

JOURNAL OF ORGANOMETALLIC CHEMISTRY, VOL. 436 (1992)**SUBJECT INDEX****Aluminium**

Alkylidenedinitrosylmolybdenum complexes. Preparation, characteristics and metathesis activity of dicarboxylatoethylidenedinitrosylmolybdenum complexes (A. Keller), (436) 199

Boron

Synthesis and structural characterization of cycloborasiloxanes: the X-ray crystal structures of *cyclo*-1,3,3,5,5-pentaphenyl-1-bora-3,5-disiloxane and *cyclo*-1,3,3,5,7,7-hexaphenyl-1,5-dibora-3,7-disiloxane (B.J. Brisdon, M.F. Mahon, K.C. Molloy and P.J. Schofield), (436) 11

Chromium

Pentacarbonylchromium complexes containing the fluorinated isocyanide ligands H₂FCNC and HF₂CNC (D. Lentz and D. Preugschat), (436) 185

Reactions of silyl enol ethers with [ethoxy(phenylethynyl)carbene]chromium and -tungsten complexes (F. Camps, L. Jordi, J.M. Moretó, S. Ricart, A.M. Castaño and A.M. Echavarren), (436) 189

Oxidative addition reactions of [Os₃(CO)₁₀(MeCN)₂] with 2-imine-substituted derivatives of furan, thiophene, selenophene and pyrrole (A.J. Arce, Y. De Sanctis, L. Hernandez, M. Marquez and A.J. Deeming), (436) 351

Cobalt

Reactions of 1,3,5-trithiacyclohexane with tetrahedral ruthenium–cobalt clusters (S. Rossi, J. Pursiainen and T.A. Pakkanen), (436) 55

Crystal and molecular structure of [Co(η^5 -C₅H₅) \times (CO)₂] (M.Y. Antipin, Y.T. Struchkov, A.N. Chernega, M.F. Meidine and J.F. Nixon), (436) 79

The reaction of diphenylphosphine, PPh₂H, with an alkyne-bridged dicobalt carbonyl complex; the synthesis crystal structure and reactivity of the complex [Co₂{ μ -C(CO₂Me)=CHCO₂Me}{ μ -PPh₂}(CO)₄] (A.J.M. Caffyn, M.J. Mays, G. Conole, M. McPartlin and H.R. Powell), (436) 83

Cobaltcarbonyl-Komplexe von Alkinyl-Silanen (H. Lang, U. Lay und M. Weinmann), (436) 265

Copper

Ethinylferrrocene durch direkte Einführung von Acetylenen (M. Buchmeiser und H. Schottenberger), (436) 223

Chemistry of iridium carbonyl cluster complexes. Synthesis, chemical characterization and solid state structure of the mixed-metal carbonyl cluster [PPh₄] \llbracket Ir₆(μ -CO)₃(CO)₁₂{ μ_3 -Cu(NCMe)} \rrbracket ·CH₂Cl₂ and its conversion to the dianion [Ir₁₂(CO)₂₆]²⁻ (R. Della Pergola, L. Garlaschelli, F. Demartin, M. Manassero and N. Masciocchi), (436) 241

Hafnium

Ferrocenhaltige Liganden in der Lanthanid-Chemie: Alkoxide und Thiolate (H. Gornitzka, F.T. Edelmann und K. Jacob), (436) 325

Iridium

Chemistry of iridium carbonyl cluster complexes. Synthesis, chemical characterization and solid state structure of the mixed-metal carbonyl cluster [PPh₄] \llbracket Ir₆(μ -CO)₃(CO)₁₂{ μ_3 -Cu(NCMe)} \rrbracket ·CH₂Cl₂ and its conversion to the dianion [Ir₁₂(CO)₂₆]²⁻ (R. Della Pergola, L. Garlaschelli, F. Demartin, M. Manassero and N. Masciocchi), (436) 241

Iron

Umsetzungen von Molybdän-Arsen-Tetrahedranen mit $\text{Fe}_2(\text{CO})_9$ und $\text{Fe}_3(\text{CO})_{12}$ (M. Gorzellik, B. Nuber und M.L. Ziegler), (436) 207

