

- Salimgareeva, I.M., 319  
 Salter, I.D., 273  
 Sansoni, M., C35  
 Sappa, E., 391  
 Satgé, J., C17  
 Schnering, H.G. v., 63  
 Scordia, H., 371  
 Seyferth, K., 365  
 Sharp, D.W.A., 127  
 Sheldrick, G.M., 47, 97  
 Shreeve, J.M., C13  
 Simons, L.H., 195  
 Smith, J.D., 23  
 Snaith, R., C1  
 Stone, F.G.A., 273
- Struchkov, Yu.T., 319  
 Taghipour, M.T., 55  
 Taube, R., 365  
 Thelen, G., C38  
 Tirpicchio, A., 391  
 Ungváry, F., 411  
 Usón, R., 437  
 Van den Bergen, A.M., 205  
 Vargas, M., C21  
 Vargas, M.D., 255  
 Villieras, J., 315
- Wade, K., C1  
 Walkinshaw, M.D., 227  
 Wallwork, S.C., C1  
 Wannagat, U., 33  
 Weber, D., 63  
 Weber, G., 149  
 West, B.O., 205  
 Wharf, I., C9  
 Whitelock, J.D., 227  
 Williamson, S.M., C13  
 Winter, M., C28  
 Winzenburg, M.L., 415  
 Zuckerman, J.J., 81

## JOURNAL OF ORGANOMETALLIC CHEMISTRY, VOL. 249 (1983)

### SUBJECT INDEX

#### Aluminium

- Cycloaluminadisilatriazane, preparation and NMR spectra of (U. Wannagat, T. Blumenthal, D.J. Brauer, H. Bürger), 33  
 Lithium aluminium hydride solutions in diethyl ether, accurate titration method for (J. Villieras, M. Rambaud, B. Kirschleger), 315  
 Silicium ylids, stabilisation by adduct formation with aluminium trihalides; crystal structure of  $[(\text{Me}_3\text{C})_2\text{SiNCMe}_3]_2^- \text{AlClF}_2$  (W. Clegg, U. Klingebiel, J. Neemann, G.M. Sheldrick), 47  
 Tris(trimethylsilyl)methyl derivatives of boron, aluminium and gallium, preparation and properties of (C. Eaborn, M.N. El-Kheli, N. Retta, J.D. Smith), 23

#### Arsenic

- $\text{M}(\text{CO})_n\text{L}$  (M = Cr, Mo, W) complexes with chelating ligands: (2-Me<sub>2</sub>E'C<sub>6</sub>H<sub>4</sub>)-Si(EMe<sub>2</sub>)Me<sub>2</sub> and (4-XC<sub>6</sub>H<sub>4</sub>)SiMe(EMe<sub>2</sub>)CH<sub>2</sub>CH<sub>2</sub>E'Me<sub>2</sub> (X = F, Cl; E, E' = N, P, As) (P. Aslanidis, J. Grobe), 103  
 1-Phenyl-2,5-diaryl(dialkyl)-arsoles, conversion with alkali metal and organolithium compounds of (G. Märkl, H. Hauptmann, A. Merz), 335

#### Boron

- closo*-Carborane system, unusual halogen exchange in (K. Fuller, T. Onak), C6  
 Dimeric aldiminoborane and monomeric paddle-wheel shaped tris(ketimino)-borane (J.R. Jennings, R. Snaith, M.M. Mahmoud, S.C. Wallwork, S.J. Bryan, J. Halfpenny, E.A. Petch, K. Wade), C1  
 Osmaboranes and iridatetraborane, synthesis and NMR spectra of (J. Bould, N.N. Greenwood, J.D. Kennedy), 11  
 Tris(trimethylsilyl)methyl derivatives of boron, aluminium and gallium, preparation and properties of (C. Eaborn, M.N. El-Kheli, N. Retta, J.D. Smith), 23

#### Chromium

- (Alkyl and perfluoroalkyl) C-nitroso-transition metal complexes, <sup>15</sup>N NMR comparisons of (D.H. Evans, D.M.P. Mingos, J. Mason, A. Richards), 293  
 Hexacarbonyl-chromium, -molybdenum and -tungsten, preparation and characterisation of 4,4'-disubstituted 2,2'-bipyridine derivatives of (J.A. Connor, C. Overton), 165  
 Hexacarbonyl-Group VI metal compounds, photochemistry in polyvinylchloride film matrices at 12–298 K; reactivity of  $\text{M}(\text{CO})_6$  and  $\text{M}(\text{CO})_5$  (R.H. Hooker, A.J. Rest), 137

