

JOURNAL OF ORGANOMETALLIC CHEMISTRY, VOL. 376 (1989)

SUBJECT INDEX

Aluminium

1-Aminoalkanephosphonic acids, addition of diethyl phosphite to *N*-diisobutylaluminio-aldimines (Z.H. Kudzin, M.W. Majchrzak), (376) 245

Antimony

Antimony-iron mixed carbonyl clusters: $[R_4N][SbFe_4(CO)_{16}]$ (R = Me, Et) and $[Et_4N]_2[Sb_2Fe_6(CO)_{20}]$, synthesis and structures of (S. Luo, K.H. Whitmire), (376) 297

Arsenic

η^3 -Phosphino-, -arsino- and -thioketen complexes of tungsten, synthesis of (M. Wolfgruber, C.M. Stegmair, F.R. Kreissl), (376) 45

Tetraarsacyclobutadiene as a complex ligand (O.J. Scherer, J. Vondung, G. Wolmershäuser), (376) C35

Boron

[Diphenylboratobis(η^5 -cyclopentadienyl, η^6 -phenylruthenium(II))⁺ cation, formation mechanism of (T. Wilczewski), (376) 385

Chromium

(Benzyl crotyl ether)chromium complexes, [2,3]-Wittig rearrangement of (M. Uemura, H. Nishimura, Y. Hayashi), (376) C3

2,2-Bis(diphenylphosphinomethyl)-1-phenylthiopropene and its group 6 complexes, synthesis of (S.-T. Liu, H.-E. Wang, M.-C. Cheng, S.-M. Peng), (376) 333

$\{\eta^6$ -1,4-(CH₃SO₃)₂C₆H_{4}\}Cr(CO)₃, synthesis, characterization, and reactivity of (M.E. Wright), (376) 353}

Halo/*n*-alkyl mixed chromium(III) compound, synthesis, structure, and reactivity of Cr(*n*-Bu)₂Cl-[(Me₂PCH₂)₃CMe] (E.G. Thaler, K. Foltling, J.C. Huffman, K.G. Caulton), (376) 343

Cobalt

Allylperoxycobalt(III) tetraphenylporphyrin, formation and structure of (W. Mikolajski, G. Baum, W. Massa, R.W. Hoffmann), (376) 397

Binuclear cobalt carbonyl complex with mixed valence, Co⁰Co^I(μ -Ph₂Ppy)₂(μ -CO)(CO)Cl (Ph₂Ppy = diphenylphosphinopyridine), synthesis and molecular structure of (Z.-Z. Zhang, H.-K. Wang, Z. Xi, X.-K. Yao, R.-J. Wang), (376) 123

Carbonylcobalt complexes of ethynylhydrogenosilanes, formation and reactions of (R.J.P. Corriu, J.J.E. Moreau, H. Praet), (376) C39

(C₅H₅Co)₃(μ_3 - η^2 : η^2 : η^2 -benzene), electronic structure of (H. Wadepohl, L. Zhu), (376) 115

Copper

Group 11 trifluoromethyl derivatives, formation by reaction of Cd(CF₃)₂·glyme with representative Au, Ag and Cu complexes: isolation of Au(CF₃)₃(PMe₃), Au(CF₃)₃(PEt₃), AuI(CF₃)₂(PMe₃), AuCF₃(PMe₃), AuCF₃(PEt₃) and AgCF₃(PMe₃); observation of CuCF₃(PMe₃), (H.K. Nair, J.A. Morrison), (376) 149

Germanium

- Lithium bis(trimethylgermyl)amide, synthesis and structure of (M. Rannenber, H.-D. Hausen, J. Weidlein), (376) C27
- 3-Organyl-silyl and -germyl propynals and their carbon analogues, aldol-type condensation of methyl diazoacetate with (O.I. Margorskaya, A.S. Medvedeva, M.M. Demina, I.D. Kalikhman, M.G. Voronkov), (376) 31
- Palladium-catalysed reduction of acyl chlorides with tributylgermanium hydride (L. Geng, X. Lu), (376) 41

Gold

- Group 11 trifluoromethyl derivatives, formation by reaction of $\text{Cd}(\text{CF}_3)_2 \cdot \text{glyme}$ with representative Au, Ag and Cu complexes: isolation of $\text{Au}(\text{CF}_3)_3(\text{PMe}_3)$, $\text{Au}(\text{CF}_3)_3(\text{PEt}_3)$, $\text{AuI}(\text{CF}_3)_2(\text{PMe}_3)$, $\text{AuCF}_3(\text{PMe}_3)$, $\text{AuCF}_3(\text{PEt}_3)$ and $\text{AgCF}_3(\text{PMe}_3)$; observation of $\text{CuCF}_3(\text{PMe}_3)$, (H.K. Nair, J.A. Morrison), (376) 149