Ethinylferrocene durch direkte Einführung von Acetylenen (M. Buchmeiser und H. Schottenberger), (436) 223

Chelatstabilisierung von Lanthanid(III)-Organylen: Über 2-(Dimethylaminomethyl)ferrocenyl-Komplexe ausgewählter Seltener Erden (K. Jacob, W. Kretschmer, K.-H. Thiele, H. Gornitzka, F.T. Edelmann, I. Pavlik, A. Lyčka und J. Holeček), (436) 231

Ferrocenhaltige Liganden in der Lanthanid-Chemie: Alkoxide und Thiolate (H. Gornitzka, F.T. Edelmann und K. Jacob), (436) 325

σ -Ferrocenyl-Komplexe des Rutheniums (M. Herberhold, W. Feger und U. Kölle), (436) 333

Lanthanides

Chelatstabilisierung von Lanthanid(III)-Organylen: Über 2-(Dimethylaminomethyl)ferrocenyl-Komplexe ausgewählter Seltener Erden (K. Jacob, W. Kretschmer, K.-H. Thiele, H. Gornitzka, F.T. Edelmann, I. Pavlik, A. Lyčka und J. Holeček), (436) 231

Metallocenes

Zum Koordinationsverhalten der Lewis-Basen HCN und DCN gegenüber $\text{Cp}_2\text{Ti}(\text{AsF}_6)_2$ (A. Schulz und T.M. Klapötke), (436) 179

Chelatstabilisierung von Lanthanid(III)-Organylen: Über 2-(Dimethylaminomethyl)ferrocenyl-Komplexe ausgewählter Seltener Erden (K. Jacob, W. Kretschmer, K.-H. Thiele, H. Gornitzka, F.T. Edelmann, I. Pavlik, A. Lyčka und J. Holeček), (436) 231

Ferrocenhaltige Liganden in der Lanthanid-Chemie: Alkoxide und Thiolate (H. Gornitzka, F.T. Edelmann und K. Jacob), (436) 325

σ -Ferrocenyl-Komplexe des Rutheniums (M. Herberhold, W. Feger und U. Kölle), (436) 333

Molybdenum

Alkylidenedinitrosymolybdenum complexes. Preparation, characteristics and metathesis activity of dicarboxylatoethylidenedinitrosymolybdenum complexes (A. Keller), (436) 199

Umsetzungen von Molybdän-Arsen-Tetrahedranen mit $\text{Fe}_2(\text{CO})_9$ und $\text{Fe}_3(\text{CO})_{12}$ (M. Gorzellik, B. Nuber und M.L. Ziegler), (436) 207

Nickel

Aktivierung von CO_2 an Übergangsmetallzentren: Zum Ablauf der homogen-katalytischen Bildung von 2-Pyron aus Kohlendioxid und Hex-3-in an Nickel(0)-Fragmenten (D. Walther, G. Bräunlich, R. Kempe und J. Sieler), (436) 109

Niobium

Präparative, ^{11}B -, ^{93}Nb -NMR-spektroskopische und strukturelle Untersuchungen an $\text{Cp}_2\text{NbBH}_4^-$ und $[\text{CpNb}(\text{B}_2\text{H}_6)_2]_2$ -Komplexen (H. Brunner, G. Gehart, W. Meier, J. Wachter, B. Wrackmeyer, B. Nuber und M.L. Ziegler), (436) 313

Osmium

Synthesis and structural characterization of $[\text{HOs}_3(\text{CO})_9(\text{OEt})(\text{R}_2\text{C}_2)]$ ($\text{R} = \text{Me}$ or Ph) (D. Braga, P. Sabatino, B.F.G. Johnson, J. Lewis and A. Massey), (436) 73

Palladium

Komplexchemie perhalogenierter Cyclopentadiene und Alkine. IX. Darstellung einiger Phosphoni-umacetylid-Komplexe und Struktur von $(\text{Ph}_3\text{P})\text{Cl}_2\text{Pd}(\text{C}\equiv\text{CPPh}_3)$ (K. Sünkel), (436) 101

Synthesis of palladium(II) and platinum(II) N,N -dialkyldithiocarbamates starting from hydroxohalophenyl complexes (G. López, J. Ruiz, G. García, C. Vicente, J.M. Martí and V. Rodríguez), (436) 121