$M(\text{CO})_n\text{L}$  ( $M = \text{Cr, Mo, W}$ ) complexes with chelating ligands:  $(2\text{-Me}_2\text{E}'\text{C}_6\text{H}_4)\text{-Si}(\text{EMe}_2)\text{Me}_2$  and  $(4\text{-XC}_6\text{H}_4)\text{SiMe}(\text{EMe}_2)\text{CH}_2\text{CH}_2\text{E}'\text{Me}_2$  ( $X = \text{F, Cl; E, E}' = \text{N, P, As}$  (P. Aslanidis, J. Grobe), 103

## Cobalt

- (Alkyl and perfluoroalkyl) *C*-nitroso-transition metal complexes,  $^{15}\text{N}$  NMR comparisons of (D.H. Evans, D.M.P. Mingos, J. Mason, A. Richards), 293
- Dodecacarbonyltetracobalt unsupported in flowing hydrogen, determination of kinetic parameters of thermal decomposition of (D. Labroue, R. Pince, R. Queau), 405
- Perfluoroalkylcobalt organometallic compounds, synthesis and electrochemistry (A.M. van den Bergen, D.J. Brockway, B.O. West), 205
- Tetracarbonylhydrocobalt and carbon monoxide, effect of solvent viscosity on the reaction with styrenes of (F. Ungváry, L. Markó), 411

## Gallium

Tris(trimethylsilyl)methyl derivatives of boron, aluminium and gallium, preparation and properties of (C. Eaborn, M.N. El-Kheli, N. Retta, J.D. Smith), 23

## Germanium

- Dimethylgermathione and dimethylsilathione generation and their detection in the gas phase by PES (C. Guimon, G. Pfister-Guillouzo, H. Lavayssiere, G. Dousse, J. Barrau, J. Satgé), C17
- Heptaphosphanortricyclenes: derivatives and homologues of  $\text{P}_7(\text{SiMe}_3)_3$  (G. Fritz, K.D. Hoppe, W. Höhle, D. Weber, C. Mujica, V. Manriquez, H.-G. v. Schnering), 63
- Vinyl germanes, interaction with iron carbonyls of; crystal structure of  $\text{Ge}[\text{Fe}(\text{CO})_4]_4$  (A.S. Batsanov, L.V. Rybin, M.I. Rybinskaya, Yu.T. Struchkov, I.M. Salimgreeva, N.G. Bogatova), 319

## Gold

- Di- $\mu$ -halo- and pseudohalo-tetrakis(pentafluorophenyl)digold(III), synthesis and reactions of (R. Usón, A. Laguna, M. Laguna, M. Abad), 437
- Gold-ruthenium pentanuclear clusters, metal framework arrangements in; crystal structures of  $[\text{Au}_2\text{Ru}_3(\mu_3\text{-S})(\text{CO})_8(\text{PPh}_3)_3]$  and  $[\text{Au}_2\text{Ru}_3(\mu\text{-H})(\mu_3\text{-COMe})(\text{CO})_9(\text{PPh}_3)_2]$  (L.J. Farrugia, M.J. Freeman, M. Green, A.G. Orpen, F.G.A. Stone, I.D. Salter), 273

## Iridium

- Iridium-substituted difluorophosphines, preparation and properties of; synthesis of  $\text{PF}_2$ -bridged heterometal complexes (E.A.V. Ebsworth, R.O. Gould, N.T. McManus, D.W.H. Rankin, M.D. Walkinshaw, J.D. Whitelock), 227
- Osmaboranes and iridatetaborane, synthesis and NMR spectra of (J. Bould, N.N. Greenwood, J.D. Kennedy), 11

## Iron

- (Alkyl and perfluoroalkyl) *C*-nitroso-transition metal complexes,  $^{15}\text{N}$  NMR comparisons of (D.H. Evans, D.M.P. Mingos, J. Mason, A. Richards), 293
- $\eta^5$ -Cyclopentadienylbis[tris(2,2,2-trifluoroethyl)phosphito]iodoiron(II), preparation of (J.M. Shreeve, S.M. Williamson), C13
- $\alpha$ -*N,N*-Dimethylaminoethylferrocene, lithiation of; single crystal structure of  $[(\eta^5\text{-C}_5\text{H}_4\text{Li})\text{Fe}(\eta^5\text{-C}_5\text{H}_3\text{LiCH}(\text{Me})\text{-NMe}_2)]_4[\text{LiOEt}]_2(\text{TMED})_2$  (I.R. Butler, W.R. Cullen, J. Reglinski, S.J. Rettig), 183
- $[\text{Fe}_3(\text{CO})_9(\mu_3\text{-O})]^{2-}$  dianion, synthesis and structural characterisation of (A. Ceriotti, L. Resconi, F. Demartin, G. Longoni, M. Manassero, M. Sansoni), C35
- Ferrocenes via reaction of atoms with alkynes (L.H. Simons, J.J. Lagowski), 195
- Vinyl germanes, interaction with iron carbonyls of; crystal structure of

