

Journal of Organometallic Chemistry, 373 (1989) C37–C42
 Elsevier Sequoia S.A., Lausanne – Printed in The Netherlands

JOURNAL OF ORGANOMETALLIC CHEMISTRY, VOL. 373 (1989)

SUBJECT INDEX

Aluminium

Tertiary amines with secondary doubly unsaturated groups, regiospecific synthesis of (D. Mesnard, L. Miginiac), (373) 1

Arsenic

Carbonyldinitrosylorganometallic arsine-iron and dicarbonylnitrosylorganometallic arsine-cobalt complexes, formation and spectral characterisation of (H. Schumann und K.H. Köhricht), (373) 307

Heterocyclic compounds containing a P=C or As=C bond, investigation by UV photoelectron spectroscopy of (L. Nyulászi, G. Csonka, J. Réffy, T. Veszprémi, J. Heinicke), (373) 49

3-Substituted benzazaphospholes and benzazarsoles, investigation by UV-photoelectron spectroscopy of (L. Nyulászi, G. Csonka, J. Réffy, T. Veszprémi, J. Heinicke), (373) 57

Chromium

Alkoxy- or alkylthio-substituted silylcarbene complexes, $(CO)_5MC(XEt)SiR_3$, (M = Cr, Mo, W; X = O, S) and ketene derivatives, $R_3Si(EtX)C=C=O$, synthesis of (J. Kron, U. Schubert), (373) 203

1,1'-Bis(diphenylphosphino)ferrocene, a bridging, chelating and unidentate ligand in the synthesis of $M_2(CO)_{10}(\mu\text{-P-P})$, $M(CO)_4(\eta^2\text{-P-P})$ and $M(CO)_5(\eta^1\text{-P-P})$ (M = Cr, Mo, W; P-P = $Fe(C_5H_4PPh_2)_2$) (T.S.A. Hor, L.-T. Phang), (373) 319

Pentacarbonylchromium fragment, linkage to a $(\mu\text{-}\eta^2\text{-P}_2)Cr_2$ core of; crystal structure of $Cp_2Cr_2(CO)_4(\mu\text{-}\eta^2\text{-P}_2)[Cr(CO)_5]$ (L.Y. Goh, R.C.S. Wong, T.C.W. Mak), (373) 71

Cobalt

Carbonyldinitrosylorganometallic arsine-iron and dicarbonylnitrosylorganometallic arsine-cobalt complexes, formation and spectral characterisation of (H. Schumann und K.H. Köhricht), (373) 307

Cobaltacyclopentadiene complexes, reactions with organic azides directed toward synthesis of highly substituted pyrroles of (P. Hong, H. Yamazaki), (373) 133

Erbium

2,2'-Bis(diphenylphosphino)biphenyl, synthesis of (T.K. Miyamoto, Y. Matsuura, K. Okude, H. Ichida, Y. Sasaki), (373) C8

Germanium

Carbonyldinitrosylorganometallic arsine-iron and dicarbonylnitrosylorganometallic arsine-cobalt complexes, formation and spectral characterisation of (H. Schumann und K.H. Köhricht), (373) 307

Dimethylgermylenes, thermal and photolytical synthesis and reactions with alkynyl, propargyl and allenyl halides of (G. Billeb, H. Brauer, S. Maslov, W.P. Neumann), (373) 11

1,3-Di-t-butylcyclopentadienyl as π -ligand in complex chemistry of germanium, tin and lead (P. Jutzi, R. Dickbreder), (373) 301

Monogermane gas phase ion-molecule reactions with carbon oxides and ethylene; formation of Ge-C bonds (P. Benzi, L. Operti, G.A. Vaglio, P. Volpe, M. Speranza, R. Gabrielli), (373) 289

Trimethyl-group 14 cations, distinguishing 1,2-cyclopentanediol isomers via gas-phase reactions with (W.J. Meyerhoffer, M.M. Bursey), (373) 143

Iridium

Diolefin- and carbonyl-rhodium(I) and -iridium(I) complexes with phosphine sulphide ligands; crystal structure of $[\text{Rh}(\text{COD})(\text{Et}_2\text{P}(\text{S}(\text{S})\text{PEt}_2))\text{ClO}_4$ (C. Claver, A. Ruiz, A.M. Masdeu, J. Viñas, T. Saballs, F.J. Lahoz, F.J. Plou), (373) 269