Palladium-catalyzed rearrangement of silanes containing oxygen or halogen α to silicon (V. Gevorgyan, L. Borisova and E. Lukevics), (436) 277

Palladium-assisted formation of carbon-carbon bonds. Stoichiometric synthesis of indenols and indenones. Catalytic synthesis of an indenol (J. Vicente, J.-A. Abad and J. Gil-Rubio), (436) C9

Phosphorus

- Approaches to new water-soluble phosphines (T.N. Mitchell and K. Heesche-Wagner), (436) 43
 Catalytic activity of *cis*-[μ -{bis(1,1-dimethylethyl)- phosphino}]dicarbonyl- μ -chlorobis[tris(1,1-dimethyl-ethyl)- phosphine]dirhodium and of its chiral analog (+)-*cis*-[μ -{bis-(1,1-dimethylethyl)phosphino}]dicarbonyl- μ - chlorobis[[5 β -methyl-2 α -(1 α -methyllethyl)cyclohexyl]- diphenylphosphine]dirhodium (E. Berkovich, A. Jacobson, J. Blum, H. Schumann, M. Schäfers and H. Hemling), (436) 95
 Komplexchemie perhalogenierter Cyclopentadiene und Alkine. IX. Darstellung einiger Phosphoni- umacetylid-Komplexe und Struktur von (Ph_3P) $\text{Cl}_2\text{Pd}(\text{C}\equiv\text{CPPh}_3)$ (K. Sünkel), (436) 101
 Reactivity of functionalized diphosphiranes and 1,3-diphosphapropenes towards Grignard reagents (R. El-Ouatib, C. Garot, G. Etemad-Moghadam and M. Koenig), (436) 169
 σ -Ferrocenyl-Komplexe des Rutheniums (M. Herberhold, W. Feger und U. Kölle), (436) 333
 Zur Funktionalisierung von Decaphenylcyclopentasilan (W. Uhlig und C. Tretner), (436) C1
 Zur Addition des Thiomethyl-Kations an die Wolfram-Kohlenstoff-Doppelbindung in [$\text{Cp}(\text{CO})$ - $(\text{PMo}_3)\text{W}=\text{C}(\text{Tol})\text{PR}_2$] [PF_6] (J. Ostermeier, W. Schütt und F.R. Kreißl), (436) C17

Platinum

- Komplexchemie perhalogenierter Cyclopentadiene und Alkine. IX. Darstellung einiger Phosphoni- umacetylid-Komplexe und Struktur von (Ph_3P) $\text{Cl}_2\text{Pd}(\text{C}\equiv\text{CPPh}_3)$ (K. Sünkel), (436) 101
 Synthesis of palladium(II) and platinum(II) *N,N*-dialkyldithiocarbamates starting from hydroxo- halophenyl complexes (G. López, J. Ruiz, G. García, C. Vicente, J.M. Martí and V. Rodríguez), (436) 121
 Electrochemistry, electron spin resonance, optical spectroscopy, and reactivity of organometallic platinum(II) complexes containing strongly π -accepting aromatic α -diimine ligands (C. Vogler, B. Schwederski, A. Klein and W. Kaim), (436) 367

Rhodium

- Catalytic activity of *cis*-[μ -{bis(1,1-dimethylethyl)- phosphino}]dicarbonyl- μ -chlorobis[tris(1,1-dimethyl-ethyl)- phosphine]dirhodium and of its chiral analog (+)-*cis*-[μ -{bis-(1,1-dimethylethyl)phosphino}]dicarbonyl- μ - chlorobis[[5 β -methyl-2 α -(1 α -methyllethyl)cyclohexyl]- diphenylphosphine]dirhodium (E. Berkovich, A. Jacobson, J. Blum, H. Schumann, M. Schäfers and H. Hemling), (436) 95
 Komplexchemie perhalogenierter Cyclopentadiene und Alkine. IX. Darstellung einiger Phosphoni- umacetylid-Komplexe und Struktur von (Ph_3P) $\text{Cl}_2\text{Pd}(\text{C}\equiv\text{CPPh}_3)$ (K. Sünkel), (436) 101