Ge[Fe(CO)<sub>4</sub>]<sub>4</sub> (A.S. Batsanov, L.V. Rybin, M.I. Rybinskaya, Yu.T. Struchkov, I.M. Salimgreeva, N.G. Bogatova), 319

## Lead

Heptaphosphanortricyclenes: derivatives and homologues of P<sub>7</sub>(SiMe<sub>3</sub>)<sub>3</sub> (G. Fritz, K.D. Hoppe, W. Hönle, D. Weber, C. Mujica, V. Manriquez, H.-G. v. Schnering), 63

Triphenyllead selenocyanate, solvent-induced linkage isomerism and ionisation in solutions of (M. Onyszchuk, I. Wharf), C9

## Lithium

$\alpha$ -*N,N*-Dimethylaminoethylferrocene, lithiation of; single crystal structure of [( $\eta^5$ -C<sub>5</sub>H<sub>4</sub>Li)Fe( $\eta^5$ -C<sub>5</sub>H<sub>3</sub>LiCH(Me)-NMe<sub>2</sub>)]<sub>4</sub>[LiOEt]<sub>2</sub>(TMED)<sub>2</sub> (I.R. Butler, W.R. Cullen, J. Reglinski, S.J. Rettig), 183

Lithiomethanes (CH<sub>4-n</sub>Li<sub>n</sub>), synthesis of and characterisation of the vapour species by flash vapourisation mass spectroscopy of (F.J. Landro, J.A. Gurak, J.W. Chinn, Jr., R.J. Lagow), 1

1-Phenyl-2,5-diaryl(dialkyl)-arsoles, conversion with alkali metal and organolithium compounds of (G. Märkl, H. Hauptmann, A. Merz), 335

## Magnesium

Magnesocene, geometry and bonding of, an ab-initio MO-LCAO investigation (K. Faegri, Jr., J. Almlöf, H.P. Lüthi), 303

## Main metals — general

Fast atom bombardment mass spectrometry, a new technique for the organometallic chemist (J.M. Miller), 299

## Manganese

Halopentacarbonyl-manganese and -rhenium, Raman intensity anomalies and intermediate mode behaviour in the  $\nu$ (CO) region in mixed crystals of (M. Arif, S.F.A. Kettle), 175

Iodotris- and tetrakis-(pentacarbonylmetal)silane highly hindered derivatives containing manganese and rhenium, preparation and spectra of (B.J. Aylett, M.T. Taghipour), 55  
Tetracarbonyl- $\eta^3$ -pentadienylmanganese(I), photochemical synthesis of (M. Leyendecker, C.G. Kreiter), C31

## Metallocenes

Cyclopentadienylnickel complexes with seleno and telluro ethers as ligands, synthesis and reactivity of (N. Kuhn, M. Winter), C28

$\alpha$ -*N,N*-Dimethylaminoethylferrocene, lithiation of; single crystal structure of [( $\eta^5$ -C<sub>5</sub>H<sub>4</sub>Li)Fe( $\eta^5$ -C<sub>5</sub>H<sub>3</sub>LiCH(Me)-NMe<sub>2</sub>)]<sub>4</sub>[LiOEt]<sub>2</sub>(TMED)<sub>2</sub> (I.R. Butler, W.R. Cullen, J. Reglinski, S.J. Rettig), 183

Ferrocenes via reaction of atoms with alkynes (L.H. Simons, J.J. Lagowski), 195

Magnesocene, geometry and bonding of, an ab-initio MO-LCAO investigation (K. Faegri, Jr., J. Almlöf, H.P. Lüthi), 303

## Molybdenum

(Alkyl and perfluoroalkyl) *C*-nitroso-transition metal complexes, <sup>15</sup>N NMR comparisons of (D.H. Evans, D.M.P. Mingos, J. Mason, A. Richards), 293

