

JOURNAL OF ORGANOMETALLIC CHEMISTRY, VOL. 348 (1988)

SUBJECT INDEX

Antimony

- Cyclopentadienylantimony halides, syntheses and ^{121}Sb Mössbauer spectroscopy of (T.F. Berlitz, J. Pebler, J. Lorberth), (348) 175
 Tris(2,4,6-trimethylphenyl)hydroxyantimony carboxylates, synthesis of; crystal structure of tris(2,4,6-trimethylphenyl)hydroxyantimony 1-adamantylcarboxylate (T. Westhoff, F. Huber, H. Preut), (348) 185

Boron

- ($\eta^5\text{-C}_5\text{H}_5\text{Co}$)₂($\mu\text{-PPh}_2$)B₂H₅, preparation and characterisation of; evidence for multicentre cluster bonding (J. Feilong, T.P. Fehlner, A.L. Rheingold), (348) C22
 Dibenzobicyclic phenylboronates, synthesis and structures of (N. Farfán, P. Joseph-Nathan, L.M. Chiquete, R. Contreras), (348) 149
 1-(Diisopropylamino)borole as ligand in transition metal complexes; crystal and molecular structures of *cis*-Cr(CO)₂(C₄H₄BNPr₂¹)₂ and Mn(CO)(C₄H₄BNPr₂¹)₂ (G.E. Herberich, B. Hessner, H. Ohst, I.A. Raap), (348) 305

Chromium

- Arene-chromium and -iron complexes, transannular substituent effects in (V.V. Litvak, P.P. Kun, V.D. Shteingarts), (348) 219
 "Cr-H" species, reductive defluorination of perfluoropropylene trimer and perfluoro- $\Delta^{(10)}$ -octalin by (Y.-Z. Huang, J.-Q. Zhou), (348) 235
 1-(Diisopropylamino)borole as ligand in transition metal complexes; crystal and molecular structures of *cis*-Cr(CO)₂(C₄H₄BNPr₂¹)₂ and Mn(CO)(C₄H₄BNPr₂¹)₂ (G.E. Herberich, B. Hessner, H. Ohst, I.A. Raap), (348) 305
 Diterpenoid (η^6 -arene)tricarbonylchromium(0) complex, reactions of and functionalisation

of C(14) (R.C. Cambie, A.D. Erson, A.C. Gourdi, P.S. Rutledge, P.D. Woodgate), (348) 317

Group 6 metal tricarbonyls with ligating α -diimine and triethyl phosphite, convenient synthesis and characterisation of (T.S.A. Hor, S.R.B. Rus), (348) 343

Pentaphenylethanetricarbonylchromium(0) isomeric complexes, synthesis and X-ray structure determinations of (B. Misra, H.E. Zieger, J. Bordner), (348) 79

Tetranuclear chromium complex formed by fluoride abstraction from hexafluorophosphate; synthesis and structure of [$\eta^5\text{-Me}_3\text{C}_5$)₄Cr₄($\mu\text{-F}$)₅Cl₂]PF₆ (B.J. Thomas, J.F. Mitchell, K.H. Theopold, J.A. Leary) (348) 333

Transition metal complexes containing "naked" tellurium and selenium bridging ligands, ^{125}Te and ^{77}Se NMR spectra of (W.A. Herrmann, H.-J. Kneuper), (348) 193

Cobalt

($\eta^5\text{-C}_5\text{H}_5\text{Co}$)₂($\mu\text{-PPh}_2$)B₂H₅, preparation and characterisation of; evidence for multicentre cluster bonding (J. Feilong, T.P. Fehlner, A.L. Rheingold), (348) C22

Cyclopentadienylcobalt(III) complexes with dithiocarbamate and xanthate ligands, preparation, spectra and fluxional behaviour of; crystal structure of [Co($\eta\text{-C}_5\text{H}_5$)(I)(S₂CNEt₂)] (E.P. Cullen, J. Doherty, A.R. Manning, P. McArdle, D. Cunningham), (348) 109

(Ph₃P)₂Co(CH₂=CHCH₂CH₂CHO), 17-electron intermediate in paramagnetic cobalt(0) catalysis of 4-pentenal intramolecular hydroacylation (M.G. Vinogradov, A.B. Tuzikov, G.I. Nikishin, B.N. Shelimov, V.B. Kazansky), (348) 123