Ruthenium

- Reactions of 1,3,5-trithiacyclohexane with tetrahedral ruthenium–cobalt clusters (S. Rossi, J. Pursiainen and T.A. Pakkanen), (436) 55
 σ -Ferrocenyl-Komplexe des Rutheniums (M. Herberhold, W. Feger und U. Kölle), (436) 333

Samarium

- Ferrocenhaltige Liganden in der Lanthanid-Chemie: Alkoxide und Thiolate (H. Gornitzka, F.T. Edelmann und K. Jacob), (436) 325

Selenium

- Ferrocenhaltige Liganden in der Lanthanid-Chemie: Alkoxide und Thiolate (H. Gornitzka, F.T. Edelmann und K. Jacob), (436) 325

Silicon

- Spectroscopic and AM1 semiempirical studies of vibrations of tris(trimethylsilyl)silane derivatives, (Me_3Si)₃SiX (X = H, Cl, OH, OD, Me, OMe, SiMe₃) (B.H. Boo, H.K. Kang, S.K. Kang, S.S. Lee, D. Kim and M.H. Lee), (436) 1

- Synthesis and structural characterization of cycloborasiloxanes: the X-ray crystal structures of *cyclo*-1,3,3,5,5-pentaphenyl-1-bora-3,5-disiloxane and *cyclo*-1,3,3,5,7,7-hexaphenyl-1,5-dibora-3,7-disiloxane (B.J. Brisdon, M.F. Mahon, K.C. Molloy and P.J. Schofield), (436) 11
- Molecular geometry and ring deformation of trimethylsilylbenzenes: gas-phase electron-diffraction study of 1,3-bis(trimethylsilyl)benzene and 1,3,5-tris(trimethylsilyl)benzene (B. Rozsondai and I. Hargittai), (436) 127
- Titanium-catalyzed cycloaddition reactions of phenyl(trimethylsilyl)acetylene to conjugated dienes and 1,3,5-cycloheptatriene. 1-Phenyl-2-(trimethylsilyl)-cyclohexa-1,4-dienes and their aromatization (R. Klein, P. Sedmera, J. Čejka and K. Mach), (436) 143
- Ethynylferrocene durch direkte Einführung von Acetylenen (M. Buchmeiser und H. Schottenberger), (436) 223
- A study by electron spin resonance spectroscopy of the di-t-butylsilanone radical anion (A.G. Davies and A.G. Neville), (436) 255
- Cobaltcarbonyl-Komplexe von Alkinyl-Silanen (H. Lang, U. Lay und M. Weinmann), (436) 265
- Palladium-catalyzed rearrangement of silanes containing oxygen or halogen α to silicon (V. Gevorgyan, L. Borisova and E. Lukevics), (436) 277
- Zur Funktionalisierung von Decaphenylcyclopentasilan (W. Uhlig und C. Tretner), (436) C1

Tellurium

- Ferrocenhaltige Liganden in der Lanthanid-Chemie: Alkoxide und Thiolate (H. Gornitzka, F.T. Edelmann und K. Jacob), (436) 325

Tin

- Main group metal 1,3-dithiole-2-thione-4,5-dithiolate (DMIT) compounds. II. Synthesis and structures of tetrabutylammonium butyl- and phenyl-bis(1,3-dithiole-2-thione-4,5-dithiolato)stannates, $[Bu_4N]^+[RSn(DMIT)_2^-]$ (R = Bu or Ph) (S.M.S.V. Doidge-Harrison, R.A. Howie, J.T.S. Irvine, G.M. Spencer and J.L. Wardell), (436) 23
- A Mössbauer study of tin(IV) and organotin(IV) adducts of bis(pyrazolyl)methane-type ligands (G. Gioia Lobbia, A. Cingolani, P. Cecchi, S. Calogero and F.E. Wagner), (436) 35
- Some triphenyltin(IV) complexes containing potentially bidentate, biologically active anionic groups (B.D. James, S. Gioskos, S. Chandra, R.J. Magee and J.D. Cashion), (436) 155
- Preparation, IR, ^{13}C and ^{119}Sn Mössbauer spectral studies of organotin(IV) derivatives of ethylenediaminetetraacetic acid (G.K. Sandhu and R. Hundal), (436) 287
- Synthesis and structure of organotin complexes of ytterbium (L.N. Bochkarev, O.V. Grachev, S.F. Ziltsov, L.N. Zakharov and Y.T. Struchkov), (436) 299
- Zur Funktionalisierung von Decaphenylcyclopentasilan (W. Uhlig und C. Tretner), (436) C1
- Anchimerically assisted cleavage of a one-electron bond in the $[Me_2N(CH_2)_3Sn^nBu_3]^{+}$ radical cation (E. Butcher, C.J. Rhodes, R.S. Davidson and R. Bowser), (436) C5

