

JOURNAL OF ORGANOMETALLIC CHEMISTRY, VOL. 356 (1988)

SUBJECT INDEX

Aluminium

Alkylmetals in reactions with $\text{PRhCOPdX(PPh}_3)_2$ ($X = \text{I, Cl}$) under CO; formation of α -diketones and α -hydroxyketones (H. Yamashita, T.-a. Kobayashi, T. Sakakura, M. Tanaka), (356) 125

Antimony

Hexaorgano-substituted triatomics, $\text{R}'_3\text{M}'\text{XM}''\text{R}''_3$, and related species, structures of (C. Glidewell), (356) 151

Arsenic

(Di- η^5 -cyclopentadienyl)bis(hexafluoroarsenato)titanium(IV): synthesis, characterisation and structure of (T. Klapötke, U. Thewalt), (356) 173

Hexaorgano-substituted triatomics, $\text{R}'_3\text{M}'\text{XM}''\text{R}''_3$, and related species, structures of (C. Glidewell), (356) 151

Boron

Alkylmetals in reactions with $\text{PRhCOPdX(PPh}_3)_2$ ($X = \text{I, Cl}$) under CO; formation of α -diketones and α -hydroxyketones (H. Yamashita, T.-a. Kobayashi, T. Sakakura, M. Tanaka), (356) 125

Benzotriazole, regiochemistry of the reaction with KBH_4 of; synthesis of poly(azolyl)borate ligands (F.J. Lalor, S. Miller, N. Garvey), (356) C57

Methyl-substituted cyclopropylmethylboranes, ring cleavage rearrangement of (E.A. Hill, Y.-W. Park), (356) 1

Cadmium

Alkylmetals in reactions with $\text{PRhCOPdX(PPh}_3)_2$ ($X = \text{I, Cl}$) under CO; formation of α -diketones and α -hydroxyketones (H. Yamashita, T.-a. Kobayashi, T. Sakakura, M. Tanaka), (356) 125

Chromium

Antiferromagnetic clusters $(\text{Cp}_2\text{Cr}_2\text{SCMe}_3)(\mu_3\text{-S})_2\text{RhL}_2$ ($\text{L}_2 = \pi\text{-C}_8\text{H}_{12}$ or $(\text{CO})_2$) with long Cr-Rh bonds, synthesis and molecular structures of (A.A. Pasynskii, I.L. Eremenko, V.R. Zalmanovich, V.V. Kaverin, B. Orazsakhmatov, V.M. Novotortsev, O.G. Ellert, A.I. Yanovsky, Yu.T. Struchkov), (356) 57

Bis(diarene)chromium[tricarbonylchromium] mono- and di-substituted complexes, synthesis and space-grouping in (T.M. Pettijohn, J.J. Lagowski), (356) 67

Bis(η^5 -1,2,4-triphosphacyclopentadienyl)chromocene, $[\text{Cr}(\eta^5\text{-C}_2\text{-t-Bu}_2\text{P}_3)_2]$, crystal and molecular structure of (R. Bartsch, P.B. Hitchcock, J.F. Nixon), (356) C1

Carbonylchromocene unbridged and tetramethylethanediy-bridged complexes, electrochemical reactions of (E.U. van Raaij, S. Mönkeberg, H. Kiesele, H.-H. Brintzinger), (356) 307

Carbonylchromocene unbridged and tetramethylethanediy-bridged complexes, reversible coordination of CO ligand to (E.U. van Raaij, H.H. Brintzinger), (356) 315

C=C bonds conjugated with benzenetricarbonylchromium, Friedel-Crafts acylation of (M.-C. Senechal-Tocquer, J.-Y. Le Bihan, D. Gentic, D. Senechal, B. Caro), (356) C5

$\text{MP}(\mu\text{-H})\mu\text{-P-n-Pr}_2\text{Pt(CO)(PCy}_3)_2$ in reaction with $\text{Pt(C}_2\text{H}_4)_2(\text{PCy}_3)_2$, mechanism of "Pt(PCy₃)" addition (J. Powell, M.R. Gregg), (356) C61

Tetrafluorodisilacyclobutene and cyclic dienes, cycloaddition reactions mediated by transition metal carbonyls between (C.H. Lin, C.Y. Lee, T.T. Jzang, C.C. Lin, C.S. Liu), (356) 315