Iron

$1,1'$ -Bis[1-carboxymethyl]thioalkyl]ferrocenes and $1,1'$ -bis[1-(carboxymethyl)thio-1-phenylmethyl]ferrocene, synthesis and characterization of (D. Scutaru, I. Mazilu, L. Tataru, T. Lixandru, C. Simionescu), (373) 245

$1,1'$ -Bis(diphenylphosphino)ferrocene, a bridging, chelating and unidentate ligand in the synthesis of $\text{M}_2(\text{CO})_{10}(\mu\text{-P-P})$, $\text{M}(\text{CO})_4(\eta^2\text{-P-P})$ and $\text{M}(\text{CO})_5(\eta^1\text{-P-P})$ ($\text{M} = \text{Cr, Mo, W}$; $\text{P-P} = \text{Fe}(\text{C}_5\text{H}_4\text{PPh}_2)_2$) (T.S.A. Hor, L.-T. Phang), (373) 319

Carbonyldinitrosylorganometallic arsine-iron and dicarbonylnitrosylorganometallic arsine-cobalt complexes, formation and spectral characterisation of (H. Schumann und K.H. Köhricht), (373) 307

Differa(μ -alkylidene)carbene complex, C-C bond formation with isocyanate RNCX ($\text{R} = \text{Et, Ph}; \text{X} = \text{O, S}$) of; X-ray structure of $[\text{Fe}_2(\text{CO})_6\{\mu, \eta^2\text{-MeCC(NEt)}_2\text{CONR}\}]$, (V. Crocq, J.-C. Daran, Y. Jeannin), (373) 85

1,3-Diselena- and 1,3-dithia-[3]ferrocenophane derivatives, Mössbauer and electrochemical studies on (A.G. Osborne, R.E. Hollands, A.G. Nagy), (373) 229

$[\text{FeC}_5\text{H}_5(\text{CO})_2\{\text{M}(\text{X})\text{R}_2\}]$ ($\text{R} = \text{CHSiMe}_3)_2$, $\text{M} = \text{Sn, Pb}; \text{X} = \text{H, F, Cl, Br, I}$, synthesis and characterisation of (M.F. Lappert, M.J. McGeary, R.V. Parish), (373) 107

(Methyl 2-butenoate)iron complexes, synthesis, characterization and structure of (M. Cheng, Y.-J. Wu, S.-L. Wang, R. Liu), (373) 119

$1,1',3,3'$ -Tetrakis(trimethylsilyl)ferrocene, crystal structure and dynamic solution behaviour of (J. Okuda, E. Herdtweck), (373) 99

Tricarbonyl(η^4 -heptafulvene)iron complexes, substituent effects on the 1,3-haptotropic rearrangement of (Z. Goldschmidt, D. Hezroni, H.E. Gottlieb, S. Antebi), (373) 235

Lead

1,3-Di-t-butylcyclopentadienyl as π -ligand in complex chemistry of germanium, tin and lead (P. Jutzi, R. Dickbreder), (373) 301

$[\text{FeC}_5\text{H}_5(\text{CO})_2\{\text{M}(\text{X})\text{R}_2\}]$ ($\text{R} = \text{CHSiMe}_3)_2$, $\text{M} = \text{Sn, Pb}; \text{X} = \text{H, F, Cl, Br, I}$, synthesis and characterisation of (M.F. Lappert, M.J. McGeary, R.V. Parish), (373) 107

Lithium

Tertiary amines with secondary doubly unsaturated groups, regiospecific synthesis of (D. Mesnard, L. Miginiac), (373) 1

Magnesium

Tertiary amines with secondary doubly unsaturated groups, regiospecific synthesis of (D. Mesnard, L. Miginiac), (373) 1

Metallocenes

$1,1'$ -Bis[1-carboxymethyl]thioalkyl]ferrocenes and $1,1'$ -bis[1-(carboxymethyl)thio-1-phenylmethyl]ferrocene, synthesis and characterization of (D. Scutaru, I. Mazilu, L. Tataru, T. Lixandru, C. Simionescu), (373) 245

$1,1'$ -Bis(diphenylphosphino)ferrocene, a bridging, chelating and unidentate ligand in the synthesis of $\text{M}_2(\text{CO})_{10}(\mu\text{-P-P})$, $\text{M}(\text{CO})_4(\eta^2\text{-P-P})$ and $\text{M}(\text{CO})_5(\eta^1\text{-P-P})$ ($\text{M} = \text{Cr, Mo, W}$; $\text{P-P} = \text{Fe}(\text{C}_5\text{H}_4\text{PPh}_2)_2$) (T.S.A. Hor, L.-T. Phang), (373) 319