Hafnium

- Chalcogen-containing metallocenic compounds with elemental chalcogens, thermal stability and reaction of (G. Tainturier, M. Fahim, G. Trouvé-Bellan, B. Gautheron), (376) 321

Iridium

- Carbon dioxide in the presence of $\text{RhCl}(\text{CO})(\text{PPh}_3)_2$ and $\text{IrCl}(\text{CO})(\text{PPh}_3)_2$, electrochemical reduction of (A. Szymaszek, F.P. Pruchnik), (376) 133

Iron

- Antimony-iron mixed carbonyl clusters: $[\text{R}_4\text{N}][\text{SbFe}_4(\text{CO})_{16}]$ (R = Me, Et) and $[\text{Et}_4\text{N}]_2[\text{Sb}_2\text{Fe}_6(\text{CO})_{20}]$, synthesis and structures of (S. Luo, K.H. Whitmire), (376) 297
- $\{(\text{C}_5\text{H}_5)\text{Fe}(\eta^6\text{-C}_8\text{H}_8)\}\text{PF}_6$, synthesis and crystal structure of (J. Heck, W. Massa), (376) C15
- Ferrocenes derived from isodicyclopentadiene and tricyclo[5.2.1.0^{2,6}]deca-2,5,8-triene (V. Bhide, P. Rinaldi, M.F. Farone), (376) 91
- Lipophilic macrocyclic host molecules containing multiple ferrocenyl redox-active centres (P.D. Beer, A.C. Smythe, E.L. Tite, A. Ibbotson), (376) C11
- Nitrosylcarbonyliron complexes, catalytic alkylations of allylic carbonates under argon in the presence of (J.-L. Roustan, M. Abedini, H.H. Baer), (376) C20
- Phenyl-substituted cyclobutane and cyclopropane derivatives, photolysis and thermolysis of (R.L. Trace, W.M. Jones), (376) 103
- Sulphur-bridged trinuclear carbonylalkynyliron clusters, preparation, properties and structure of (Th. Fassler, G. Huttner), (376) 367

Lithium

- Complex bases from organolithium compounds and various sodium alkoxides, properties of (L. Lochmann), (376) 1
- Heterobimetallic bridged alkynide complex, $(\text{C}_5\text{Me}_5)\text{Y}(\mu\text{-C}\equiv\text{CCMe}_3)_2\text{Li}(\text{THF})$, synthesis and X-ray structure of (W.J. Evans, D.K. Drummond, T.P. Hanusa, J.M. Olofson), (376) 311
- Lithium bis(trimethylgermyl)amide, synthesis and structure of (M. Rannenber, H.-D. Hausen, J. Weidlein), (376) C27

Manganese

- Carbonyl dimers with mixed bridges $[(\text{CO})_4\text{M}(\overline{\text{H}})\overline{\text{M}}(\text{L})(\text{CO})_4]_n$ ($n = 2 - , 0$), electronic structure of (B.J. Trzebiatowska, B. Nissen-Sobocińska, L. Natkaniec), (376) 67

Mercury

- Dihexyn-4-ylzinc, intramolecular interaction between a zinc atom and a carbon-carbon triple bond in (E. Oknińska, K.B. Starowiejski), (376) 7

Metalloenes

- Bis(pentamethylcyclopentadienyl)zinc and bis(tetramethylphenylcyclopentadienyl)zinc, solid state structures of (B. Fischer, P. Wijkens, J. Boersma, G. van Koten, W.J.J. Smeets, A.L. Spek, P.H.M. Budzelaar), (376) 223
- Chalcogen-containing metallocenic compounds with elemental chalcogens, thermal stability and reaction of (G. Tainturier, M. Fahim, G. Trouvé-Bellan, B. Gautheron), (376) 321
- [(C₅H₅)Fe(η⁶-C₈H₈)]PF₆, synthesis and crystal structure of (J. Heck, W. Massa), (376) C15
- Ferrocenes derived from isodicyclopentadiene and tricyclo[5.2.1.0^{2,6}]deca-2,5,8-triene (V. Bhide, P. Rinaldi, M.F. Farone), (376) 91
- Lipophilic macrocyclic host molecules containing multiple ferrocenyl redox-active centres (P.D. Beer, A.C. Smythe, E.L. Tite, A. Ibbotson), (376) C11

