldi, I. Kapocsi, M. Bartók), 439

Ruthenium

Cyclopentadienylcarbonylruthenium complexes with Group V donor ligands, catalysed synthesis of (N.J. Coville, E.A. Darling), 105

Nitrosobenzene complexes of transition metals, catalytic reduction of nitrosobenzene by CO (P. Giannoccaro, F. Allegretta, G. Vasapollo, C.F. Nobile), 417

Samarium

Cyclopentadienyl-Group IIIA and -Group IVA compounds, steric factor dependence of structures of (E.B. Lobkovsky), 53

Scandium

Cyclopentadienyl-Group IIIA and -Group IVA compounds, steric factor dependence of structures of (E.B. Lobkovsky), 53

Selenium

Benzo[*b*]selenophene, solvent effects on the structure oriented in liquid crystals of (N. Suryaprakash, S. Raghobhama, A.C. Kunwar, C.L. Khetrpal, M. Baiwir, G. Llabres), 359

Distiba-selenanes, -telluranes and a tellurostibane, syntheses of (H.J. Breunig, H. Jawad), 257

Silicon

Hexacarbonyl-chromium, -molybdenum and -tungsten, photochemical substitution with phosphinothioformamide ligands on (U. Kunze, H. Jawad), C31

1,1,1,5,5,5-Hexamethyltrisiloxane, preparation and reactions of (D. Seyferth, C.C. Prud'homme, W.-L. Wang), 203

Methylphenylsilanes with F, Cl, NR₂ and OR groups, effect of electronegativity on substituent shifts in ²⁹Si NMR of (R.H. Cragg, R.D. Lane), 199

Monosilacyclobutanes, mass spectroscopic investigations of (N. Auner, M. Binnewies, J. Grobe), 311

Organoiridium(I) pentacoordinate chelate-phosphane-stabilised complexes, Ir(R)(CO)(chel-P₃), preparation of (E. Arpac, L. Dahlenburg), 127

Pentacoordinate silicon compounds, pseudorotation at silicon (R.J.P. Corriu, A. Kpton, M. Poirier,

G. Royo, J.Y. Corey), C25

Tellurium(IV) chlorides, reactions with organosilicon hydrides of (R.K. Chadha, J.E. Drake, M.K.H. Neo), 47

2-Triethylsilyl- and 2-triethylgermyl-1,3-di-*t*-butyl-1,3,2-diazaphosphorinanes, synthesis, structure and chemical properties of (E.E. Nifantiev, N.S. Vyazankin, S.F. Sorokina, L.A. Vorobieva, O.A. Vyazankina, D.A. Bravo-Zhivotovsky, A.R. Bekker), 211

Triisopropylsilyl and tri-*t*-butylsilyl radicals, ESR study of (R.A. Jackson, H. Weston), 13

Silver

Silver-tin complex salt, [Ag(PPh₃)₄]-[SnPh₂(NO₃)₂(Cl,NO₃)], synthesis and crystal and molecular structure of (C. Pelizzi, G. Pelizzi, P. Tarasconi), 29

Sulphur

Hexacarbonyl-chromium, -molybdenum and -tungsten, photochemical substitution with phosphinothioformamide ligands on (U. Kunze, H. Jawad), C31

Phenyl(diorganylthio)- and triorganylthio-gallanes, preparation from triphenylgallane and thiolene of (G.G. Hoffmann), 189

Polygermapolythianes, thermolysis and photolysis of; formation of germylenes and germathiones (J. Barrau, M. El Amini, G. Rima, J. Satgé), 323

Triarylphosphaethane, intermediates in reactions with sulphur of (T.A. van der Knaap, F. Bickelhaupt), 351

Tantalum

Tris[bis-1,2-(dimethylphosphino)ethane] zerovalent derivatives of chromium, molybdenum, tungsten, vanadium, niobium and tantalum synthesis, crystal structures and reactions of (F.G.N. Cloke, P.J. Fyne, V.C. Gibson, M.L.H. Green, M.J. Ledoux, R.N. Perutz, A. Dix, A. Gourdon, C.K. Prout), 61

Tellurium

Diaryl ditellurides, alkaline hydrolysis under phase transfer conditions of; synthesis of alkyl aryl tellurides (J.V.

- Comasseto, J.T.B. Ferreira, J.A. Fontanillas Val), 261
- Distiba-selenanes, -telluranes and a tellurostibane, syntheses of (H.J. Breunig, H. Jawad), 257
- Organytellurium(IV) carboxylates, maleates, β -mercaptopropionates and related compounds, characterisation by IR, NMR and mass spectra of (S.S. Abed-Ali, W.R. McWhinnie), 365
- Tellurium(IV) chlorides, reactions with organosilicon hydrides of (R.K. Chadha, J.E. Drake, M.K.H. Neo), 47

Thallium

- Trifluoromethyl-Group III compounds, metal vapour synthesis of (T.R. Bier-schenk, T.J. Juhlke, W.I. Bailey, Jr., R.J. Lagow), 1

Thorium

- Cyclopentadienyl-Group IIIA and -Group IVA compounds, steric factor dependence of structures of (E.B. Lobkovsky), 53