Complex catalysts for olefin metathesis, structure-activity relationships of (R. Taube, K. Seyferth), 365

Dicyclopentadienyl-molybdenum and -tungsten dihydrides, insertion reactions with cyanoacetylene and dicyanoacetylene into the M—H bonds of (H. Scordia, R. Kergoat, M.M. Kubicki, J.E. Guerschais), 371

Hexacarbonyl-chromium, -molybdenum and -tungsten, preparation and characterisation of 4,4'-disubstituted 2,2'-bipyridine derivatives of (J.A. Connor, C. Overton), 165

Hexacarbonyl-Group VI metal compounds, photochemistry in polyvinylchloride film matrices at 12–298 K; reactivity of M(CO)<sub>6</sub> and M(CO)<sub>5</sub> THF (R.H. Hooker, A.J. Rest), 137

$M(\text{CO})_nL$  ( $M = \text{Cr}, \text{Mo}, \text{W}$ ) complexes with chelating ligands:  $(2\text{-Me}_2\text{E}'\text{C}_6\text{H}_4)\text{-Si}(\text{EMe}_2)_2\text{Me}_2$  and  $(4\text{-XC}_6\text{H}_4)\text{SiMe}(\text{EMe}_2)\text{CH}_2\text{CH}_2\text{E}'\text{Me}_2$  ( $X = \text{F}, \text{Cl}; \text{E}, \text{E}' = \text{N}, \text{P}, \text{As}$ ) (P. Aslanidis, J. Grobe), 103

Phosphine and phosphite derivatives of bimetallic Group VI complexes, ligand transfer and oxidative decarbonylation in; crystal structure of  $[(\text{C}_5\text{H}_5)(\text{CO})_2\bar{W}(\mu\text{-SMe})(\mu\text{-I})\bar{W}(\text{CO})_3]\text{I}$ ] (J.L. Le Quéré, F.Y. Pétillon, J.E. Guerschais, Lj. Manojlovic-Muir, K.W. Muir, D.W.A. Sharp), 127

## Nickel

$[\text{CH}_3\text{C}(\text{S})\text{CHC}(\text{S})\text{CH}_3][\text{CH}_3\text{S}(\text{O})(\text{CH}_2)_2]\text{Ni}$ , crystal and molecular structure of (D.S. Dudis, J.P. Fackler, Jr.), 289

Cyclopentadienylnickel complexes with seleno and telluro ethers as ligands, synthesis and reactivity of (N. Kuhn, M. Winter), C28

Nickel—carbon bonds, stoichiometric insertion of carbon dioxide and ethylene into (A. Behr, W. Keim, G. Thelen), C38

## Osmium

(Alkyl and perfluoroalkyl) *C*-nitroso-transition metal complexes,  $^{15}\text{N}$  NMR comparisons of (D.H. Evans, D.M.P. Mingos, J. Mason, A. Richards), 293

Decacarbonylbromohexafluorobutentriosoium anion, structure and reactivity of; X-ray structures of  $[(\text{Ph}_3\text{P})_2\text{N}][\text{Os}_3(\text{CO})_{10}\{\text{CF}_3(\text{H})\text{C}=\text{C}(\text{H})\text{CF}_3\}_2\text{Br}]$ ,  $[(\text{Ph}_3\text{P})_2\text{N}][\text{Os}_3(\text{CO})_9\{\text{CF}_3(\text{H})\text{C}=\text{C}(\text{H})\text{CF}_3\}_2(\mu\text{-Br})]$  and  $[\text{HOs}_3(\text{CO})_9\{\text{CF}_3(\text{H})\text{C}=\text{C}(\text{H})\text{CF}_3\}_2(\mu\text{-Br})]$  (Z. Dawoodi, M.J. Mays, P.R. Raithby, K. Henrick, W. Clegg, G. Weber), 149

Dodecacarbonyltriosmium and decacarbonyldihydrotriosmium, reactions with *t*-butylacetylene of; characterisation of the products and crystal structure of  $\text{HOs}_3(\text{CO})_{10}(\text{HC}=\text{CHBu-t})$  (E. Sappa, A. Tiripicchio, A.M.M. Lanfredi), 391

$\text{HOs}_3(\text{CO})_{22}\text{I}$ , synthesis and X-ray analysis of (B.F.G. Johnson, J. Lewis, W.J.H. Nelson, M. Vargas, D. Braga, M. McPartlin), C21