Cobalt

- Benzotriazole, regiochemistry of the reaction with KBH_4 of; synthesis of poly(azolyl)borate ligands (F.J. Lalor, S. Miller, N. Garvey), (356) C57
- Ruthenium clusters as catalysts for C–C and C–N addition reactions of carbodiimides (G.F. Schmidt, G. Süss-Fink), (356) 207
- Tetrafluorodisilacyclobutene and cyclic dienes, cycloaddition reactions mediated by transition metal carbonyls between (C.H. Lin, C.Y. Lee, T.T. Jzang, C.C. Lin, C.S. Liu), (356) 315
- Trisubstituted alkenes employed in catalytic Khand reaction (D.C. Billington, W.J. Kerr, P.L. Pauson, C.F. Farnocchi), (356) 213

Copper

- Benzotriazole, regiochemistry of the reaction with KBH_4 of; synthesis of poly(azolyl)borate ligands (F.J. Lalor, S. Miller, N. Garvey), (356) C57

Germanium

- Germanium and silicon hydrotrioxides, generation of singlet state oxygen by (M. Koenig, J. Barrau, N. Ben Hamida), (356) 133
- Hexaorgano-substituted triatomics, $\text{R}'_3\text{M}'\text{XM}''\text{R}''_3$, and related species, structures of (C. Glidewell), (356) 151

Iridium

- Diocetadienyldiiridium dichloro-bridged complex, investigation of adsorption reactions on γ -alumina of (P. Esteban, J. Real, J.C. Bayón, H. Dexpert, D. Bain, G. Maire), (356) 113
- 2-(3-Nitrobenzylidene)benzimidazole (A), reactions with Rh, Ir and Pt; crystal structure of $[\text{Rh}(\text{A})(4\text{-picoline})(1,5\text{-COD})(\text{CF}_3\text{SO}_3)]$ (A. Albinati, C. Arz, P.S. Pregosin), (356) 367
- 3-Phenylprop-2-en-1-ol, dehydrogenation, hydrogenolysis, isomerization and hydrogenation with carbonylperchloratobis(triphenylphosphine)iridium(I) and carbonyldihydridoperchloratobis(triphenylphosphine) iridium(III) of (C.S. Chin, J.H. Shin, J.B. Kim), (356) 381
- Platinum metal thioether macrocyclic complexes, synthesis and crystal structure of *cis*- $[\text{IrCl}_2(\text{L})]\text{BPPh}_4$ (L = 1,4,8,11-tetrathiacyclotetradecane) (A.J. Blake, R.O. Gould, G. Reid, M. Schröder), (356) 389

Iron

- Benzotriazole, regiochemistry of the reaction with KBH_4 of; synthesis of poly(azolyl)borate ligands (F.J. Lalor, S. Miller, N. Garvey), (356) C57
- Bimetallic acetyl complexes: $(\eta^5\text{-indenyl})_2(\text{CO})_3\text{Fe}_2(\text{COCH}_3)^-$ and $(\eta^5\text{-indenyl})(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_3\text{Fe}_2(\text{COCH}_3)^-$: role in carbonylation reaction of (T.C. Forschner, A.R. Cutler, R.K. Kullnig), (356) C12
- Dinitrosyldicarbonyliron and nitrosyltricarboxylcobalt, catalysis of alkylation of crotyl and α -methylallyl acetates by (J.-L. Rouston, M. Bisnaire, G. Park, P. Guillaume), (356) 195
- Ferrocene redox-active benzo crown ether complex; crystal structure of ferrocene benzo-15-crown-5 sodium (P.D. Beer, H. Sikanyika, C. Blackburn, J.F. McAleer, M.G.B. Drew), (356) C19
- Nonacarbonyl-di-iron and -ruthenium ditertiary phosphine and diphosphazane ligand-bridged complexes (J.S. Field, A.M.A. Francis, R.J. Haines), (356) C23
- η -Pyrrolylmetal clusters, *ortho*-metallation with triosmium clusters of (A.J. Arce, C. Acuña, A.J. Deeming), (356) C47
- Tetrafluorodisilacyclobutene and cyclic dienes, cycloaddition reactions mediated by transition metal carbonyls between (C.H. Lin, C.Y. Lee, T.T. Jzang, C.C. Lin, C.S. Liu), (356) 315
- Tetrakis(trimethylsilyl)-ferrocenes and -titanocenes, hindered rotation of the ring ligands in (J. Okuda), (356) C43
- Tricarbonyl(2-methoxycyclohexadienyl)iron(II) cation, steric and electronic influences on the addition of pyridines to (T.I. Odiaka), (356) 199