Transition metal complexes containing "naked" tellurium and selenium bridging ligands, ^{125}Te and ^{77}Se NMR spectra of (W.A. Herrmann, H.-J. Kneuper), (348) 193

Copper

$[(\text{Phen})(\text{Ph}_3\text{P})\text{Cu}(\text{O}_2\text{COH})]$, C–C coupling of activated alkanes with CO_2 by (G. La Monica, M.A. Angaroni, G.A. Ardizzoia), (348) 279

Germanium

t-Butyl (trialkylstannylyl)(trimethylgermyl)acetates synthesis and application of their anions to the Peterson-type reaction of (N. Kanemoto, Y. Sato, S. Inoue), (348) 25

Trialkyl-(2-furyl)germanes, reactions with electrophilic reagents of (E. Lukevics, L. Ignatovich, Yu. Goldberg, F. Polyak, A. Gaukhaman, S. Rozite, J. Popelis), (348) 11

Iridium

Phosphine-ruthenium, -osmium and -iridium complexes as precursors of terminal phosphido complexes, crystal structure of $[\text{Os}(\mu-\text{PH}_2)\text{Cl}(\text{CO})(\text{PPh}_3)_2]_2 \cdot (\text{C}_2\text{H}_2\text{Cl}_4)_4$ (D.S. Bohle, G.R. Clark, C.E.F. Rickard, W.R. Roper, M.J. Taylor), (348) 385

$[\text{3}-(\eta^5\text{-Tetramethylcyclopentadienyl})\text{l}-\text{(}\eta^6\text{-mesityl)}\text{propane}]$ iridium(II) bistetrafluoroborate mononitromethane, crystal and molecular structure of (P.O. Lumme, U. Turpeinen, V.S. Kaganovich, R.R. Kudinov, M.I. Rybinskaya), (348) 255

Iron

Arene-chromium and -iron complexes, transannular substituent effects in (V.V. Litvak, P.P. Kun, V.D. Shteingarts), (348) 219

Cyclopentadienyliron complexes used in nucleophilic substitution reactions of chloro- and nitro-arenes and synthesis of substituted arenes by demetallation (A.S. Abd-El-Aziz, C.C. Lee, A. Piórko, R.G. Sutherland), (348) 95

$[\text{Fe}(\text{CO})(\eta^4\text{-C}_4\text{Ph}_3\text{OMe})(\text{NO})(\text{PPh}_3)]\text{[BF}_4]$, a cationic η^4 -cyclobutadieneiron complex, formation of (U. Behrens, K.-J. Jens, J. Kopf, T. Valeri, E. Weiss), (348) 379

$\text{Fe}(\text{PH}_3)_4(\text{N}_2)$, ab initio calculations between iron(0) and dinitrogen on (M. Rosi, A. Sgamellotti, F. Tarantelli, C. Floriani), (348) C27

Pentacarboyliron catalysed selective reduction of aryl iodides under mild conditions (J.-J. Brunet, M. Taillefer), (348) C5

Transition-metal substituted carboxylic acids, one-pot synthesis of (M. Akita, N. Kakinuma, Y. Moro-oka), (348) 91

Manganese

1-(Diisopropylamino)borole as ligand in transition metal complexes; crystal and molecular structures of *cis*- $\text{Cr}(\text{CO})_2(\text{C}_4\text{H}_4\text{BNPr}_2^i)_2$ and $\text{Mn}(\text{CO})(\text{C}_4\text{H}_4\text{BNPr}_2^i)_2$ (G.E. Hieberich, B. Hessner, H. Ohst, I.A. Raap), (348) 305

Transition metal complexes containing “naked” tellurium and selenium bridging ligands, ^{125}Te and ^{77}Se NMR spectra of (W.A. Herrmann, H.-J. Kneuper), (348) 193

Transition metal substituted carboxylic acids, one-pot synthesis of (M. Akita, N. Kakinuma, Y. Koro-oka), (348) 91

Mercury

Alkylmercury halide fragmentation and structure of $\text{C}_2\text{H}_4\text{HgX}^+$ ion in the gas phase (D.V. Zagorevskii, M.S. Mikeladze, Yu.S. Nekrasov, N.I. Rayevsky, Yu.N. Sukharev, Yu.A. Borisov, S.Yu. Sil'vestrova, R.D. Rakhimov, A.I. Gren', A.C. Mazepa, O.S. Timofeev), (348) 285

