

JOURNAL OF ORGANOMETALLIC CHEMISTRY, VOL. 418 (1991)**SUBJECT INDEX****Aluminium**

Group IIIB organometallic peroxides, synthesis and reactivity of (Yu.A. Alexandrov, N.V. Chikinova), (418) 1

Arsenic

Dicarbollyl complexes of phosphor and arsenic, X-ray diffraction study on $\text{ClAs}[\text{C}_2\text{Me}_2\text{B}_9\text{H}_9]$ (P. Jutzi, D. Wegener, M. Hursthouse), (418) 277

Boron

Dicarbollyl complexes of phosphor and arsenic, X-ray diffraction study on $\text{ClAs}[\text{C}_2\text{Me}_2\text{B}_9\text{H}_9]$ (P. Jutzi, D. Wegener, M. Hursthouse), (418) 277

Dihalogenophenylhydrododecacarborates $[(m,m\text{-X}_2\text{C}_6\text{H}_3)_n\text{B}_{12}\text{H}_{12-n}]^{2-}$ and $[(p,m\text{-X}_2\text{C}_6\text{H}_3)_n\text{B}_{12}\text{H}_{12-n}]^{2-}$ ($\text{X} = \text{Cl}, \text{Br}; n = 1-3$); synthesis, ^{11}B , ^{13}C and ^1H NMR spectra of (R. von Bismarck, W. Preetz), (418) 147

Group IIIB organometallic peroxides, synthesis and reactivity of (Yu.A. Alexandrov, N.V. Chikinova), (418) 1

Heterodinuclear group 6 metallacarboranes; synthesis and characterization of $[\text{closo-3,3,3-(CO)}_3\text{SnPh}_3\text{-3,1,2-MC}_2\text{B}_9\text{H}_{11}]^-$ ($\text{M} = \text{Cr}, \text{Mo}, \text{W}$) (J. Kim, Y. Do, Y.S. Sohn, C.B. Knobler, M.F. Hawthorne), (418) C1

Trichlorophenylhydrododecacarborates $[(m,p,m\text{-Cl}_3\text{C}_6\text{H}_2)_n\text{B}_{12}\text{H}_{12-n}]^{2-}$ ($n = 1, 2$); synthesis, ^{11}B , ^{13}C , and ^1H NMR spectra of; influence of phenyl substituents on the chemical shift of the ^{11}B nuclei (R. von Bismarck, W. Preetz), (418) 157

Caesium

Alkali metal derivatives of sulfinimidamides, preparation and crystal structures (F. Pauer, D. Stalke), (418) 127

Chromium

Aminocarbene complexes of chromium and molybdenum derived from primary amines, preparation, structure and reactivity of (B. Denise, P. Dubost, A. Parlier, M. Rudler, H. Rudler, J.C. Daran, J. Vaissermann, F. Delgado, A.R. Arevalo, R.A. Toscano, C. Albarez), (418) 377

Heterodinuclear group 6 metallacarboranes; synthesis and characterization of $[\text{closo-3,3,3-(CO)}_3\text{SnPh}_3\text{-3,1,2-MC}_2\text{B}_9\text{H}_{11}]^-$ ($\text{M} = \text{Cr}, \text{Mo}, \text{W}$) (J. Kim, Y. Do, Y.S. Sohn, C.B. Knobler, M.F. Hawthorne), (418) C1

Tetracarbonyl-aminocarbene complexes of chromium, synthesis and aminolysis to give coordinated iminonitrides (K.H. Dötz, A. Rau), (418) 219

Cobalt

$\text{PhCCo}_3(\text{CO})_9$, bis(dimethylphosphino)ethane substitution in; synthesis and X-ray structure of the phosphine-bridged cluster $\text{PhCCo}_3(\text{CO})_7(\text{dmpe})$ (M.-J. Don, M.G. Richmond, W.H. Watson, M. Krawiec, R.P. Kashyap), (418) 231

Phenylethynyl chlorosilanes, complex-bonded; reactivity of (U. Lay, H. Lang), (418) 79

Copper

Copper(I) halogenides, complexes with 3,3,6,6-tetramethyl-1-thia-4-cyclo-heptines; synthesis and structure of (F. Olbrich, G. Schmidt, U. Behrens, E. Weiss), (418) 421