Lead

- Hexaorgano-substituted triatomics, $\text{R}'_3\text{M}'\text{XM}''\text{R}''_3$, and related species, structures of (C. Glidewell), (356) 151

Lithium

1,3-Di-*t*-butyl substituted cyclopentadienyltitanium complexes, new structural aspects of (I.F. Urazowski, V.I. Ponomaryov, O.G. Ellert, I.E. Nifant'ev, D.A. Lemenovskii), (356) 181

Magnesium

Alkylmetals in reactions with $\text{PRhCOPdX(PPh}_3)_2$ ($X = \text{I, Cl}$) under CO; formation of α -diketones and α -hydroxyketones (H. Yamashita, T.-a. Kobayashi, T. Sakakura, M. Tanaka), (356) 125

Manganese

Alkylmetals in reactions with $\text{PRhCOPdX(PPh}_3)_2$ ($X = \text{I, Cl}$) under CO; formation of α -diketones and α -hydroxyketones (H. Yamashita, T.-a. Kobayashi, T. Sakakura, M. Tanaka), (356) 125

Benzotriazole, regiochemistry of the reaction with KBH_4 of; synthesis of poly(azolyl)borate ligands (F.J. Lalor, S. Miller, N. Garvey), (356) C57

$[(\text{C}_5\text{Me}_5(\text{CO})_2\text{Mn})_2\text{P}]^+ \text{X}^-$ ($X = \text{CF}_3\text{SO}_3, \text{PF}_6$), the first dimetallaphosphacumulene (A. Strube, J. Heuser, G. Huttner, H. Lang), (356) C9

η -Pyrrolylmetal clusters, *ortho*-metallation with triosmium clusters of (A.J. Arce, C. Acuña, A.J. Deeming), (356) C47

Mercury

Alkylmetals in reactions with $\text{PRhCOPdX(PPh}_3)_2$ ($X = \text{I, Cl}$) under CO; formation of α -diketones and α -hydroxyketones (H. Yamashita, T.-a. Kobayashi, T. Sakakura, M. Tanaka), (356) 125

Metalloenes

Bis(diarene)chromium[tricarbonylchromium] mono- and di-substituted complexes, synthesis and space-grouping in (T.M. Pettijohn, J.J. Lagowski), (356) 67

Bis(η^5 -1,2,4-triphosphacyclopentadienyl)chromocene, $[\text{Cr}(\eta^5\text{-C}_2\text{-t-Bu}_2\text{P}_3)_2]$, crystal and molecular structure of (R. Bartsch, P.B. Hitchcock, J.F. Nixon), (356) C1

Carbonylchromocene unbridged and tetramethylethanediy-bridged complexes, electrochemical reactions of (E.U. van Raaij, S. Mönkeberg, H. Kiesele, H.-H. Brintzinger), (356) 307

Carbonylchromocene unbridged and tetramethylethanediy-bridged complexes, reversible coordination of CO ligand to (E.U. van Raaij, H.H. Brintzinger), (356) 315

$(\text{C}_5\text{H}_5)_2\text{Ti}(\text{PMe}_3)(\text{C}_2\text{H}_2)$, C-C addition reactions with CO_2 , acetone, acetaldehyde and ethylene of (H.G. Alt, G.S. Herrmann, M.D. Rausch, D.T. Mallin), (356) C53

$(\text{C}_5\text{H}_5)_2\text{Zr}(\text{C}_2\text{H}_4)(\text{PMe}_3)$, the first ethylenezirconium compound (H.G. Alt, C.E. Denner, U. Thewalt, M.D. Rausch), (356) C83

Ferrocene redox-active benzo crown ether complex; crystal structure of ferrocene benzo-15-crown-5 sodium (P.D. Beer, H. Sikanyika, C. Blackburn, J.F. McAleer, M.G.B. Drew), (356) C19

η -Pyrrolylmetal clusters, *ortho*-metallation with triosmium clusters of (A.J. Arce, C. Acuña, A.J. Deeming), (356) C47

Tetrakis(trimethylsilyl)-ferrocenes and -titanocenes, hindered rotation of the ring ligands in (J. Okuda), (356) C43

Vinyltitanocene complexes prepared from $(\text{C}_5\text{H}_5)_2(\text{PMe}_3)(\text{C}_2\text{H}_2)$, alcohols and water (H.G. Alt, G.S. Herrmann, M.D. Rausch), (356) C50