Molybdenum

- Aminomethyldiphenylphosphine-molybdenum complexes, synthesis and reactivity of; crystal structure of *cis*-Mo(CO)₄(Ph₂PCH₂NHC₆H₄Me-*p*)₂] (D.L. Davies, F.I. Healey, J. Howarth, D.R. Russell, L.J.S. Sherry), (376) C31
- 2,2-Bis(diphenylphosphinomethyl)-1-phenylthiopropane and its group 6 complexes, synthesis of (S.-T. Liu, H.-E. Wang, M.-C. Cheng, S.-M. Peng), (376) 333
- Carbonyl dimers with mixed bridges [(CO)₄M(H)(L)(CO)₄]_n (n = 2 - , 0), electronic structure of (B.J. Trzebiatowska, B. Nissen-Sobocińska, L. Natkaniec), (376) 67

Nickel

- Nickel(0) olefin complexes of methylenecyclopropane and cyclopropene, preparation and structural characterisation of (L.S. Isaeva, T.A. Peganova, P.V. Petrovskii, D.N. Kravtsov), (376) 141
- Silyl-nickel complexes prepared by η⁶-arene substitution in (η⁶-toluene)bis(trihalosilyl)nickel; preparation of L₃Ni(SiX₃)₂ and L₂Ni(SiX₃)₂ (X = Cl, F; L = phosphine, phosphites, and pyridines); X-ray structure of *cis*-(collidine)₂Ni(SiCl₃)₂ (S.-B. Choe, J.J. Schneider, K.J. Klabunde, L.J. Radonovich, T.A. Ballantine), (376) 419

Niobium

- Tetraarsacyclobutadiene as a complex ligand (O.J. Scherer, J. Vondung, G. Wolmershäuser), (376) C35

Osmium

- [Diphenylboratobis(η⁵-cyclopentadienyl, η⁶-phenylruthenium(II))⁺ cation, formation mechanism of (T. Wilczewski), (376) 385
- Os₃H₂(CO)₉(C₆H₄), reaction with diphenylacetylene of; formation and structural characterisation of Os₃(CO)₇(C₆H₄)[PhCC(H)Ph]₂ (H. Chen, B.F.G. Johnson, J. Lewis, P.R. Raithby), (376) C7

Palladium

- Palladium-catalysed reduction of acyl chlorides with tributylgermanium hydride (L. Geng, X. Lu), (376) 41

Phosphorus

- 1-Aminoalkanephosphonic acids, addition of diethyl phosphite to *N*-diisobutylaluminio-aldimines (Z.H. Kudzin, M.W. Majchrzak), (376) 245
- Aminomethyldiphenylphosphine-molybdenum complexes, synthesis and reactivity of; crystal structure of *cis*-Mo(CO)₄(Ph₂PCH₂NHC₆H₄Me-*p*)₂] (D.L. Davies, F.I. Healey, J. Howarth, D.R. Russell, L.J.S. Sherry), (376) C31
- 2,2-Bis(diphenylphosphinomethyl)-1-phenylthiopropane and its group 6 complexes, synthesis of (S.-T. Liu, H.-E. Wang, M.-C. Cheng, S.-M. Peng), (376) 333
- Bisphosphinodihalogenosilanes, preparation of 1,3-diphospha-2-silaallyl anions from (K. Hassler, F. Mitter, B. Reiter), (376) C1
- Carbon dioxide in the presence of RhCl(CO)(PPh₃)₂ and IrCl(CO)(PPh₃)₂, electrochemical reduction of (A. Szymaszek, F.P. Pruchnik), (376) 133

- Group 11 trifluoromethyl derivatives, formation by reaction of $\text{Cd}(\text{CF}_3)_2 \cdot \text{glyme}$ with representative Au, Ag and Cu complexes: isolation of $\text{Au}(\text{CF}_3)_3(\text{PMe}_3)$, $\text{Au}(\text{CF}_3)_3(\text{PEt}_3)$, $\text{AuI}(\text{CF}_3)_2(\text{PMe}_3)$, $\text{AuCF}_3(\text{PMe}_3)$, $\text{AuCF}_3(\text{PEt}_3)$ and $\text{AgCF}_3(\text{PMe}_3)$; observation of $\text{CuCF}_3(\text{PMe}_3)$. (H.K. Nair, J.A. Morrison), (376) 149
- Halo/*n*-alkyl mixed chromium(III) compound, synthesis, structure, and reactivity of $\text{Cr}(\text{n-Bu})_2\text{Cl}[(\text{Me}_2\text{PCH}_2)_3\text{CMe}]$ (E.G. Thaler, K. Foltig, J.C. Huffman, K.G. Caulton), (376) 343
- Organophosphorus and organosilicon derivatives of sterically hindered phenols (S.D. Pastor, E.T. Hessel), (376) 21
- η^3 -Phosphino-, -arsino- and -thioeten complexes of tungsten, synthesis of (M. Wolfgruber, C.M. Stegmair, F.R. Kreissl), (376) 45