Bis(2,4,6-trichlorophenoxyethyl)mercury, synthesis and crystal and molecular structure of (G.B. Deacon, B.M. Gatehouse, S.C. Ney), (348) 141

Molybdenum–mercury bonds and substituted cyclopentadienyl ligands containing complexes, $[(\text{C}_5\text{H}_{5-n}\text{R}_n)(\text{CO})_3\text{Mo}]\text{HgX}_{2-x}$ ($\text{R} = \text{Me}$, $n = 0, 1, 4, 5$; $\text{R} = \text{Ph}$, $n = 4$; $\text{X} = \text{Cl}$, Br , I ; $x = 1, 2$) ^{95}Mo and ^{199}Hg NMR of (M.M. Kubicki, J.Y. Le Gall, R. Pichon, J.Y. Salaun, M. Cano, J.A. Campo), (348) 349

Metallocenes

Arene-chromium and -iron complexes, transannular substituent effects in (V.V. Litvak, P.P. Kun, V.D. Shteingarts), (348) 219

Molybdenum

Group 6 metal tricarbonyls with ligating α -diimine and triethyl phosphite, convenient synthesis and characterisation of (T.S.A. Hor, S.R.B. Rus), (348) 343

(Hydridotris(3,5-dimethylpyrazol-1-yl)borato)tricarbonylmolybdenum, heat- and air-stable