1,3-Diselena- and 1,3-dithia-[3]ferrocenophane derivatives, Mössbauer and electrochemical studies on (A.G. Osborne, R.E. Hollands, A.G. Nagy), (373) 229

$[\text{Ni}(\eta^5\text{-P}_3\text{C}_2\text{R}_2)(\eta^3\text{-P}_2\text{C}_3\text{R}_3)]$ ($\text{R} = \text{Bu}^1$), synthesis, and crystal and molecular structure of (R. Bartsch, P.B. Hitchcock, J.F. Nixon), (373) C17

$1,1',3,3'$ -Tetrakis(trimethylsilyl)ferrocene, crystal structure and dynamic solution behaviour of (J. Okuda, E. Herdtweck), (373) 99

Zirconocene and hafnocene dihydrides $[(\eta^5\text{-RC}_5\text{H}_4)_2\text{M}(\text{H})(\mu\text{-H})]_2$ ($\text{M} = \text{Zr}, \text{Hf}$), reactions with sulphur, selenium and tellurium of (G. Tainturier, M. Fahim, B. Gautheron), (373) 193

Molybdenum

Alkoxy- or alkylthio-substituted silylcarbene complexes, $(\text{CO})_5\text{MC}(\text{XEt})\text{SiR}_3$ ($\text{M} = \text{Cr}, \text{Mo}, \text{W}; \text{X} = \text{O}, \text{S}$) and ketene derivatives, $\text{R}_3\text{Si}(\text{EtX})\text{C}=\text{C=O}$, synthesis of (J. Kron, U. Schubert), (373) 203

1,1'-Bis(diphenylphosphino)ferrocene, a bridging, chelating and unidentate ligand in the synthesis of $\text{M}_2(\text{CO})_{10}(\mu\text{-P-P})$, $\text{M}(\text{CO})_4(\eta^2\text{-P-P})$ and $\text{M}(\text{CO})_5(\eta^1\text{-P-P})$ ($\text{M} = \text{Cr}, \text{Mo}, \text{W}; \text{P-P} = \text{Fe}(\text{C}_5\text{H}_4\text{PPh}_2)_2$) (T.S.A. Hor, L.-T. Phang), (373) 319

Cyclopentadienyl-substituted isonitril-complexes of molybdenum(IV); synthesis and structure of (A.C. Filippou, W. Grünleitner, E. Herdtweck), (373) 325

Molybdenum complex as catalyst for C=C bond formation one-pot reaction (X. Lu, H. Fang, Z. Ni), (373) 77

Transition metal oxide clusters as catalysts in oxidation of cyclohexene with t-butyl hydroperoxide (C. Zhang, Y. Ozawa, Y. Hayashi, K. Isobe), (373) C21

Nickel

1,1-Difluoroethenenickel-ligand complexes, preparation and structure of (H. Hoberg, D. Guhl), (373) C27

$[\text{Ni}(\eta^5\text{-P}_3\text{C}_2\text{R}_2)(\eta^3\text{-P}_2\text{C}_3\text{R}_3)]$ ($\text{R} = \text{Bu}^t$), synthesis, and crystal and molecular structure of (R. Bartsch, P.B. Hitchcock, J.F. Nixon), (373) C17

Osmium

$[\text{HOs}_3(\text{CO})_{10}(\mu\text{-TeC}_6\text{H}_4\text{OMe})]$, synthesis, characterisation and conversion into $[\text{Os}_3\text{Te}_2(\text{CO})_9]$ of (P. Mathur, D. Chakrabarty), (373) 129

$\text{Os}_3\text{Pt}(\mu\text{-H})_2(\text{CO})_{10}(\text{PCy}_3)$, reaction with 1,1,3,3-tetramethyl-2-thiocarbonylcyclohexane of; X-ray crystal structure of $\text{Os}_3\text{Pt}(\mu_3\text{-S})_2(\text{CO})_9(\text{PCy}_3)$ ($\eta\text{-C=C}_6\text{H}_6\text{Me}_4$) (P. Ewing, L.J. Farrugia), (373) 259