Molybdenum

Cycloheptatrienyl-molybdenum and -tungsten complexes, synthesis and substitution chemistry of carbonylacetonitrile derivatives of (R. Breeze, M.S. Plant, A. Ricalton, D.J. Sutton, M.W. Whiteley), (356) 343

$\text{MPt}(\mu\text{-H})\mu\text{-P-n-Pr}_2\text{Pt}(\text{CO})(\text{PCy}_3)$ in reaction with $\text{Pt}(\text{C}_2\text{H}_4)_2(\text{PCy}_3)$, mechanism of "Pt(PCy₃)" addition (J. Powell, M.R. Gregg), (356) C61

Tetrafluorodisilacyclobutene and cyclic dienes, cycloaddition reactions mediated by transition metal carbonyls between (C.H. Lin, C.Y. Lee, T.T. Jzang, C.C. Lin, C.S. Liu), (356) 315

Nickel

Alkylmetal bimetallic systems, synthesis and characterisation of $\text{Ni}[\text{Salen}] \cdot \text{Zn}(\text{C}_2\text{H}_5)_2$ adduct (S.J. Dzugan, V.L. Goedken), (356) 249

- Benzotriazole, regiochemistry of the reaction with KBH_4 of; synthesis of poly(azolyl)borate ligands (F.J. Lalor, S. Miller, N. Garvey), (356) C57
- Tetrafluorodisilacyclobutene and cyclic dienes, cycloaddition reactions mediated by transition metal carbonyls between (C.H. Lin, C.Y. Lee, T.T. Jzang, C.C. Lin, C.S. Liu), (356) 315

Osmium

- η -Pyrrolylmetal clusters, *ortho*-metallation with triosmium clusters of (A.J. Arce, C. Acuña, A.J. Deeming), (356) C47

Palladium

- Alkylmetals in reactions with $\text{PRhCOPdX}(\text{PPh}_3)_2$ ($X = \text{I, Cl}$) under CO; formation of α -diketones and α -hydroxyketones (H. Yamashita, T.-a. Kobayashi, T. Sakakura, M. Tanaka), (356) 125
- 2-Diphenylphosphinomethylenide-6-diphenylphosphinomethylene-6-diphenylphosphinomethylenepyridine-palladium(II) and -platinum(II) complexes; synthesis and crystal structures of $[\text{PtCl}\{2\text{-(CHPh}_2\text{)-6-(CH}_2\text{PPh}_2\text{)pyridine}\}]$ and $[\text{Pd}(\text{COOMe})\{2\text{-(CHPh}_2\text{)-6-(CH}_2\text{PPh}_2\text{)pyridine}\}]$ (A. Sacco, G. Vasapollo, C.F. Nobile, A. Piergiovanni, M.A. Pellinghelli, M. Lanfranchi), (356) 397
- Tris(tribenzylideneacetylacetonetri)palladium: preparation of; a correction (A.M. Echavarren, J.K. Stille), (356) C35