- 17-electron radical and its sulphur-bridged dimer, formation of (K.-B. Shiu, L.-Y. Lee), (348) 357
- Molybdenum–mercury bonds and substituted cyclopentadienyl ligands containing complexes, $[(C_5H_{5-n}R_n)(CO)_3Mo]HgX_{2-x}$ ($R = Me, n = 0, 1, 4, 5; R = Ph, n = 4; X = Cl, Br, I; x = 1, 2$) ^{95}Mo and ^{199}Hg NMR of (M.M. Kubicki, J.Y. Le Gall, R. Pichon, J.Y. Salaun, M. Cano, J.A. Campo), (348) 349
- Transition metal complexes containing “naked” tellurium and selenium bridging ligands, ^{125}Te and ^{77}Se NMR spectra of (W.A. Herrmann, H.-J. Kneuper), (348) 193
- Transition metal substituted carboxylic acids, one-pot synthesis of (M. Akita, N. Kakinuma, Y. Koro-oka), (348) 91
- ## Nickel
- Acetylenenickel(0) complexes, structural comparison of (U. Rosenthal, H. Görls), (348) 135
- (η^3 -Allyl)nickel functionalised complexes, preparation, structure and intermolecular C–C coupling of (H. Hoberg, G. Heger, C. Krüger, Y.-H. Tsay), (348) 261
- ## Osmium
- Phosphine-ruthenium, -osmium and -iridium complexes as precursors of terminal phosphido complexes, crystal structure of $[Os(\mu_2-PH_2)Cl(CO)(PPh_3)_2]_2 \cdot (C_2H_2Cl_4)_4$ (D.S. Bohle, G.R. Clark, C.E.F. Rickard, W.R. Roper, M.J. Taylor), (348) 385
- ## Palladium
- Imino(2-pyridyl)methylpalladium(II) compounds, coordination properties of; preparation and thermal rearrangement of binuclear adducts with Pd^{II} and Pt^{II} chlorides (R. Bertani, A. Berton, F. Di Bianca, B. Crociani), (348) 411
- Nickel-catalysed cooligomerisation of 2-t-butyl-1,3-butadiene with butadiene (T. Bartik, P. Heimbach, T. Himmeler, R. Mynott), (348) C37
- ## Phosphorus
- ($\eta^5-C_5H_5Co_2(\mu-PPh_2)B_2H_5$, preparation and characterisation of; evidence for multicentre cluster bonding (J. Feilong, T.P. Fehlner, A.L. Rheingold), (348) C22
- Cyclopentadienylation of pentafulvenes with stannyl- and nitrosyl-carbonylvanadium complexes (D. Rehder, D. Wenke), (348) 205
- Ethenylbis(triphenylphosphine)platinum, $Pt(PPh_3)_2(C_2H_4)$, reactions with monofluorooacetylene and dichloroacetylene of; crystal structure of $Pt(PPh_3)_2(Cl)(C\equiv CCl)$ (K. Sünkel), (348) C12
- $[Fe(CO)(\eta^4-C_4Ph_3OMe)(NO)(PPh_3)][BF_4]$, a cationic η^4 -cyclobutadieneiron complex, formation of (U. Behrens, K.-J. Jens, J. Kopf, T. Valeri, E. Weiss), (348) 379
- Fluorine-containing halomethanephosphonate and methylenebisphosphonate esters, synthesis of (G.M. Blackburn, G.E. Taylor), (348) 55
- $[(Phen)(Ph_3P)Cu(O_2COH)]$, C–C coupling of activated alkanes with CO_2 by (G. La Monica, M.A. Angaroni, G.A. Ardizzoia), (348) 279
- Phosphine-ligand stabilisation by P-complexation with pentacarbonyltungsten (F. Mercier, F. Mathey, C. Afion-Akpan, J.F. Nixon), (348) 361
- Phosphine-ruthenium, -osmium and -iridium complexes as precursors of terminal phosphido complexes, crystal structure of $[Os(\mu_2-PH_2)Cl(CO)(PPh_3)_2]_2 \cdot (C_2H_2Cl_4)_4$ (D.S. Bohle, G.R. Clark, C.E.F. Rickard, W.R. Roper, M.J. Taylor), (348) 385
- $(Ph_3P)_2Co(CH_2=CHCH_2CH_2CHO)$, 17-electron intermediate in paramagnetic cobalt(0) catalysis of 4-pentenal intramolecular hydroacylation (M.G. Vinogradov, A.B. Tuzikov, G.I. Nikishin, B.N. Shelimov, V.B. Kazansky), (348) 123
- Silylphosphanes of the type $PSi_3Me_{9-x}(SiMe_3)_x$ ($x = 1-6$), formation and ^{31}P and ^{29}Si NMR of (K. Hassler), (348) 33
- Silylphosphanes of the type $PSi_3Me_{9-x}(SiMe_3)_x$ ($x = 1-6$), infrared and Raman spectra of (K. Hassler), (348) 41
- Tetranuclear chromium complex formed by fluoride abstraction from hexafluorophosphate; synthesis and structure of $[(\eta^5-Me_5C_5)_4Cr(\mu-F)_5Cl_2]PF_6$ (B.J. Thomas, J.F. Mitchell, K.H. Theopold, J.A. Leary), (348) 333
- Transition metal complexes containing “naked” tellurium and selenium bridging ligands, ^{125}Te and ^{77}Se NMR spectra of (W.A. Herrmann, H.-J. Kneuper), (348) 193
- ## Platinum
- Ethenylbis(triphenylphosphine)platinum, $Pt(PPh_3)_2(C_2H_4)$, reactions with monofluorooacetylene and dichloroacetylene of; crystal structure of $Pt(PPh_3)_2(Cl)(C\equiv CCl)$ (K. Sünkel), (348) C12

Imino(2-pyridyl)methylpalladium(II) compounds, coordination properties of; preparation and thermal rearrangement of binuclear adducts with Pd^{II} and Pt^{II} chlorides (R. Bertani, A. Berton, F. Di Bianca, B. Crociani), (348) 411

Nickel-catalysed cooligomerisation of 2-t-butyl-1,3-butadiene with butadiene (T. Bartik, P. Heimbach, T. Himmeler, R. Mynott), (348) C37

Rhenium

Organorhenium(V) and organovanadium(V) sulphur-containing oxides, preparation of (J. Kulpe, E. Herdtweck, G. Weichelbaumer, W.A. Herrmann), (348) 369

Transition metal complexes containing "naked" tellurium and selenium bridging ligands, ¹²⁵Te and ⁷⁷Se NMR spectra of (W.A. Herrmann, H.-J. Kneuper), (348) 193

Rhodium

cis-Hydride(ethoxycarbonyl) intermediate in homogeneous decarbonylation of ethyl formate at rhodium through C–H bond cleavage (C. Bianchini, M. Peruzzini, F. Vizza, F. Zanobini), (348) C9