Gallium

Group IIIB organometallic peroxides, synthesis and reactivity of (Yu.A. Alexandrov, N.V. Chikinova), (418) 1

Gold

Gold(I) complexes of 1,1'-bis(diphenylphosphino)ferrocene, studies on (A. Houlton, R.M.G. Roberts, J. Silver, R.V. Parish), (418) 269

Indium

Group IIIB organometallic peroxides, synthesis and reactivity of (Yu.A. Alexandrov, N.V. Chikinova), (418) 1

(Tert-butyl) cyclopentadienylindium(I), $\text{In}(\text{C}_5\text{H}_4\text{CMe}_3)$; synthesis, characterization and X-ray structural study (O.T. Beachley, Jr., J.F. Lees, R.D. Rogers), (418) 165

Iridium

β -Diketonato-1,5-cyclo-octadieneiridium(I) complexes, kinetics of the substitution reactions with derivatives of 1,10-phenanthroline and 2,2'-dipyridyl (J.G. Leipoldt, S.S. Basson, G.J. van Zyl, G.J.J. Steyn), (418) 241

β -diketonato-1,5-cyclooctadieneiridium(I) complexes, oxidative addition of $\text{Hg}(\text{CN})_2$ to; mechanism of (G.J.J. Steyn, S.S. Basson, J.G. Leipoldt, G.J. van Zyl), (418) 113

Iron

Gold(I) complexes of 1,1'-bis(diphenylphosphino)ferrocene, studies on (A. Houlton, R.M.G. Roberts, J. Silver, R.V. Parish), (418) 269

$[\eta^5\text{-Indenyl}]Fe(\text{CO})_3]BF_4$, evidence for η^3 -indenyl intermediates (H. Ahmed, D.A. Brown, N.J. Fitzpatrick, W.K. Glass), (418) C14

Iron sandwich compounds, studies on the anti-tumour activity of (A. Houlton, R.M.G. Roberts, J. Silver), (418) 107

Unsaturated mixed metal clusters $\text{Fe}_2\text{Ru}_2(\text{CO})_{10}(\mu\text{-CO})(\mu_4\text{-Se})(\mu_4\text{-Te})$ and $\text{Fe}_3\text{Ru}(\text{CO})_{10}(\mu\text{-CO})(\mu_4\text{-Se})(\mu_4\text{-Te})$, construction of (P. Mathur, D. Chakrabarty, Md. M. Hossain), (418) 415

Lithium

Alkali metal derivatives of sulfinimidamides, preparation and crystal structures (F. Pauer, D. Stalke), (418) 127

Manganese

η^6 -Arenetricarbonylmanganese cations, reactions with (D.A. Brown, W.K. Glass, K.M. Kreddan, D. Cunningham, P.A. McArdle, T. Higgins), (418) 91

$[(2,4,6\text{-}^1\text{Bu}_3\text{C}_6\text{H}_2\text{O})(^1\text{C}_5\text{Me}_5)]P=Mn(\text{CO})_4$, a stable λ^4 -phosphanediyl complex containing a multiple phosphor-manganese bond (H. Lang, M. Leise, C. Emmerich), (418) C9

Mercury

Trimeric perfluoro-*o*-phenylenemercury, unusual complex with the bromide anion having a polydecker sandwich structure, (V.B. Shur, I.A. Tikhanova, A.I. Yanovsky, Yu.T. Struchkov, P.V. Petrovskii, S.Yu. Panov, G.G. Furin, M.E. Vol'pin), (418) C29

Metallocenes

$\text{Cp}_2\text{Ti}(\mu_2\mu_1\text{-SO}_4)\text{Ti}(\text{H}_2\text{O})\text{Cp}_2$, synthesis and structure of (U. Thewalt, P. Schinnerling), (418) 191

Iron sandwich compounds, studies on the anti-tumour activity of (A. Houlton, R.M.G. Roberts, J. Silver), (418) 107

Molybdenum

Aminocarbene complexes of chromium and molybdenum derived from primary amines, preparation, structure and reactivity of (B. Denise, P. Dubost, A. Parlier, M. Rudler, H. Rudler, J.C. Daran, J. Vaissermann, F. Delgado, A.R. Arevalo, R.A. Toscano, C. Albarez), (418) 377