Iridium-substituted difluorophosphines, preparation and properties of; synthesis of  $\text{PF}_2$ -bridged heterometal complexes (E.A.V. Ebsworth, R.O. Gould, N.T. McManus, D.W.H. Rankin, M.D. Walkinshaw, J.D. Whitelock), 227

Metal-carbido complexes of ruthenium and osmium, preparation of (B.F.G. Johnson, J. Lewis, W.J.H. Nelson, J.N. Nicholls, M.D. Vargas), 255

Osmaboranes and iridatetaborane, synthesis and NMR spectra of (J. Bould, N.N. Greenwood, J.D. Kennedy), 11

## Phosphorus

(Alkyl and perfluoroalkyl) *C*-nitroso-transition metal complexes,  $^{15}\text{N}$  NMR comparisons of (D.H. Evans, D.M.P. Mingos, J. Mason, A. Richards), 293

Bis[tris(trimethylsilyl)methyl]diphosphene, structure of (J. Jaud, C. Couret, J. Escudie), C25

Cycloocta-1,5-dienerrhodium(I) complexes containing dibutyldihalocyclo-diphosphazanes and related ligands, synthesis and NMR study of; crystal and molecular structure of bis{(chloro)-(cycloocta-1,5-diene)}{1,3-di-*t*-butyl-2,4-difluorocyclo-diphosphazane}-dirhodium(I) (J.C.T.R. Burckett St. Laurent, P.B. Hitchcock, J.F. Nixon), 243

$\eta^5$ -Cyclopentadienylbis[tris(2,2,2-trifluoroethyl)phosphito]iodoiron(II), preparation of (J.M. Shreeve, S.M. Williamson), C13

Decacarbonylbromohexafluorobutentriosoium anion, structure and reactivity of; X-ray structures of  $[(\text{Ph}_3\text{P})_2\text{N}][\text{Os}_3(\text{CO})_{10}\{\text{CF}_3(\text{H})\text{C}=\text{C}(\text{H})\text{CF}_3\}_2\text{Br}]$ ,  $[(\text{Ph}_3\text{P})_2\text{N}][\text{Os}(\text{CO})_9\{\text{CF}_3(\text{H})\text{C}=\text{C}(\text{H})\text{CF}_3\}_2(\mu\text{-Br})]$  and  $[\text{HOs}_3(\text{CO})_9\{\text{CF}_3(\text{H})\text{C}=\text{C}(\text{H})\text{CF}_3\}_2(\mu\text{-Br})]$  (Z. Dawoodi, M.J. Mays, P.R. Raithby, K. Henrick, W. Clegg, G. Weber), 149

Gold—ruthenium pentanuclear clusters, metal framework arrangements in; crystal structures of  $[\text{Au}_2\text{Ru}_3(\mu_3\text{-S})(\text{CO})_8(\text{PPh}_3)_3]$  and  $[\text{Au}_2\text{Ru}_3(\mu\text{-H})(\mu_3\text{-CO})_2(\text{CO})_9(\text{PPh}_3)_2]$  (L.J. Farrugia, M.J. Freeman, M. Green, A.G. Orpen, F.G.A. Stone, I.D. Salter), 273

- Heptaphosphanortricyclenes: derivatives and homologues of  $P_7(\text{SiMe}_3)_3$**  (G. Fritz, K.D. Hoppe, W. Hönlle, D. Weber, C. Mujica, V. Manriquez, H.-G. v. Schnering), 63
- Iridium-substituted difluorophosphines, preparation and properties of; synthesis of  $\text{PF}_2$ -bridged heterometal complexes** (E.A.V. Ebsworth, R.O. Gould, N.T. McManus, D.W.H. Rankin, M.D. Walkinshaw, J.D. Whitelock), 227
- $\text{M}(\text{CO})_n\text{L}$  ( $\text{M} = \text{Cr}, \text{Mo}, \text{W}$ ) complexes with chelating ligands:  $(2\text{-Me}_2\text{E}'\text{C}_6\text{H}_4)\text{-Si}(\text{EMe}_2)_2\text{Me}_2$  and  $(4\text{-XC}_6\text{H}_4)\text{SiMe}(\text{EMe}_2)\text{CH}_2\text{CH}_2\text{E}'\text{Me}_2$  ( $\text{X} = \text{F}, \text{Cl}$ ;  $\text{E}, \text{E}' = \text{N}, \text{P}, \text{As}$ )** (P. Aslanidis, J. Grobe), 103
- Osmaboranes and iridatetraborane, synthesis and NMR spectra of** (J. Bould, N.N. Greenwood, J.D. Kennedy), 11
- Phosphine and phosphite derivatives of bimetallic Group VI complexes, ligand transfer and oxidative decarbonylation in; crystal structure of  $[(\text{C}_2\text{H}_5)_2(\text{CO})_2\text{W}(\mu\text{-SMe})(\mu\text{-I})\text{W}(\text{CO})_3\text{I}]$**  (J.L. Le Quééré, F.Y. Pétillon, J.E. Guerschais, Lj. Manojlovic-Muir, K.W. Muir, D.W.A. Sharp), 127
- Platinum(II)-tin bonded compounds,  $^{31}\text{P}$ ,  $^{119}\text{Sn}$  and  $^{195}\text{Pt}$  NMR studies on** (S. Carr, R. Colton, D. Dakternieks), 327
- $[\text{Rh}_4(\mu\text{-PPh}_2)_4(\mu\text{-CO})_2(\text{CO})_4]$ , synthesis and crystal structure of its monoclinic form of** (C.P. Lau, C.Y. Ren, L. Book, T.C.W. Mak), 429