Phosphorus

- Alkylmetals in reactions with $\text{PRhCOPdX}(\text{PPh}_3)_2$ ($X = \text{I, Cl}$) under CO; formation of α -diketones and α -hydroxyketones (H. Yamashita, T.-a. Kobayashi, T. Sakakura, M. Tanaka), (356) 125
- (2-Allylphenyldiphenylphosphine)tetracarbonyltungsten(0), olefin isomerization in (I.-H. Wang, G.R. Dobson), (356) 77
- $[(2,3,5,6\text{-}\eta)\text{-Bicyclo}[2.2.1]\text{hepta-2,5-diene}][P, O\text{-diphenyl(phenylsulphinylmethyl)phosphine}]\text{rhodium(I) trifluoromethane sulphonate and asymmetric analogues, synthesis, crystal structure, and catalytic chemistry of (N.W. Alcock, J.M. Brown, P.L. Evans), (356) 233}$
- Bis($\eta^5\text{-1,2,4-triphosphacyclopentadienyl}$)chromocene, $[\text{Cr}(\eta^5\text{-C}_2\text{-t-Bu}_2\text{P}_3)_2]$, crystal and molecular structure of (R. Bartsch, P.B. Hitchcock, J.F. Nixon), (356) C1
- Carbonyl-phosphine-ruthenium(II) complexes, $(\text{R}_2\text{P})_2\text{Ru}(\text{CO})_2\text{Cl}_2$ and $(\text{R}_3\text{P})_3\text{Ru}(\text{CO})\text{Cl}_2$, homogeneous hydrogenation of 1-hexene by (D.W. Krassowski, J.H. Nelson), (356) 93
- $(\eta\text{-C}_6\text{H}_6)\text{U}(\text{BH}_4)_3\text{L}_2$ complexes in solution ($\text{L} = \text{THF, DME, HMPA, Ph}_3\text{PO}$), structure and ligand exchange reactions of (D. Baudry, P. Dorion, M. Ephritikhine), (356) 165
- $(\text{C}_5\text{H}_5)_2\text{Zr}(\text{C}_2\text{H}_4)(\text{PMe}_3)$, the first ethylenezirconium compound (H.G. Alt, C.E. Denner, U. Thewalt, M.D. Rausch), (356) C83
- $[(\text{C}_5\text{Me}_5(\text{CO})_2\text{Mn})_2\text{P}]^+ \text{X}^-$ ($\text{X} = \text{CF}_3\text{SO}_3, \text{PF}_6$), the first dimetallaphosphacumulene (A. Strube, J. Heuser, G. Huttner, H. Lang), (356) C9
- 2-Diphenylphosphinomethylenide-6-diphenylphosphinomethylene-6-diphenylphosphinomethylenepyridine-palladium(II) and -platinum(II) complexes; synthesis and crystal structures of $[\text{PtCl}\{2\text{-(CHPh}_2\text{)-6-(CH}_2\text{PPh}_2\text{)pyridine}\}]$ and $[\text{Pd}(\text{COOMe})\{2\text{-(CHPh}_2\text{)-6-(CH}_2\text{PPh}_2\text{)pyridine}\}]$ (A. Sacco, G. Vasapollo, C.F. Nobile, A. Piergiovanni, M.A. Pellinghelli, M. Lanfranchi), (356) 397
- Hexaorgano-substituted triatomics, $\text{R}'_3\text{M}'\text{XM}''\text{R}''_3$, and related species, structures of (C. Glidewell), (356) 151
- Orthometallated rhodium(III) compounds, synthesis and reactivity of; crystal structure of $\text{RhCl}(\text{CO})[\text{P}(\text{o-C}_6\text{H}_4)_2\text{Ph}]_2$ (P. Lahuerta, J. Latorre, R. Martínez-Máñez, F. Sanz), (356) 355
- 3-Phenylprop-2-en-1-ol, dehydrogenation, hydrogenolysis, isomerization and hydrogenation with carbonylperchloratobis(triphenylphosphine)iridium(I) and carbonyldihydrido-perchloratobis(triphenylphosphine) iridium(III) of (C.S. Chin, J.H. Shin, J.B. Kim), (356) 381
- Ruthenium clusters as catalysts for C-C and C-N addition reactions of carbodiimides (G.F. Schmidt, G. Süss-Fink), (356) 207
- Silicon centre, modification of reactivity by remote phosphorus group at (J. Kowalski, J. Chojnowski), (356) 285
- Vinyltitanocene complexes prepared from $(\text{C}_5\text{H}_5)_2(\text{PMe}_3)(\text{C}_2\text{H}_2)$, alcohols and water (H.G. Alt, G.S. Herrmann, M.D. Rausch), (356) C50

Platinum

- MPt(μ -H) μ -P-n-Pr₂)Pt(CO)(PCy₃) in reaction with Pt(C₂H₄)₂(PCy₃), mechanism of "Pt(PCy₃)" addition (J. Powell, M.R. Gregg), (356) C61
- 2-(3-Nitrobenzylidene)benzimidazole (A), reactions with Rh, Ir and Pt; crystal structure of [Rh(A)(4-picoline)(1,5-COD)](CF₃SO₃) (A. Albinati, C. Arz, P.S. Pregosin), (356) 367
- Platinum-catalysed hydrosilylation of PhCH=CH₂ with Et₃SiH, mechanistic aspects of (W. Caseri, P.S. Pregosin), (356) 259

Rhenium

- Carbyne, aminocarbyne and η^2 -vinyl complexes *trans*-[ReCl(LH)(dppe)₂][BF₄] (LH = CCH₂-t-Bu, CCH₂Ph, CNH₂, η^2 -C(CH₂Ph)CH₂) and their parent vinylidene, isocyanide and allene compounds, redox properties of (M.A.N.D.A. Lemos, A.J.L. Pombeiro), (356) C79