$\text{CpMH}=\text{C(OEt)Ph}(\text{CO})_2$ ($\text{M} = \text{Mo, W}$) system, hydride to carbene migration and subsequent rearrangement of the consequent products to η^3 -benzyl complexes; crystal structure of the η^3 -benzyl $\text{CpW}(\text{CO})_2(\eta^3\text{-C}_6\text{H}_5\text{CH(OEt)})$ (H. Adams, N.A. Bailey, M.J. Winter, S. Woodward), (418) C39

Heterodinuclear group 6 metallacboranes; synthesis and characterization of [*cis*-3,3,3-(CO)₃-3-SnPh₃-3,1,2-MC₂B₉H₁₁]⁻ ($\text{M} = \text{Cr, Mo, W}$) (J. Kim, Y. Do, Y.S. Sohn, C.B. Knobler, M.F. Hawthorne), (418) C1

(μ - η^2 , η^3 -propargyl)-bis(cyclopentadienyl)tetracarbonydimolybdenum tetrafluoroborate and (μ - η^2 , η^3 -1, 1-dimethylpropargyl)-bis(cyclopentadienyl)tetracarbonydimolybdenum tetrafluoroborate, crystal and molecular structure of (I.V. Barinov, O.A. Reutov, A.V. Polyakov, A.I. Yanovsky, Yu.T. Struchkov, V.I. Sokolov), (418) C24

Tungsten and molybdenum alkylidene complexes [M=CR)(CO)₂(η -C₅H₅)], reactions with the bidentate secondary phosphine C₆H₄(PH₂)₂-1,2; crystal structure of the phospha-allyl complex [W{ σ , η^3 -C₆H₄(PH₂)₂PC(OH)CH(C₆H₄Me-4)}-1,2](CO)(η -C₅H₅)] (J.C. Jeffery, D.W.I. Sams, K.D.V. Weerasuria), (418) 395

Palladium

Pd(PtBu₃)₂, reactivity towards the oxonium ion; crystal structure of *trans*-[(¹Bu₃P)₂Pd(H)(CH₃CN)]-BPh₄ (M. Sommovigo, M. Pasquali, P. Leoni, P. Sabatino, D. Braga), (418) 119

Phosphorus

[2,4,6-¹Bu₃C₆H₂O)(^cC₅Me₅)]P=Mn(CO)₄, a stable λ^4 -phosphanediyl complex containing a multiple phosphor-manganese bond (H. Lang, M. Leise, C. Emmerich), (418) C9

Dicarbollyl complexes of phosphor and arsenic, X-ray diffraction study on ClAs[C₂Me₂B₉H₉] (P. Jutzi, D. Wegener, M. Hursthouse), (418) 277

(dppe)Pt(Me₂SiCH₂CH₂SiMe₂), synthesis by exchange of silyl groups (U. Schubert, C. Müller), (418) C6

Platinum

Aryltellurolate-bridged dinuclear complexes of platinum(II), preparation and characterization of (V.K. Jain, S. Kannan), (418) 349

Facile cycloplatination of nitrogen compounds; crystal structure of the cycloplatinated Schiff's base tetalone derivative PtCl((cyclohexyl)N=C(CH₂)₃C₆H₃)(CO) (P.S. Pregosin, F. Wombacher, A. Albinati, F. Lianza), (418) 249

Potassium

Alkali metal derivatives of sulfinimidamides, preparation and crystal structures (F. Pauer, D. Stalke), (418) 127

Rubidium

Alkali metal derivatives of sulfinimidamides, preparation and crystal structures (F. Pauer, D. Stalke), (418) 127

Ruthenium

Unsaturated mixed metal clusters Fe₂Ru₂(CO)₁₀(μ -CO)(μ_4 -Se)(μ_4 -Te) and Fe₃Ru(CO)₁₀(μ -CO)(μ_4 -Se)(μ_4 -Te), construction of (P. Mathur, D. Chakrabarty, Md. M. Hossain), (418) 415