Rhodium binuclear compounds bridged by bi-functional 2-mercaptopthiazolinolate anion (M. Cowie, T. Sielisch), (348) 241

Transition metal complexes containing "naked" tellurium and selenium bridging ligands, ¹²⁵Te and ⁷⁷Se NMR spectra of (W.A. Herrmann, H.-J. Kneuper), (348) 193

Ruthenium

Phosphine-ruthenium, -osmium and -iridium complexes as precursors of terminal phosphido complexes, crystal structure of [Os(μ -PH₂)Cl(CO)(PPh₃)₂]₂·(C₂H₂Cl₄)₄ (D.S. Bohle, G.R. Clark, C.E.F. Rickard, W.R. Roper, M.J. Taylor), (348) 385

Selenium

Methylation of aromatics with Me₃S⁺, Me₃Se⁺ and Me₃Te⁺ in superacid media (K. Laali, H.Y. Chen, R.J. Gerzina), (348) 199

Transition metal complexes containing "naked" tellurium and selenium bridging ligands, ¹²⁵Te and ⁷⁷Se NMR spectra of (W.A. Herrmann, H.-J. Kneuper), (348) 193

Silicon

Mono- or di-silylated bicyclo[n.1.0]-alkanes and -alkenes, structural analysis by ²⁹Si NMR of (M. Grignon-Dubois, M. Ahra, M. Laguerre), (348) 157

Silylphosphanes of the type PSi₃Me_{9-x}(SiMe₃)_x (x = 1–6), formation and ³¹P and ²⁹Si NMR of (K. Hassler), (348) 33

Silylphosphanes of the type PSi₃Me_{9-x}(SiMe₃)_x (x = 1–6), infrared and Raman spectra of (K. Hassler), (348) 41

Tetramesityldisilene, [2 + 1]-cycloaddition with phenyldiazomethane under formation of disilaaziridenes of (H. Piana, U. Schubert), (348) C19

2-Thienylsilanes, fragmentation under electron impact of (S. Rozite, I. Mažeika, A. Gaukhaman, N. Erchak, E. Lukevics), (348) 189

Trialkyl(2-furyl)germanes, reactions with electrophilic reagents of (E. Lukevics, L. Ignatovich, Yu. Goldberg, F. Polyak, A. Gaukhaman, S. Rozite, J. Popelis), (348) 11

Sulphur

Cyclopentadienylcobalt(III) complexes with dithiocarbamate and xanthate ligands, preparation, spectra and fluxional behaviour of; crystal structure of [Co(η -C₅H₅)(I)(S₂CNEt₂)] (E.P. Cullen, J. Doherty, A.R. Manning, P. McArdle, D. Cunningham), (348) 109

Cyclopentadienylation of pentafulvenes with stannylyl- and nitrosyl-carbonylvanadium complexes (D. Rehder, D. Wenke), (348) 205

(Hydridotris(3,5-dimethylpyrazol-1-yl)borato)tricarbonylmolybdenum, heat- and air-stable 17-electron radical and its sulphur-bridged dimer, formation of (K.-B. Shiu, L.-Y. Lee), (348) 357

Methylation of aromatics with Me₃S⁺, MeSe⁺ and Me₃Te⁺ in superacid media (M. Laali, H.Y. Chen, R.J. Gerzina), (348) 199

Organorhenium(V) and organovanadium(V) sulphur-containing oxides, preparation of (J. Kulpe, E. Herdtweck, G. Weichelbaumer, W.A. Herrmann), (348) 369

Rhodium binuclear compounds bridged by bi-functional 2-mercaptopthiazolinolate anion (M. Cowie, T. Sielisch), (348) 241

2-Thienylsilanes, fragmentation under electron impact of (S. Rozite, I. Mažeika, A. Gaukhaman, N. Erchak, E. Lukevics), (348) 189

Tellurium

Diorganyldiaryloxytelluranes with intramolecular Te...N coordination bonds, synthesis and structure of (V.I. Minkin, A.A. Maksimenko, G.K. Mehrotra, A.G. Maslakov, O.E. Kompan, I.D. Sadekov, Yu.T. Struchkov, D.S. Yufit), (348) 63

Methylation of aromatics with Me_3S^+ , Me_3Se^+ and Me_3Te^+ in superacid media (K. Laali, H.Y. Chen, R.J. Gerzina), (348) 199