Rhodium

- Antiferromagnetic clusters (Cp₂Cr₂SCMe₃)(μ_3 -S)₂RhL₂ (L₂ = π -C₈H₁₂ or (CO)₂) with long Cr-Rh bonds, synthesis and molecular structures of (A.A. Pasynskii, I.L. Eremenko, V.R. Zalmanovich, V.V. Kaverin, B. Orazsakhov, V.M. Novotortsev, O.G. Ellert, A.I. Yanovsky, Yu.T. Struchkov), (356) 57
- [(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene] *P*, *O*-diphenyl(phenylsulphinylmethyl)phosphine]rhodium(I) trifluoromethane sulphonate and asymmetric analogues, synthesis, crystal structure, and catalytic chemistry of (N.W. Alcock, J.M. Brown, P.L. Evans), (356) 233
- 2-(3-Nitrobenzylidene)benzimidazole (A), reactions with Rh, Ir and Pt; crystal structure of [Rh(A)(4-picoline)(1,5-COD)](CF₃SO₃) (A. Albinati, C. Arz, P.S. Pregosin), (356) 367
- Orthometallated rhodium(III) compounds, synthesis and reactivity of; crystal structure of RhCl(CO)[P(*o*-ClC₆H₄)Ph₂]₂ (P. Lahuerta, J. Latorre, R. Martinez-Máñez, F. Sanz), (356) 355
- Rhodium catalysts, hydrocarbonylation of ethyl formate in the presence of (A.M. Raspolli Galetti, G. Braca, G. Sbrana), (356) 221

Ruthenium

- Bis(pentamethylcyclopentadienyl)tetracarbonyldirhenium, reactions with S₈ of (H. Brunner, N. Janietz, J. Wachter, B. Nuber, M.L. Ziegler), (356) 85
- Carbonyl-phosphine-ruthenium(II) complexes, (R₂P)₂Ru(CO)₂Cl₂ and (R₃P)₃Ru(CO)Cl₂, homogeneous hydrogenation of 1-hexene by (D.W. Krassowski, J.H. Nelson), (356) 93
- Nonacarbonyl-di-iron and -ruthenium ditertiary phosphine and diphosphazane ligand-bridged complexes (J.S. Field, A.M.A. Francis, R.J. Haines), (356) C23
- Paracyclophane-ruthenium(II) complexes; crystal structure of [Ru(η^6 -C₁₆H₁₆)Cl(C₅H₅N)₂][PF₆] (M.R.J. Elsgood, D.A. Tocher), (356) C29
- [Ru(CO){C₆H₃MeC(O)C₆H₄Me}(C \equiv CPh)(PMe₂Ph)₂], synthesis and crystal structure of (M. Helliwell, K.M. Stell, R.J. Mawby), (356) C32
- Ru₃(μ_3 -NPh)(μ -DPPM)(CO)₈, synthesis and crystal structure of (M. Pizzotti, F. Porta, S. Cenini, F. Demartin), (356) 105
- Ruthenium clusters as catalysts for C-C and C-N addition reactions of carbodiimides (G.F. Schmidt, G. Süß-Fink), (356) 207

Silicon

- Aryldimethylchlorosilanes, reactions with benzyldimethylsilanol of, ¹H NMR investigation of (K. Rühlmann, H. Grosse-Ruyken, D. Scheller, U. Scheim), (356) 39
- Benzene radical cations with chlorosilyl substituents: an ESR study (C.J. Rhodes), (356) 17
- Germanium and silicon hydrotrioxides, generation of singlet state oxygen by (M. Koenig, J. Barrau, N. Ben Hamida), (356) 133
- Hexaorgano-substituted triatomics, R'₃M'XM''R''₃, and related species, structures of (C. Glidewell), (356) 151
- Pentacoordinated silicon organic derivatives with Si ← Cl coordinate bond, evidence for; molecular structure of chloro [1-(1,1-dimethyl-2-(4'-methoxybenzoyl)-hydrazonium)methyl]dimethylsilane (A.A. Macharashvili, V.E. Shlkover, Yu.T. Struchkov, B.A. Gostevskii, I.D. Kalikhman, O.B. Bannikova, M.G. Voronkov, V.A. Pestunovich), (356) 23