## Platinum

- Iridium-substituted difluorophosphines, preparation and properties of; synthesis of  $\text{PF}_2$ -bridged heterometal complexes** (E.A.V. Ebsworth, R.O. Gould, N.T. McManus, D.W.H. Rankin, M.D. Walkinshaw, J.D. Whitelock), 227
- Platinum(II)-tin bonded compounds,  $^{31}\text{P}$ ,  $^{119}\text{Sn}$  and  $^{195}\text{Pt}$  NMR studies on** (S. Carr, R. Colton, D. Dakternieks), 327
- Rhodium(I) and platinum(II) complexes with chelating bidentate isonitrile ligands** (M.L. Winzenburg, J.A. Kargol, R.J. Angelici), 415

## Potassium

- 1-Phenyl-2,5-diaryl(diakyl)-arsoles, conversion with alkali metal and organolithium compounds of** (G. Märkl, H. Hauptmann, A. Merz), 335

## Rhenium

- Halopentacarbonyl-manganese and -rhenium, Raman intensity anomalies and intermediate mode behaviour in the  $\nu(\text{CO})$  region in mixed crystals of** (M. Arif, S.F.A. Kettle), 175
- Iodotris- and tetrakis-(pentacarbonyl-metal)silane highly hindered derivatives containing manganese and rhenium, preparation and spectra of** (B.J. Aylett, M.T. Taghipour), 55

## Rhodium

- (Alkyl and perfluoroalkyl) C-nitroso-transition metal complexes,  $^{15}\text{N}$  NMR comparisons of** (D.H. Evans, D.M.P. Mingos, J. Mason, A. Richards), 293
- Cycloocta-1,5-dienerrhodium(I) complexes containing dibutyldihalocyclophosphazanes and related ligands, synthesis and NMR study of; crystal and molecular structure of bis{(chloro)-(cycloocta-1,5-diene)}{1,3-di-*t*-butyl-2,4-difluorocyclodiphosphazane}dihydorhodium(I)** (J.C.T.R. Burckett St. Laurent, P.B. Hitchcock, J.F. Nixon), 243
- Rhodium(I) and platinum(II) complexes with chelating bidentate isonitrile ligands** (M.L. Winzenburg, J.A. Kargol, R.J. Angelici), 415
- $[\text{Rh}_4(\mu\text{-PPh}_2)_4(\mu\text{-CO})_2(\text{CO})_4]$ , synthesis and crystal structure of its monoclinic form of** (C.P. Lau, C.Y. Ren, L. Book, T.C.W. Mak), 429

## Ruthenium

- (Alkyl and perfluoroalkyl) C-nitroso-transition metal complexes,  $^{15}\text{N}$  NMR comparisons of** (D.H. Evans, D.M.P. Mingos, J. Mason, A. Richards), 293
- Gold-ruthenium pentanuclear clusters, metal framework arrangements in;**

crystal structures of  $[\text{Au}_2\text{Ru}_3(\mu_3\text{-S})(\text{CO})_8(\text{PPh}_3)_3]$  and  $[\text{Au}_2\text{Ru}_3(\mu\text{-H})(\mu_3\text{-COMe})(\text{CO})_9(\text{PPh}_3)_2]$  (L.J. Farrugia, M.J. Freeman, M. Green, A.G. Orpen, F.G.A. Stone, I.D. Salter), 273