Selenium

Unsaturated mixed metal clusters Fe₂Ru₂(CO)₁₀(μ -CO)(μ_4 -Se)(μ_4 -Te) and Fe₃Ru(CO)₁₀(μ -CO)(μ_4 -Se)(μ_4 -Te), construction of (P. Mathur, D. Chakrabarty, Md. M. Hossain), (418) 415

Silicon

- Alkyne bridged Co_2Mo_2 clusters with two triply-bridged sulphur atoms, synthesis of; crystal structure of $[\text{Co}_2\text{Mo}_2(\eta^5\text{-Cp})_2(\mu_3\text{-S})_2(\mu_4\text{-CF}_3\text{C}_2\text{Me})(\text{CO})_4]$ (F. Robin, R. Rumin, F.Y. Pétillon, K. Foley, K.W. Muir), (418) C33
- 1,1-Dimethyl-6-[1,1-dimethyl-2-(trimethylsilyl)ethyl]-4-(pentamethyldisilanyl)silepin, thermal behaviour of (H. Sakamoto, M. Ishikawa), (418) 305
- $(\text{Me}_3\text{SiCH}_2)_x\text{SiH}_{4-x}$ ($x = 1-4$), mono-, bis-, tris- and tetrakis(trimethylsilylmethyl)silanes; synthesis and characterization of (C.K. Whitmarsh, L.V. Interrante), (418) 69
- $(=\text{O} \rightarrow \text{Si})$ (aryloxy(methyl)trifluorosilanes, vibrational spectra of (G.A. Gavrilova, N.N. Chipanina, Yu.L. Frolov, L.I. Gubanova, M.G. Voronkov), (418) 291
- Phenylethynyl chlorosilanes, complex-bonded; reactivity of (U. Lay, H. Lang), (418) 79
- $(\text{dppe})\text{Pt}(\text{Me}_2\text{SiCH}_2\text{CH}_2\text{SiMe}_2)$, synthesis by exchange of silyl groups (U. Schubert, C. Müller), (418) C6
- Silatranes from reactions of chloromethylsilatrane with chlorosilanes and magnesium in tetrahydrofuran (V. Gevorgyan, L. Borisova, E. Lukevics), (418) C21
- Silatrane skeleton, effect of ring substitution on the geometry of; crystal structures of 1-phenyl-3,7,10-trimethylsilatrane and 1-*p*-tolyl-carbasilatrane (L. Párkányi, V. Filöp, P. Hencsei, I. Kovács), (418) 173
- Vinyltriethoxysilane, unusual reaction with triethoxysilane catalyzed by nickel acetylacetone (B. Marciniec, H. Maciejewski, J. Mirecki), (418) 61

Sodium

- Alkali metal derivatives of sulfinimidamides, preparation and crystal structures (F. Pauer, D. Stalke), (418) 127

Tantalum

- $(\text{C}_5\text{Me}_5)_2\text{Ta}(\text{PMe}_3)_2$, ring- and phosphine-metallated forms of competitive ligand C–H bond activations (V.C. Gibson, T.P. Kee, S.T. Carter, R.D. Sanner, W. Clegg), (418) 197
- d^2 Tantalum complexes $\text{Cp}_2\text{Ta}(\text{L})\text{H}$, protonation of; synthesis and structural studies of cationic dihydride complexes (J.-F. Leboeuf, O. Lavastre, J.-C. Leblanc, C. Moïse), (418) 359

Tellurium

- Aryltellurolato-bridged dinuclear complexes of platinum(II), preparation and characterization of (V.K. Jain, S. Kannan), (418) 349
- Compounds containing short Te–N bonds, syntheses and crystal structures of (H.W. Roesky, J. Münenberg, R. Bohra, M. Noltemeyer), (418) 339
- Trichloromethylisocyanide complexes, *P*-functionalized isocyanide; synthesis of (S. Ahn, G. Beck, W.P. Fehlhammer), (418) 365
- Unsaturated mixed metal clusters $\text{Fe}_2\text{Ru}_2(\text{CO})_{10}(\mu\text{-CO})(\mu_4\text{-Se})(\mu_4\text{-Te})$ and $\text{Fe}_3\text{Ru}(\text{CO})_{10}(\mu\text{-CO})(\mu_4\text{-Se})(\mu_4\text{-Te})$, construction of (P. Mathur, D. Chakrabarty, Md. M. Hossain), (418) 415