- Platinum-catalysed hydrosilylation of $\text{PhCH}=\text{CH}_2$ with Et_3SiH , mechanistic aspects of (W. Caseri, P.S. Pregosin), (356) 259
- Silicon centre, modification of reactivity by remote phosphorus group at (J. Kowalski, J. Chojnowski), (356) 285
- Siloxanes, cleavage by hydrogen oxide of (U. Scheim, R. Lehnert, A. Porzel, K. Rühlmann), (356) 141
- Tetrafluorodisilacyclobutene and cyclic dienes, cycloaddition reactions mediated by transition metal carbonyls between (C.H. Lin, C.Y. Lee, T.T. Jzang, C.C. Lin, C.S. Liu), (356) 315
- Tetrakis(trimethylsilyl)-ferrocenes and -titanocenes, hindered rotation of the ring ligands in (J. Okuda), (356) C43
- Trifluoromethylsilanes, substitution effects in; crystal and molecular structure of CF_3SiPh_3 (H. Beckers, D.J. Brauer, H. Bürger, C.J. Wilke), (356) 31

Sodium

- Ferrocene redox-active benzo crown ether complex; crystal structure of ferrocene benzo-15-crown-5 sodium (P.D. Beer, H. Sikanyika, C. Blackburn, J.F. McAleer, M.G.B. Drew), (356) C19

Sulphur

- Antiferromagnetic clusters $(\text{Cp}_2\text{Cr}_2\text{SCMe}_3)(\mu_3\text{-S})_2\text{RhL}_2$ ($\text{L}_2 = \pi\text{-C}_8\text{H}_{12}$ or $(\text{CO})_2$) with long Cr–Rh bonds, synthesis and molecular structures of (A.A. Pasynskii, I.L. Eremenko, V.R. Zalmanovich, V.V. Kaverin, B. Orasakhatov, V.M. Novotortsev, O.G. Ellert, A.I. Yanovsky, Yu.T. Struchkov), (356) 57
- [(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene][*P*, *O*-diphenyl(phenylsulphinylmethyl)phosphine]rhodium(I) trifluoromethane sulphonate and asymmetric analogues, synthesis, crystal structure, and catalytic chemistry of (N.W. Alcock, J.M. Brown, P.L. Evans), (356) 233
- Bis(pentamethylcyclopentadienyl)tetracarbonyldirhenium, reactions with S_8 of (H. Brunner, N. Janietz, J. Wachter, B. Nuber, M.L. Ziegler), (356) 85
- Dimethyldithiocarbamato-2-(2-quinoliny)phenyltellurium(II), crystal and molecular structure of (A.A. West, W.R. McWhinnie, T.A. Hamor), (356) 159
- Platinum metal thioether macrocyclic complexes, synthesis and crystal structure of *cis*-[$\text{IrCl}_2(\text{L})$] BPh_4 ($\text{L} = 1,4,8,11\text{-tetra-thiacyclotetradecane}$) (A.J. Blake, R.O. Gould, G. Reid, M. Schröder), (356) 389

Tellurium

- Dimethyldithiocarbamato-2-(2-quinoliny)phenyltellurium(II), crystal and molecular structure of (A.A. West, W.R. McWhinnie, T.A. Hamor), (356) 159
- 2-Methyl-1-organo-1-halo-1-telluracyclopentane: synthesis, solution properties, and configurational studies (A.Z. Al-Rubaie, H.A. Al-Shirayda, A.I. Auoob), (356) 49

Thorium

- Cyclopentadienyl and indenyl borohydride organoactinides, synthesis, characterization and physical properties of (S. Bettonville, J. Goffart), (356) 297

Tin

- Alkylmetals in reactions with $\text{PRhCOPdX}(\text{PPh}_3)_2$ ($\text{X} = \text{I}, \text{Cl}$) under CO; formation of α -diketones and α -hydroxyketones (H. Yamashita, T.-a. Kobayashi, T. Sakakura, M. Tanaka), (356) 125
- Germanium and silicon hydrotrioxides, generation of singlet state oxygen by (M. Koenig, J. Barrau, N. Ben Hamida), (356) 133
- Hexaorgano-substituted triatomics, $\text{R}'_3\text{M}'\text{XM}''\text{R}''_3$, and related species, structures of (C. Glidewell), (356) 151