Palladium

Bis-silyl-palladium complexes, $(\text{R}_3'\text{P})_2\text{Pd}(\text{SiR}_3)_2$, influence of substituents at silicon on stability and decomposition products of (U. Schubert, C. Müller), (373) 165

Photogenerated $[\text{Pd}(\text{CNMe})_3]^+$ radicals, activation of unsaturated alkyl chlorides by; formation of $\eta^3\text{-allyl}$ and "oxaallyl" palladium complexes (F.R. Lemke, C.P. Kubiak), (373) 391

Trimethylplatinum(IV) mixed halide methylthio bridged tetramers; syntheses and fluxional properties of (E.W. Abel, K.G. Orrell, D. Stephenson), (373) 401

Phosphorus

2,2'-Bis(diphenylphosphino)biphenyl, synthesis of (T.K. Miyamoto, Y. Matsuura, K. Okude, H. Ichida, Y. Sasaki), (373) C8

1,1'-Bis(diphenylphosphino)ferrocene, a bridging, chelating and unidentate ligand in the synthesis of $\text{M}_2(\text{CO})_{10}(\mu\text{-P-P})$, $\text{M}(\text{CO})_4(\eta^2\text{-P-P})$ and $\text{M}(\text{CO})_5(\eta^1\text{-P-P})$ ($\text{M} = \text{Cr}, \text{Mo}, \text{W}; \text{P-P} = \text{Fe}(\text{C}_5\text{H}_4\text{PPh}_2)_2$) (T.S.A. Hor, L.-T. Phang), (373) 319

Bis-silyl-palladium complexes, $(\text{R}_3'\text{P})_2\text{Pd}(\text{SiR}_3)_2$, influence of substituents at silicon on stability and decomposition products of (U. Schubert, C. Müller), (373) 165

1,1-Difluoroethenenickel-ligand complexes, preparation and structure of (H. Hoberg, D. Guhl), (373) C27

Diolefins- and carbonyl-rhodium(I) and -iridium(I) complexes with phosphine sulphide ligands; crystal structure of $[\text{Rh}(\text{COD})(\text{Et}_2\text{P}(\text{S})(\text{S})\text{PEt}_2)]\text{ClO}_4$ (C. Claver, A. Ruiz, A.M. Masdeu, J. Viñas, T. Saballs, F.J. Lahoz, F.J. Plou), (373) 269

Heterocyclic compounds containing a $\text{P}=\text{C}$ or $\text{As}=\text{C}$ bond, investigation by UV photoelectron spectroscopy of (L. Nyulászi, G. Csonka, J. Réffy, T. Veszprémi, J. Heinicke), (373) 49

$[\text{Ni}(\eta^5\text{-P}_3\text{C}_2\text{R}_2)(\eta^3\text{-P}_2\text{C}_3\text{R}_3)]$ ($\text{R} = \text{Bu}^t$), synthesis, and crystal and molecular structure of (R. Bartsch, P.B. Hitchcock, J.F. Nixon), (373) C17

$\text{Rh}_2(\text{O}_2\text{CCH}_3)_3[(\text{C}_6\text{H}_4)\text{PPh}_2](\text{HO}_2\text{CCH}_3)_2$, synthesis, crystal structure and reactivity of (P. Lahuerta, J. Payá, E. Peris, M.A. Pellinghelli, A. Tiripicchio), (373) C5

[RhRu₃(μ -H)₂(μ -CO)(CO)₉(η^5 -C₅H₅)] cleavage with elimination of benzene on reaction with (Ph₂PCH₂)₃CMe of; structural characterisation and non-rigidity of [Ru₃(μ -H){ μ -PPhCH₂(Ph₂PCH₂)₂CMe}(CO)₈] (J.-L. Le Grand, W.E. Lindsell, K.J. McCullough), (373) C1
3-Substituted benzazaphospholes and benzazarsoles, investigation by UV-photoelectron spectroscopy of (L. Nyulászi, G. Csonka, J. Réffy, T. Veszprémi, J. Heinicke), (373) 57

Platinum

Os₃Pt(μ -H)₂(CO)₁₀(PCy₃), reaction with 1,1,3,3-tetramethyl-2-thiocarbonylcyclohexane of; X-ray crystal structure of Os₃Pt(μ -S)₂(CO)₉(PCy₃) (η -C=C₆H₆Me₄) (P. Ewing, I.J. Farrugia), (373) 259