Thallium

- Group IIIB organometallic peroxides, synthesis and reactivity of (Yu.A. Alexandrov, N.V. Chikinova), (418) 1

Tin

- Diaryloxytetraorganodistannoxanes, synthesis and characterization by IR and NMR (^1H , ^{13}C and ^{119}Sn) spectroscopy; crystal structure of $[(^n\text{Bu}_2\text{Sn}(\text{OC}_6\text{H}_4\text{OMe}-2))_2\text{O}]_2$ (C. Vatsa, V.K. Jain, T.K. Das, E.R.T. Tiekkink), (418) 329
- Dibisyl(fluorenylidene)stannene, evidence of its formation (G. Anselme, C. Couret, J. Escudié, S. Richelme, J. Satgé), (418) 321
- Diorganotin(IV) bis(8-quinolinolate) and bis(8-quinolinethiolate) complexes, stereochemistry in solution studied by NOE-difference spectroscopy (I. Tkáč, J. Holeček, A. Lyčka), (418) 311
- Heterodinuclear group 6 metallacarboranes; synthesis and characterization of [*closo*-3,3,3-(CO)₃-3-SnPh₃-3,1,2-MC₂B₉H₁₁]⁻ (M = Cr, Mo, W) (J. Kim, Y. Do, Y.S. Sohn, C.B. Knobler, M.F. Hawthorne), (418) C1

Titanium

$\text{Cp}_2\text{Ti}(\mu_2\mu_1\text{-SO}_4)\text{Ti}(\text{H}_2\text{O})\text{Cp}_2$, synthesis and structure of (U. Thewalt, P. Schinnerling), (418) 191

Tungsten

Bis(cyclopentadienyl)(diphenylacetato)(2,2-diphenylethenyl)tungsten, unexpected product of the reaction of bis(cyclopentadienyl)dihydridotungsten and diphenylketene; synthesis and structure of (G.E. Herberich, K. Linn), (418) 409

$\text{CpMH}=\text{C(OEt)Ph}(\text{CO})_2$ ($\text{M} = \text{Mo, W}$) system, hydride to carbene migration and subsequent rearrangement of the consequent products to η^3 -benzyl complexes; crystal structure of the η^3 -benzyl $\text{CpW}(\text{CO})_2\{\eta^3\text{-C}_6\text{H}_5\text{CH(OEt)}\}$ (H. Adams, N.A. Bailey, M.J. Winter, S. Woodward), (418) C39

Heterodinuclear group 6 metallacarboranes; synthesis and characterization of [*closo*-3,3,3-(CO)₃-3-SnPh₃-3,1,2-MC₂B₉H₁₁]⁻ ($\text{M} = \text{Cr, Mo, W}$) (J. Kim, Y. Do, Y.S. Sohn, C.B. Knobler, M.F. Hawthorne), (418) C1

Tungsten and molybdenum alkylidyne complexes [$\text{M}=\text{CR}(\text{CO})_2(\eta\text{-C}_5\text{H}_5)$], reactions with the bidentate secondary phosphine $\text{C}_6\text{H}_4(\text{PH}_2)_2$ -1,2; crystal structure of the phospha-allyl complex [$\text{W}\{\sigma, \eta^3\text{-C}_6\text{H}_4(\text{PH}_2)\text{PC(OH)CH(C}_6\text{H}_4\text{Me-4})\}-1,2\}(\text{CO})(\eta\text{-C}_5\text{H}_5)$] (J.C. Jeffery, D.W.I. Sams, K.D.V. Weerasuria), (418) 395

Zirconium

A binuclear zirconium fulvalene tetraallyl complex, preparation and molecular structure of [$\eta^5\text{-C}_{10}\text{H}_8\text{ICpZr}(\eta^1\text{-CH}_2\text{CHCH}_2)(\eta^3\text{-CH}_2\text{CHCH}_2)$]² (Y. Wielstra, R. Duchateau, S. Gambarotta, C. Bensimon, E. Gabe), (418) 183

Book reviews

Biocoordination chemistry: coordination equilibria in biological systems; by K. Burger (G.J. Leigh) (418) C17

Electroorganic synthesis; best synthetic methods, Tatsuya Shono (P.A. Chaloner), (418) C17