Telluroacrylamide complexes, formation from pentacarbonyl(diphenyltelluroketone)tungsten and inamines (H. Fischer, I. Pashalidis), (348) C1

Transition metal complexes containing "naked" tellurium and selenium bridging ligands, ^{125}Te and ^{77}Se NMR spectra of (W.A. Herrmann, H.-J. Kneuper), (348) 193

Tin

Bis(2-aminopyridinium)dimethyltetrachlorostannate(IV), formation by hydrolysis of dimethyltin dichloride and crystal structure of (G. Valle, A. Sánchez González, R. Ettore, G. Plazzogna), (348) 49

t-Butyl(trialkylstannylyl)(trimethylgermyl)acetates synthesis and application of their anions to the Peterson-type reaction of (N. Kanemoto, Y. Sato, S. Inoue), (348) 25

Cyclopentadienylation of pentafulvenes with stannyl- and nitrosyl-carbonylvanadium complexes (D. Rehder, D. Wenke), (348) 205

Titanium

$[(\eta^5\text{-Me}_5\text{C}_5)_2\text{Ti}(\text{H}_2\text{O})_2]^{2+}$ and $[(\eta^5\text{-Me}_5\text{C}_5)\text{Ti}(\text{OH})(\text{H}_2\text{O})]^+$ containing salts, preparation and crystal structures of (U. Thewalt, B. Honold), (348) 291

Tungsten

Group 6 metal tricarbonyls with ligating α -diimine and triethyl phosphite, convenient synthesis and characterisation of (T.S.A. Hor, S.R.B. Rus), (348) 343

Phosphine-ligand stabilisation by P-complexation with pentacarbonyltungsten (F. Mercier, F. Mathey, C. Afion-Akpan, J.F. Nixon), (348) 361

Telluroacrylamide complexes, formation from pentacarbonyl(diphenyltelluroketone) tungsten and inamines (H. Fischer, I. Pashalidis), (348) C1

Transition metal complexes containing "naked" tellurium and selenium bridging ligands, ^{125}Te and ^{77}Se NMR spectra of (W.A. Herrmann, H.-J. Kneuper), (348) 193

Vanadium

Cyclopentadienylation of pentafulvenes with stannyl- and nitrosyl-carbonylvanadium complexes (D. Rehder, D. Wenke), (348) 205

Organorhenium(V) and organovanadium(V) sulphur-containing oxides, preparation of (J. Kulpe, E. Herdtweck, G. Weichselbaumer, W.A. Herrmann), (348) 369

Zinc

Organozinc derivatives of alkyl α -bromomethyl-acrylates, preparation and characterisation of (N. El Alami, C. Belaud, J. Villiéras), (348) 1

Zirconium

Transition metal complexes containing "naked" tellurium and selenium bridging ligands, ^{125}Te and ^{77}Se NMR spectra of (W.A. Herrmann, H.-J. Kneuper), (348) 193

Book reviews

Annual reports on NMR spectroscopy, Vol. 19; edited by G.A. Webb (A.G. Avent), (348) C15

Electrochemistry II. Topics in current chemistry, Vol. 143, edited by E. Steckhan (K.R. Seddon), (348) C44

Gmelin handbook of inorganic chemistry, 8th edit., S — sulfur-nitrogen compounds, Part 4: Compounds with sulfur of oxidation number IV (K.R. Seddon), (348) C16

One-dimensional organometallic materials—An analysis of electronic structure effects; by M.C. Böhm, Lecture Notes in chemistry, Vol. 45 (K.R. Seddon), (348) C43

Organometallic in organic synthesis; edited by A. de Meijere and H. tom Dieck (P.A. Chaloner), (348) C45

Phosphorus-31 NMR spectroscopy in stereochemical analysis. Methods in stereochemical analysis, Vol. 9; edited by J.G. Verkade and L.D. Quin (K.R. Seddon), (348) C42

Preparative chemistry using supported reagents; edited by P. Laszlo (P.A. Chaloner), (348) C34

The chemistry and biochemistry of *N*-substituted porphyrins; by D.K. Lavallee (K.R. Seddon), (348) C46

The chemistry of inorganic homo- and heterocycles, Vol. 1; edited by I. Haiduc and D.B. Sowerby (J.D. Smith). (348) C33