Iridium-substituted difluorophosphines, preparation and properties of; synthesis of  $\text{PF}_2$ -bridged heterometal complexes (E.A.V. Ebsworth, R.O. Gould, N.T. McManus, D.W.H. Rankin, M.D. Walkinshaw, J.D. Whitelock), 227

Metal-carbido complexes of ruthenium and osmium, preparation of (B.F.G. Johnson, J. Lewis, W.J.H. Nelson, J.N. Nicholls, M.D. Vargas), 255

## Selenium

Cyclopentadienylnickel complexes with seleno and telluro ethers as ligands, synthesis and reactivity of (N. Kuhn, M. Winter), C28

Iridium-substituted difluorophosphines, preparation and properties of; synthesis of  $\text{PF}_2$ -bridged heterometal complexes (E.A.V. Ebsworth, R.O. Gould, N.T. McManus, D.W.H. Rankin, M.D. Walkinshaw, J.D. Whitelock), 227

Silver complexes with trimeric thioformaldehyde and trimeric selenoformaldehyde, synthesis and structures of (H. Hofmann, P.G. Jones, M. Noltemeyer, E. Peymann, W. Pinkert, H.W. Roesky, G.M. Sheldrick), 97

Triphenyllead selenocyanate, solvent-induced linkage isomerism and ionisation in solutions of (M. Onyszchuk, I. Wharf), C9

## Silicon

Bis[tris(trimethylsilyl)methyl]diphosphene, structure of (J. Jaud, C. Couret, J. Escudié), C25

Cycloalumadisilatiazane, preparation and NMR spectra of (U. Wannagat, T. Blumenthal, D.J. Brauer, H. Bürger), 33

Dimethylgermathione and dimethylsilathione generation and their detection in the gas phase by PES (C. Guimon, G. Pfister-Guillouzo, H. Lavayssiere, G. Dousse, J. Barrau, J. Satgé), C17

Heptaphosphanortricyclenes: derivatives and homologues of  $\text{P}_7(\text{SiMe}_3)_3$  (G. Fritz, K.D. Hoppe, W. Hönle, D. Weber, C. Mujica, V. Manriquez, H.-G. v. Schnering), 63

Iodotris- and tetrakis-(pentacarbonylmetal)silane highly hindered derivatives containing manganese and rhenium, preparation and spectra of (B.J. Aylett, M.T. Taghipour), 55  
 $\text{M}(\text{CO})_n\text{L}$  ( $\text{M} = \text{Cr}, \text{Mo}, \text{W}$ ) complexes with chelating ligands:  $(2\text{-Me}_2\text{E}'\text{C}_6\text{H}_4)\text{-Si}(\text{EMe}_2)_2\text{Me}_2$  and  $(4\text{-XC}_6\text{H}_4)\text{SiMe}(\text{EMe}_2)\text{CH}_2\text{CH}_2\text{E}'\text{Me}_2$  ( $\text{X} = \text{F}, \text{Cl}$ ;  $\text{E}, \text{E}' = \text{N}, \text{P}, \text{As}$ ) (P. Aslanidis, J. Grobe), 103

Silicium ylids, stabilisation by adduct formation with aluminium trihalides; crystal structure of  $[(\text{Me}_3\text{C})\text{SiNCMe}_3]_2\text{-AlClF}_2$  (W. Clegg, U. Klingebiel, J. Neemann, G.M. Sheldrick), 47

Tris(trimethylsilyl)methyl derivatives of boron, aluminium and gallium, preparation and properties of (C. Eaborn, M.N. El-Kheli, N. Retta, J.D. Smith), 23

## Sodium

1-Phenyl-2,5-diaryl(diakyl)-arsoles, conversion with alkali metal and organolithium compounds of (G. Märkl, H. Hauptmann, A. Merz), 335

## Sulphur

$[\text{CH}_3\text{C}(\text{S})\text{CHC}(\text{S})\text{CH}_3][\text{CH}_3\text{S}(\text{O})\text{CH}_2]_2\text{Ni}$ , crystal and molecular structure of (D.S. Dudis, J.P. Fackler, Jr.), 289

Dimethylgermathione and dimethylsilathione generation and their detection in the gas phase by PES (C. Guimon, G. Pfister-Guillouzo, H. Lavayssiere, G. Dousse, J. Barrau, J. Satgé), C17