Titanium

- $(\text{C}_5\text{H}_5)_2\text{Ti}(\text{PMe}_3)(\text{C}_2\text{H}_2)$, C–C addition reactions with CO_2 , acetone, acetaldehyde and ethylene of (H.G. Alt, G.S. Herrmann, M.D. Rausch, D.T. Mallin), (356) C53
- (Di- η^3 -cyclopentadienyl)bis(hexafluoroarsenato)titanium(IV): synthesis, characterisation and structure of (T. Klapötke, U. Thewalt), (356) 173
- 1,3-Di-*t*-butyl substituted cyclopentadienyltitanium complexes, new structural aspects of (I.F. Urazowski, V.I. Ponomaryov, O.G. Ellert, I.E. Nifant'ev, D.A. Lemenovskii), (356) 181

- Tetrakis(trimethylsilyl)-ferrocenes and -titanocenes, hindered rotation of the ring ligands in (J. Okuda), (356) C43
- Vinyltitanocene complexes prepared from $(C_5H_5)_2(PMe_3)(C_2H_2)$, alcohols and water (H.G. Alt, G.S. Herrmann, M.D. Rausch), (356) C50

Tungsten

- (2-Allylphenyldiphenylphosphine)tetracarbonyltungsten(0), olefin isomerization in (I.-H. Wang, G.R. Dobson), (356) 77
- Cycloheptatrienyl-molybdenum and -tungsten complexes, synthesis and substitution chemistry of carbonylacetonitrile derivatives of (R. Breeze, M.S. Plant, A. Ricalton, D.J. Sutton, M.W. Whiteley), (356) 343
- MPt(μ -H) μ -P-n-Pr₂Pt(CO)(PCy₃) in reaction with Pt(C₂H₄)₂(PCy₃), mechanism of "Pt(PCy₃)" addition (J. Powell, M.R. Gregg), (356) C61
- Tetrafluorodisilacyclobutene and cyclic dienes, cycloaddition reactions mediated by transition metal carbonyls between (C.H. Lin, C.Y. Lee, T.T. Jzang, C.C. Lin, C.S. Liu), (356) 315

Uranium

- (η -C₆H₆)U(BH₄)₃L₂ complexes in solution (L = THF, DME, HMPA, Ph₃PO), structure and ligand exchange reactions of (D. Baudry, P. Dorion, M. Ephritikhine), (356) 165
- Cyclopentadienyl and indenyl borohydride organoactinides, synthesis, characterization and physical properties of (S. Bettonville, J. Goffart), (356) 297

Zinc

- Alkylmetal bimetallic systems, synthesis and characterisation of Ni[Salen]·Zn(C₂H₅)₂ adduct (S.J. Dzugan, V.L. Goedken), (356) 249
- Alkylmetals in reactions with PRhCOPdX(PPh₃)₂ (X = I, Cl) under CO; formation of α -diketones and α -hydroxyketones (H. Yamashita, T.-a. Kobayashi, T. Sakakura, M. Tanaka), (356) 125

Zirconium

- (C₅H₅)₂Zr(C₂H₄)(PMe₃), the first ethylenezirconium compound (H.G. Alt, C.E. Denner, U. Thewalt, M.D. Rausch), (356) C83

Book reviews

- Catalysis 1987 (Studies in surface science and catalysis, Vol. 38); edited by J.W. Ward (P.A. Chaloner), (356) C86
- Chemical research faculties, 1988 (C. Eaborn), (356) C40
- Compendium of chemical terminology: IUPAC recommendations; compiled by V. Gold K.L. Loening, A.D. McNaught, P. Sehmi (C. Eaborn), (356) C76
- Comprehensive coordination chemistry, Vol. 1-7; editor in chief G. Wilkinson (C. Eaborn, J. Chatt, M.F. Lappert, J.D. Smith, R.L. Richards, P.A. Chaloner, G.J. Leigh), (356) C65
- Gmelin handbook of inorganic chemistry, 8th edition, Organolead compounds, Part 1, Tetramethyllead (C. Eaborn), (356) C40
- Isotopes in organic chemistry, Vol. 7. Secondary and solvent isotope effects; edited by E. Buncl and C.C. Lee (C. Eaborn), (356) C87
- Methane conversion (Studies in surface science and catalysis, 36); edited by D.M. Bibby, C.D. Chang, R.F. Howe, S. Yurchak (G.J. Leigh), (356) C76
- Organometallic chemistry, an overview; by J.S. Thayer (P.A. Chaloner), (356) C75
- Oxygen complexes and oxygen activation by transition metals; edited by A.E. Martell and D.T. Sawyer (G.J. Leigh), (356) C38
- Transition metals and organometallics as catalysts for olefin polymerization; edited by W. Kaminsky and H. Sinn (P.A. Chaloner), (356) C39