Rhodium

N-Allylamides of organic acids, rhodium-catalysed coupling of (G.P. Chiusoli, M. Costa, F. Pivetti), (373) 385

Chiral hydrosilanerhodium-(+)- and -(−)-diop complexes as catalysts for asymmetric hydrogenation of steroid ketones (G. Göndös, L. Gera, M. Bartók, J.C. Orr), (373) 365

Diolefins- and carbonyl-rhodium(I) and -iridium(I) complexes with phosphine sulphide ligands; crystal structure of [Rh(COD)(Et₂P(S)(S)PEt₂)]ClO₄ (C. Claver, A. Ruiz, A.M. Masdeu, J. Viñas, T. Saballs, F.J. Lahoz, F.J. Plou), (373) 269

Photogenerated [Pd(CNMe)₃]⁺⁺ radicals, activation of unsaturated alkyl chlorides by; formation of η^1 -allyl and “oxaallyl” palladium complexes (F.R. Lemke, C.P. Kubiak), (373) 391

Rhodium-catalysed C–C coupling reactions of N-allylamides of organic acids (G.P. Chiusoli, M. Costa, F. Pivetti), (373) 377

[RhRu₃(μ -H)₂(μ -CO)(CO)₉(η^5 -C₅H₅)] cleavage with elimination of benzene on reaction with (Ph₂PCH₂)₃CMe of; structural characterisation and non-rigidity of [Ru₃(μ -H){ μ -PPhCH₂(Ph₂PCH₂)₂CMe}(CO)₈] (J.-L. Le Grand, W.E. Lindsell, K.J. McCullough), (373) C1

Transition metal oxide clusters as catalysts in oxidation of cyclohexene with t-butyl hydroperoxide (C. Zhang, Y. Ozawa, Y. Hayashi, K. Isobe), (373) C21

Ruthenium

N-Alkylation of amines, as homogeneous catalysis system for synthesis of cyclic mono- and di-amines (G. Bitsis, E. Schleifer, F. Antoni, G. Jenner), (373) 343

Rh₂(O₂CCH₃)₃[(C₆H₄)PPh₂](HO₂CCH₃)₂, synthesis, crystal structure and reactivity of (P. Lahuerta, J. Payá, E. Peris, M.A. Pellinghelli, A. Tiripicchio), (373) C5

[RhRu₃(μ -H)₂(μ -CO)(CO)₉(η^5 -C₅H₅)] cleavage with elimination of benzene on reaction with (Ph₂PCH₂)₃CMe of; structural characterisation and non-rigidity of [Ru₃(μ -H){ μ -PPhCH₂(Ph₂PCH₂)₂CMe}(CO)₈] (J.-L. Le Grand, W.E. Lindsell, K.J. McCullough), (373) C1

[Ru(CO)H(MeCN)₂(PPh₃)₂]A (A = ClO₄, PF₆), reactions with alkynes of; crystal structure of [Ru(CO)(MeOOCC=CHCOOMe)(MeCN)₂(PPh₃)₂]ClO₄ (J. López, A. Romero, A. Santos, A. Vegas, A.M. Echavarren, P. Noheda), (373) 249

Tetrafluorodisilacyclobutene, cycloaddition reactions with 1,3-butadienes mediated by Ru₃(CO)₁₂ of (C.Y. Huang, C.S. Liu), (373) 353

Selenium

1,3-Diselena- and 1,3-dithia-[3]ferrocenophane derivatives, Mössbauer and electrochemical studies on (A.G. Osborne, R.E. Hollands, A.G. Nagy), (373) 229

Zirconocene and hafnocene dihydrides [(η^5 -RC₅H₄)₂M(H)(μ -H)]₂ (M = Zr, Hf), reactions with sulphur, selenium and tellurium of (G. Tainturier, M. Fahim, B. Gautheron), (373) 193

Silicon

Alkoxy- or alkylthio-substituted silylcarbene complexes, (CO)₅MC(XEt)SiR₃ (M = Cr, Mo, W; X = O, S) and ketene derivatives, R₃Si(EtX)C=C=O, synthesis of (J. Kron, U. Schubert), (373) 203

2-Alkyl-2,3,6,7-tetrahydroxepines and -oxocins, synthesis from allylsilanes of (B. Guyot, J. Pernet, L. Migniniac), (373) 279

Aryl-containing silsesquioxanes, polyhedral oligosilsesquioxanes via catalytic hydrogenation of (F.J. Feher, T.A. Budzichowski), (373) 153