Gold-ruthenium pentanuclear clusters, metal framework arrangements in; crystal structures of  $[\text{Au}_2\text{Ru}_3(\mu_3\text{-S})(\text{CO})_8(\text{PPh}_3)_3]$  and  $[\text{Au}_2\text{Ru}_3(\mu\text{-H})(\mu_3\text{-COMe})(\text{CO})_9(\text{PPh}_3)_2]$  (L.J. Farrugia, M.J. Freeman, M. Green, A.G. Orpen, F.G.A. Stone, I.D. Salter), 273

Iridium-substituted difluorophosphines, preparation and properties of; syn-

thesis of  $\text{PF}_2$ -bridged heterometal complexes (E.A.V. Ebsworth, R.O. Gould, N.T. McManus, D.W.H. Rankin, M.D. Walkinshaw, J.D. Whitelock), 227

Phosphine and phosphite derivatives of bimetallic Group VI complexes, ligand transfer and oxidative decarbonylation in; crystal structure of  $[(\text{C}_5\text{H}_5)_2(\text{CO})_2\overline{\text{W}}(\mu\text{-SMe})(\mu\text{-I})\overline{\text{W}}(\text{CO})_2\text{I}]$  (J.L. Le Quéré, F.Y. Pétilion, J.E. Guerchais, Lj. Manojlović-Muir, K.W. Muir, D.W.A. Sharp), 127

Silver complexes with trimeric thioformaldehyde and trimeric selenoformaldehyde, synthesis and structures of (H. Hofmann, P.G. Jones, M. Noltemeyer, E. Peymann, W. Pinkert, H.W. Roesky, G.M. Sheldrick), 97

## Tellurium

Cyclopentadienylnickel complexes with seleno and telluro ethers as ligands, synthesis and reactivity of (N. Kuhn, M. Winter), C28

## Tin

Di- and tri-organotin(IV) derivatives of 2-benzoic acid (S.W. Ng, J.J. Zuckerman), 81

Heptaphosphanortricyclenes: derivatives and homologues of  $\text{P}_7(\text{SiMe}_3)_3$  (G. Fritz, K.D. Hoppe, W. Hönle, D. Weber, C. Mujica, V. Manriquez, H.-G. v. Schnering), 63

Platinum(II)-tin bonded compounds,  $^{31}\text{P}$ ,  $^{119}\text{Sn}$  and  $^{195}\text{Pt}$  NMR studies on (S. Carr, R. Colton, D. Dakternieks), 327

## Tungsten

(Alkyl and perfluoroalkyl) *C*-nitroso-transition metal complexes,  $^{15}\text{N}$  NMR comparisons of (D.H. Evans, D.M.P. Mingos, J. Mason, A. Richards), 293

Complex catalysts for olefin metathesis, structure-activity relationships of (R. Taube, K. Seyferth), 365

Dicyclopentadienyl-molybdenum and -tungsten dihydrides, insertion reactions with cyanoacetylene and dicyanoacetylene into the M-H bonds of (H. Scordia, R. Kergoat, M.M. Kubicki, J.E. Guerchais), 371

Hexacarbonyl-chromium, -molybdenum and -tungsten, preparation and characterisation of 4,4'-disubstituted 2,2'-bipyridine derivatives of (J.A. Connor, C. Overton), 165

Hexacarbonyl-Group VI metal compounds, photochemistry in polyvinylchloride film matrices at 12–298 K; reactivity of  $\text{M}(\text{CO})_6$  and  $\text{M}(\text{CO})_6$ -THF (R.H. Hooker, A.J. Rest), 137

$\text{M}(\text{CO})_n\text{L}$  (M = Cr, Mo, W) complexes with chelating ligands: (2- $\text{Me}_2\text{E}'\text{C}_6\text{H}_4$ )- $\text{Si}(\text{EMe}_2)_2\text{Me}_2$  and (4- $\text{XC}_6\text{H}_4$ ) $\text{SiMe}(\text{EMe}_2)\text{CH}_2\text{CH}_2\text{E}'\text{Me}_2$  (X = F, Cl; E, E' = N, P, As) (P. Aslanidis, J. Grobe), 103

Phosphine and phosphite derivatives of bimetallic Group VI complexes, ligand transfer and oxidative decarbonylation in; crystal structure of  $[(\text{C}_5\text{H}_5)_2(\text{CO})_2\overline{\text{W}}(\mu\text{-SMe})(\mu\text{-I})\overline{\text{W}}(\text{CO})_2\text{I}]$  (J.L. Le Quéré, F.Y. Pétilion, J.E. Guerchais, Lj. Manojlović-Muir, K.W. Muir, D.W.A. Sharp), 127