Rhodium

- Carbon dioxide in the presence of $\text{RhCl}(\text{CO})(\text{PPh}_3)_2$ and $\text{IrCl}(\text{CO})(\text{PPh}_3)_2$, electrochemical reduction of (A. Szymaszek, F.P. Pruchnik), (376) 133
- $(\text{Me}_3\text{P})_3\text{Rh}(\text{Me})$, reaction with toluene to give $(\text{Me}_3\text{P})_3\text{Rh}(\text{Ar})$ (Ar = *o*-, *m*- and *p*-tolyl) of (R.T. Price, R.A. Andersen, E.L. Muetterties), (376) 407

Ruthenium

- μ -Amidocarbonylruthenium complexes, bridging in; crystal structure of $[\text{Ru}_3(\mu\text{-H})(\mu\text{-H}_3\text{N}_2\text{-4,5-Me}_2\text{-1,2-phenylene})]$ (J.A. Cabeza, V. Riera, M.A. Pellinghelli, A. Tiripicchio), (376) C23
- [Diphenylboratobis(η^5 -cyclopentadienyl, η^6 -phenylruthenium(II))]⁺ cation, formation mechanism of (T. Wilczewski), (376) 385

Samarium

- η^6 -*m*-Xylenesamariumtris(aluminum tetrachlorides), synthesis and molecular structure (B. Fan, Q. Shen, Y. Lin), (376) 61

Selenium

- Chalcogen-containing metallocenic compounds with elemental chalcogens, thermal stability and reaction of (G. Tainturier, M. Fahim, G. Trouvé-Bellan, B. Gautheron), (376) 321

Silicon

- Bisphosphinodihalogenosilanes, preparation of 1,3-diphospha-2-silaallyl anions from (K. Hassler, F. Mitter, B. Reiter), (376) C1
- Carbonylcobalt complexes of ethynylhydrogenosilanes, formation and reactions of (R.J.P. Corriu, J.J.E. Moreau, H. Praet), (376) C39
- 1,1-Dimethylsilabutadiene, gas phase reactions of (R.T. Conlin, M. Namavari), (376) 259
- Lithium bis(trimethylgermyl)amide, synthesis and structure of (M. Rannenber, H.-D. Hausen, J. Weidlein), (376) C27
- Methylchorosilanes, direct synthesis of (Review) (M.P. Clark), (376) 165
- Organophosphorus and organosilicon derivatives of sterically hindered phenols (S.D. Pastor, E.T. Hessel), (376) 21
- 3-Organyl-silyl and -germyl propynals and their carbon analogues, aldol-type condensation of methyl diazoacetate with (O.I. Margorskaya, A.S. Medvedeva, M.M. Demina, I.D. Kalikhman, M.G. Voronkov), (376) 31
- Si, Si'-substituted 1,2-bis(dimethylsilylmethyl)diacetylhydrazines, synthesis and chirality of (I.D. Kalikhman, B.A. Gostevskii, O.B. Bannikova, M.G. Voronkov, V.A. Pestunovich), (376) 249
- Silyl-nickel complexes prepared by η^6 -arene substitution in (η^6 -toluene)bis(trihalosilyl)nickel: preparation of $\text{L}_3\text{Ni}(\text{SiX}_3)_2$ and $\text{L}_2\text{Ni}(\text{SiX}_3)_2$ (X = Cl, F; L = phosphine, phosphites, and pyridines); X-ray structure of *cis*-(collidine)₂Ni(SiCl₃)₂ (S.-B. Choe, J.J. Schneider, K.J. Klabunde, L.J. Radonovich, T.A. Ballantine), (376) 419
- 1-Triethoxysilyl-1-alkenes, synthesis by cross-metathesis of vinyltriethoxysilane with 1-alkenes of (Z. Foltynowicz, B. Marciniec), (376) 15