- Bis-silyl-palladium complexes, $(R_3'P)_2Pd(SiR_3)_2$, influence of substituents at silicon on stability and decomposition products of (U. Schubert, C. Müller), (373) 165
- Carbonyldinitrosylorganometallic arsine-iron and dicarbonylnitrosylorganometallic arsine-cobalt complexes, formation and spectral characterisation of (H. Schumann und K.H. Köhricht), (373) 307
- Chiral hydrosilanerhodium-(+)- and -(−)-diop complexes as catalysts for asymmetric hydrogenation of steroid ketones (G. Göndös, L. Gera, M. Bartók, J.C. Orr), (373) 365
- $[FeC_5H_5(CO)_2(M(X)R_2)]$ ($R = CHSiMe_3$)₂, $M = Sn, Pb$; $X = H, F, Cl, Br, I$, synthesis and characterisation of (M.F. Lappert, M.J. McGeary, R.V. Parish), (373) 107
- Tetrafluorodilacyclobutene, cycloaddition reactions with 1,3-butadienes mediated by $Ru_3(CO)_{12}$ of (C.Y. Huang, C.S. Liu), (373) 353
- 1,1',3,3'-Tetrakis(trimethylsilyl)ferrocene, crystal structure and dynamic solution behaviour of (J. Okuda, E. Herdtweck), (373) 99
- Trimethyl-group 14 cations, distinguishing 1,2-cyclopentanediol isomers via gas-phase reactions with (W.J. Meyerhoffer, M.M. Bursey), (373) 143

Sulphur

- 1,1'-Bis[1-carboxymethyl]thioalkyl]ferrocenes and 1,1'-bis[1-(carboxymethyl)thio-1-phenylmethyl]ferrocene, synthesis and characterization of (D. Scutaru, I. Mazilu, L. Tataru, T. Lixandru, C. Simionescu), (373) 245
- Diolefin- and carbonyl-rhodium(I) and -iridium(I) complexes with phosphine sulphide ligands; crystal structure of $[Rh(COD)(Et_2P(S)(S)PEt_2)]ClO_4$ (C. Claver, A. Ruiz, A.M. Masdeu, J. Viñas, T. Saballs, F.J. Lahoz, F.J. Plou), (373) 269
- 1,3-Diselena- and 1,3-dithia-[3]ferrocenophane derivatives, Mössbauer and electrochemical studies on (A.G. Osborne, R.E. Hollands, A.G. Nagy), (373) 229
- Ethanol adduct of *N*-triphenylstannyl-1,2-benzisothiazol-3(2*H*)-one 1,1-dioxide, crystal structure of (S.W. Ng, C. Wei, V.T. Kumar Das, T.C.W. Mak), (373) 21
- $Os_3Pt(\mu-H)_2(CO)_{10}(PCy_3)$, reaction with 1,1,3,3-tetramethyl-2-thiocarbonylcyclohexane of; X-ray crystal structure of $Os_3Pt(\mu_3-S)_2(CO)_9(PCy_3)$ (η -C=C₆H₆Me₄) (P. Ewing, L.J. Farrugia), (373) 259
- Trimethylplatinum(IV) mixed halide methylthio bridged tetramers; syntheses and fluxional properties of (E.W. Abel, K.G. Orrell, D. Stephenson), (373) 401
- Zirconocene and hafnocene dihydrides $[(\eta^5-RC_5H_4)_2M(H)(\mu-H)]_2$ ($M = Zr, Hf$), reactions with sulphur, selenium and tellurium of (G. Tainturier, M. Fahim, B. Gautheron), (373) 193

Tellurium

- $[HOs_3(CO)_{10}(\mu-TeC_6H_4OMe)]$, synthesis, characterisation and conversion into $[Os_3Te_2(CO)_9]$ of (P. Mathur, D. Chakrabarty), (373) 129
- Zirconocene and hafnocene dihydrides $[(\eta^5-RC_5H_4)_2M(H)(\mu-H)]_2$ ($M = Zr, Hf$), reactions with sulphur, selenium and tellurium of (G. Tainturier, M. Fahim, B. Gautheron), (373) 193