Titanium

- Titanium-catalyzed cycloaddition reactions of phenyl(trimethylsilyl)acetylene to conjugated dienes and 1,3,5-cycloheptatriene. 1-Phenyl-2-(trimethylsilyl)-cyclohexa-1,4-dienes and their aromatization (R. Klein, P. Sedmera, J. Čejka and K. Mach), (436) 143
- Zum Koordinationsverhalten der Lewis-Basen HCN und DCN gegenüber $Cp_2Ti(AsF_6)_2$ (A. Schulz und T.M. Klapötke), (436) 179

Tungsten

- Reactions of silyl enol ethers with [ethoxy(phenylethynyl)carbene]chromium and -tungsten complexes (F. Camps, L. Jordi, J.M. Moretó, S. Ricart, A.M. Castaño and A.M. Echavarren), (436) 189
- Oxidative addition reactions of $[Os_3(CO)_{10}(MeCN)_2]$ with 2-imine-substituted derivatives of furan, thiophene, selenophene and pyrrole (A.J. Arce, Y. De Sanctis, L. Hernandez, M. Marquez and A.J. Deeming), (436) 351
- Zur Addition des Thiomethyl-Kations an die Wolfram–Kohlenstoff-Doppelbindung in $[Cp(CO)-(PMe_3)W=C(Tol)PR_2][PF_6]$ (J. Ostermeier, W. Schütt und F.R. Kreißl), (436) C17

Ytterbium

Synthesis and structure of organotin complexes of ytterbium (L.N. Bochkarev, O.V. Grachev, S.F. Ziltsov, L.N. Zakharov and Y.T. Struchkov), (436) 299

Zirconium

Ferrocenhaltige Liganden in der Lanthanid-Chemie: Alkoxide und Thiolate (H. Gornitzka, F.T. Edelmann und K. Jacob), (436) 325

Book reviews

Inorganic Reactions and Methods, Vol. 13, The Formation of Bonds to Group-I, -II, and -IIIB Elements, A.P. Hagen (Ed.) (C. Eaborn), (436) C13

Inorganic Reactions and Methods. Vol. 9. Formation of Bonds to C, Si, Ge, Sn, Pb (Part I), A.P. Hagen (Ed.) (C. Eaborn), (436) C13

Gmelin Handbook of Inorganic and Organometallic Chemistry. 8th Edition. Supplement Volume B5c. Silicon Nitride in Electronics (C. Eaborn), (436) C14

Free Radical Chain Reactions in Organic Synthesis, W.B. Motherwell and D. Crich (C. Eaborn), (436) C21

Inorganic Reactions and Methods. Volume 4. Formations of Bonds to Halogens (Part 2), A.P. Hagen (Ed.) (C. Eaborn), (436) C21

Gmelin Handbook of Inorganic and Organometallic Chemistry. 8th Ed. Sn. Organotin Compounds. Part 19. Organotin-nitrogen Compounds (concluded), Organotin-Phosphorus, -Arsenic, -Antimony, and -Bismuth Compounds, (C. Eaborn), (436) C22

Gmelin Handbook of Inorganic and Organometallic Chemistry. 8th Edn. F. Perfluorohalogenoorgano Compounds of Main Group Elements. Supplement Vol. 6. Aliphatic and Aromatic Compounds of Nitrogen (continued), (C. Eaborn), (436) C25

Advances in Sonochemistry, Volume 2, T.J. Mason (Ed.) (P.D. Lickiss), (436) C25