Silver

Group 11 trifluoromethyl derivatives, formation by reaction of $\text{Cd}(\text{CF}_3)_2 \cdot \text{glyme}$ with representative Au, Ag and Cu complexes: isolation of $\text{Au}(\text{CF}_3)_3(\text{PMe}_3)$, $\text{Au}(\text{CF}_3)_3(\text{PEt}_3)$, $\text{Au}(\text{CF}_3)_2(\text{PMe}_3)$, $\text{AuCF}_3(\text{PMe}_3)$, $\text{AuCF}_3(\text{PEt}_3)$ and $\text{AgCF}_3(\text{PMe}_3)$; observation of $\text{CuCF}_3(\text{PMe}_3)$, (H.K. Nair, J.A. Morrison), (376) 149

Sodium

Complex bases from organolithium compounds and various sodium alkoxides, properties of (L. Lochmann), (376) 1

Sulphur

2,2-Bis(diphenylphosphinomethyl)-1-phenylthiopropene and its group 6 complexes, synthesis of (S.-T. Liu, H.-E. Wang, M.-C. Cheng, S.-M. Peng), (376) 333

Chalcogen-containing metallocenic compounds with elemental chalcogens, thermal stability and reaction of (G. Tainturier, M. Fahim, G. Trouvé-Bellan, B. Gautheron), (376) 321

$\{\eta^6\text{-1,4-(CH}_3\text{SO}_3)_2\text{C}_6\text{H}_4\}\text{Cr}(\text{CO})_3$, synthesis, characterization, and reactivity of (M.F. Wright), (376) 353

Dihexyn-4-ylzinc, intramolecular interaction between a zinc atom and a carbon-carbon triple bond in (E. Oknińska, K.B. Starowieyski), (376) 7

Sulphur-bridged trinuclear carbonylalkynyliron clusters, preparation, properties and structure of (Th. Fassler, G. Huttner), (376) 367

Tellurium

Telluronium heterocyclic β -diketonates, synthesis, spectra and biological activity of (K.M. Prasad, N.R. Rao, M.C. Ganorkar, C.M. Chary), (376) 53

Tin

Allylstannation of aldehydes by crotyltin chlorides in acid media (D. Marton, G. Tagliavini, N. Vanzan), (376) 269

Bromodestannylation reactions of some functionally substituted organotin compounds (A.B. Chopa, L.C. Koll, J.C. Podestá, T.N. Mitchell), (376) 283

Triphenyltin(IV) chloroacetate, $[(\text{C}_6\text{H}_5)_3\text{SnOC}(\text{O})\text{CH}_2\text{Cl}]$, $\text{VT}^{119\text{m}}\text{Sn}$ Mössbauer spectroscopy and X-ray crystallography of (S.W. Ng, K.L. Chin, C. Wei, V.G. Kumar Das, R.J. Butcher), (376) 277

Tungsten

2,2-Bis(diphenylphosphinomethyl)-1-phenylthiopropene and its group 6 complexes, synthesis of (S.-T. Liu, H.-E. Wang, M.-C. Cheng, S.-M. Peng), (376) 333

η^3 -Phosphino-, -arsino- and -thioketen complexes of tungsten, synthesis of (M. Wolfgruber, C.M. Stegmair, F.R. Kreissl), (376) 45

Tungsten(II) metallacycles via two-dimensional indirect (^1H , ^{183}W) NMR spectroscopy, ^{183}W NMR data for (R. Benn, A. Ruffinowska, M.A. King, C.E. Osterberg, T.G. Richmond), (376) 359

Yttrium

Heterobimetallic bridged alkynide complex, $(\text{C}_5\text{Me}_5)\text{Y}(\mu\text{-C}\equiv\text{CCMe}_3)_2\text{Li}(\text{THF})$, synthesis and X-ray structure of (W.J. Evans, D.K. Drummond, T.P. Hanusa, J.M. Olofson), (376) 311

Zinc

Bis(pentamethylcyclopentadienyl)zinc and bis(tetramethylphenylcyclopentadienyl)zinc, solid state structures of (B. Fischer, P. Wijkens, J. Boersma, G. van Koten, W.J.J. Smeets, A.L. Spek, P.H.M. Budzelaar), (376) 223

Dihexyn-4-ylzinc, intramolecular interaction between a zinc atom and a carbon-carbon triple bond in (E. Oknińska, K.B. Starowieyski), (376) 7

Organozinc compounds, regioselectivity towards α -iminoesters of (G. Courtois, L. Miginiac), (376) 235

C52

Zirconium

Chalcogen-containing metallocenic compounds with elemental chalcogens, thermal stability and reaction of (G. Tainturier, M. Fahim, G. Trouvé-Bellan, B. Gautheron), (376) 321

Book review

The nuclear Overhauser effect in structural and conformational analysis; by D. Neuhaus, M. Williamson (G. Lawless), (376) C44