Tin

- Carbonyldinitrosylorganometallic arsine-iron and dicarbonylnitrosylorganometallic arsine-cobalt complexes, formation and spectral characterisation of (H. Schumann und K.H. Köhricht), (373) 307
- $[(i-C_3H_8Sn)_{12}O_{14}(OH)_6]Cl_2 \cdot L$ ($L = 3H_2O, 2DMF$ and $4H_2O \cdot 4DMPU$), isolation and X-ray structural analysis of (H. Puff, H. Reuter), (373) 173
- Diorganotin-nitrogen cyclic compounds, structure of (H. Puff, D. Hänsgen, N. Beckermann, A. Roloff, W. Schuh), (373) 37
- 1,3-Di-*t*-butylcyclopentadienyl as π -ligand in complex chemistry of germanium, tin and lead (P. Jutzi, R. Dickbreder), (373) 301
- Ethanol adduct of *N*-triphenylstannyl-1,2-benzisothiazol-3(2*H*)-one 1,1-dioxide, crystal structure of (S.W. Ng, C. Wei, V.T. Kumar Das, T.C.W. Mak), (373) 21
- $[FeC_5H_5(CO)_2(M(X)R_2)]$ ($R = CHSiMe_3$)₂, $M = Sn, Pb$; $X = H, F, Cl, Br, I$, synthesis and characterisation of (M.F. Lappert, M.J. McGeary, R.V. Parish), (373) 107
- Organotin and nitrotin derivatives, complex formation from (T.A.K. Al-Allaf, U. Kobs, W.P. Neumann), (373) 29
- Trimethyl-group 14 cations, distinguishing 1,2-cyclopentanediol isomers via gas-phase reactions with (W.J. Meyerhoffer, M.M. Bursey), (373) 143

Titanium

Di- μ -*m*-diethylphthalateoctachlorodititanium(IV), crystal structure and properties of (J. Utko, P. Sobota, T. Lis), (373) 63

Tetrahydrofurfurylcyclopentadienyltitanium trichloride and its derivatives, synthesis and crystal structure of (Y. Qian, W. Chen, G. Li, B. Li, J. Xianglin), (373) 185

Tungsten

Alkoxy- or alkylthio-substituted silylcarbene complexes, $(CO)_5MC(XEt)SiR_3$ ($M = Cr, Mo, W; X = O, S$) and ketene derivatives, $R_3Si(EtX)C=C=O$, synthesis of (J. Kron, U. Schubert), (373) 203

1,1'-Bis(diphenylphosphino)ferrocene, a bridging, chelating and unidentate ligand in the synthesis of $M_2(CO)_{10}(\mu-P-P)$, $M(CO)_4(\eta^2-P-P)$ and $M(CO)_5(\eta^1-P-P)$ ($M = Cr, Mo, W; P-P = Fe(C_5H_4PPh_2)_2$) (T.S.A. Hor, L.-T. Phang), (373) 319

Oxidative decarbonylation of tungsten hexacarbonyl, thermogravimetric and quantitative studies of (T.S.A. Hor, H.S.O. Chan, Y.-P. Leong, M. Tan), (373) 221

Vanadium

Transition metal oxide clusters as catalysts in oxidation of cyclohexene with t-butyl hydroperoxide (C. Zhang, Y. Ozawa, Y. Hayashi, K. Isobe), (373) C21

Zinc

Tertiary amines with secondary doubly unsaturated groups, regiospecific synthesis of (D. Mesnard, L. Miginiac), (373) 1

Zirconium

Zirconocene and hafnocene dihydrides $[(\eta^5-RC_5H_4)_2M(H)(\mu-H)]_2$ ($M = Zr, Hf$), reactions with sulphur, selenium and tellurium of (G. Tainturier, M. Fahim, B. Gautheron), (373) 193

Book reviews

Advances in physical organic chemistry, Volume 24; edited by D. Bethell (C. Eaborn), (373) C32

Correlation analysis of chemical data; by O. Exner (C. Eaborn), (373) C32

Gmelin handbook of inorganic chemistry, Be — organoberyllium compounds. Part 1 (C. Eaborn), (373) C33

Gmelin handbook of inorganic chemistry, 8th edition, Th — thorium. Supplement Volume C7: Compounds with carbon: carbonates, thiocyanates, alkoxides, carboxylates (K.R. Seddon), (373) C13

Gmelin handbook of inorganic chemistry, 8th edition, Th — thorium, Supplement Volume D1: Properties of thorium ions in solutions (K.R. Seddon), (373) C14

Inorganic and organometallic polymers; edited by M. Zeldin (J.D. Smith), (373) C31