Tin

- ArXH and ArXM (X = O, S, NR; M = Hg, Sn, Pb, Sb) type compounds, polarity of XH and XM bonds and their capacity for coordination and dissociation in (L.M. Epstein, Ye.S. Shubina, L.D. Ashkinadze, D.N. Kravtsov), 153
- $\text{CH}_2[(\text{C}_6\text{H}_5)_2\text{Sn}(\text{SCH}_2\text{CH}_2)_2\text{NCH}_3]_2$, synthesis, crystal and molecular structure and dynamic stereochemistry of (R. Willem, M. Gielen, J. Meunier-Piret, M. Van Meerssche, K. Jurkschat, A. Tzschach), 335
- Dodecaphenylcyclohexastannane and dodecabenzylcyclohexastannane dimethylformamide, crystal structures of (H. Puff, C. Bach, H. Reuter, W. Schuh), 17
- Ketoalkyltin chlorides, synthesis via *in situ* condensation and hydrostannation of ketonic substrates of (J.W. Burley, P. Hope, A.G. Mack), 37
- Silver-tin complex salt, $[\text{Ag}(\text{PPh}_3)_4]_2[\text{SnPh}_2(\text{NO}_3)_2(\text{Cl}, \text{NO}_3)]$, synthesis and crystal and molecular structure of (C. Pelizzi, G. Pelizzi, P. Tarasconi), 29

- (Triphenyl)germyl and (triphenyl)stannyl substituted allenes, convenient synthesis of (K. Ruitenbergh, H. Westmijze, H. Kleijn, P. Vermeer), 227
- Trivinyltin chloride, bromide and iodide, IR, Raman and NMR spectra of (E. Vincent, L. Verdonck, L. Naessens, G.P. Van der Kelen), 235

Titanium

- 1,1'-Bis(*N,N*-dimethylamino)-ferrocene, -cobalticinium hexafluorophosphate, and -titanocene dichloride, preparation and crystal structure of the titanocene dichloride (K.-P. Stahl, G. Boche, W. Massa), 113
- Cyclopentadienyl-Group IIIA and -Group IVA compounds, steric factor dependence of structures of (E.B. Lobkovsky), 53

Tungsten

- Hexacarbonyl-chromium, -molybdenum and -tungsten, photochemical substitution with phosphinothioformamide ligands on (U. Kunze, H. Jawad), C31
- Pentacarbonyl-chromium, -molybdenum and -tungsten complexes with amine and benzochinonediimine ligands, synthesis and behaviour on oxidation of (D. Sellmann, J. Müller), 379
- Trimethylphosphine complexes of molybdenum and tungsten; synthesis and chemical properties of $\text{MoCl}_4(\text{PMe}_3)_3$ and crystal and molecular structures of $\text{WCl}_4(\text{PMe}_3)_3$ and $\text{MoO}(\text{acac})_2\text{PMe}_3$ (R.D. Rogers, E. Carmona, A. Galindo, J.L. Atwood, L.G. Canada), 403
- Tris[*bis*-1,2-(dimethylphosphino)ethane] zerovalent derivatives of chromium, molybdenum, tungsten, vanadium, niobium and tantalum, synthesis, crystal structures and reactions of (F.G.N. Cloke, P.J. Fyne, V.C. Gibson, M.L.H. Green, M. Ledoux, R.N. Perutz, A. Dix, J. Gourdon, C.K. Prout), 61

Uranium

- Cyclopentadienyl-Group IIIA and -Group IVA compounds, steric factor dependence of structures of (E.B. Lobkovsky), 53

Vanadium

Cyclopentadienyl-Group IIIA and -Group IVA compounds, steric factor dependence of structures of (E.B. Lobkovsky), 53

Tris[bis-1,2-(dimethylphosphino)ethane] zerovalent derivatives of chromium, molybdenum, tungsten, vanadium, niobium and tantalum, synthesis, crystal structures and reactions of (F.G.N. Cloke, P.J. Fyne, V.C. Gibson, M.L.H. Green, M.J. Ledoux, R.N. Perutz, A. Dix, A. Gourdon, C.K. Prout), 61

Ytterbium

Organoytterbium(III) compounds, synthesis by oxidation of dicyclopentadienylytterbium(II) of; crystal struc-

ture of $[(\eta\text{-C}_5\text{H}_5)_2\text{Yb}(\text{O}_2\text{CC}_6\text{F}_5)]$ (G.B. Deacon, G.D. Fallon, P.I. McKinnon, R.H. Newnham, G.N. Pain, T.D. Tuong, D.L. Wilkinson), C22

Zirconium

Cyclopentadienyl-Group IIIA and -Group IVA compounds, steric factor dependence of structures of (E.B. Lobkovsky), 53

Book reviews

Catalytic conversion of synthesis gas and alcohols to chemicals; edited by R.G. Herman (G.J. Leigh), C35

Gmelin Handbook of inorganic chemistry, 8th edit., U — Uranium, Suppl. Vol. C10: Compounds with sulphur (K.R. Seddon), C11