

Subject Index of Volume 468

Acetonitrile

1,4-Diphenylbutadiyne complexes of tungsten(II) (T. Ajayi-Obe, E.M. Armstrong, P.K. Baker and S. Prakash), 165

Synthesis and X-ray structures of mono- and bis-acetonitrile derivatives of the cationic rhodium allyl complex $[(\eta^5\text{C}_5\text{Me}_5)\text{Re}(\text{CO})_2(\eta^3\text{-C}_3\text{H}_5)]\text{[BF}_4]$ (R.J. Batchelor, F.W.B. Einstein, Y. He and D. Sutton), 183

Alkene

Reaktionen der Enthalogenierungsprodukte von Dichlor(diisopropylamino)boran mit Olefinen in *n*-Hexan (W. Maringgele, A. Heine, M. Noltemeyer and A. Meller), 25

Alkyne

An unusual trimerization reaction of an alkyne on iridium (T.X. Le, H.E. Selna and J.S. Merola), 257

Syntheses, solution and solid state $^{31}\text{P}\{^1\text{H}\}$ NMR studies, of the first symmetrically-bridging μ -perpendicular phosphaalkyne dirhodium(I) complexes $[\text{Rh}_2\text{X}_2(\mu\text{-dppm})_2(\mu\text{-RCP})]$ ($\text{R} = \text{Bu, Ad; X = Cl or Br}$) (S.I. Al-Resayes, C. Jones, M.J. Maah and J.F. Nixon), 107

Zu Reaktionen disubstituierter Butadiine mit Titanocen-Komplexen (U. Rosenthal, A. Ohff, A. Tillack, W. Baumann and H. Görls), C4

Zur Funktionalisierung oligomerer und polymerer Silylalkine (C. Tretner, B. Zobel, R. Hummeltenberg and W. Uhlig), 63

Allenic ether

Die palladiumkatalysierte Cocyclisierung von Allenen mit elektronenarmen Alkinen. Einige Untersuchungen zur Kupplung von Allenderivaten mit Acetylendicarbonsäuredimethylester an Palladium und Platin (C. Stephan, C. Munz and H. Tom Dieck), 273

Allyl

Synthesis and X-ray structures of mono- and bis-acetonitrile derivatives of the cationic rhodium allyl complex $[(\eta^5\text{C}_5\text{Me}_5)\text{Re}(\text{CO})_2(\eta^3\text{-C}_3\text{H}_5)]\text{[BF}_4]$ (R.J. Batchelor, F.W.B. Einstein, Y. He and D. Sutton), 183

Zur Funktionalisierung oligomerer und polymerer Silylalkine (C. Tretner, B. Zobel, R. Hummeltenberg and W. Uhlig), 63

AM1 calculations

An evaluation of the rotational barrier about the B–N bond of 1-aminoborepins (A.J. Ashe III, W. Klein and R. Rousseau), 21

Aminoborane

An evaluation of the rotational barrier about the B–N bond of 1-aminoborepins (A.J. Ashe III, W. Klein and R. Rousseau), 21

Ammonium

Synthesis and characterization of organoplatinum(II) dithiolate complexes of the type $[\text{PtAr}(\overline{\text{S}}\text{S})(\text{PMePh}_2)]$ (V.K. Jain and S. Chaudhury), 279

Antimony

Trimethylantimony(V) diorganomonothiophosphinates: the crystal structure of bis(diphenylmonothiophosphinato)trimethylantimony(V), $\text{Me}_3\text{Sb}(\text{OSPPh}_2)_2$, containing a monodentate monothiophosphinato ligand (C. Silvestru, I. Haiduc, K.H. Ebert, H.J. Breunig and D.B. Sowerby), 113

Aryl

Synthesis and characterization of binuclear arylthiolato- and phenylselenolato-bridged organoplatinum(II) complexes: crystal structure of $[\text{Pt}_2\text{Ph}_2(\mu\text{-SPh})_2(\text{PMe}_2\text{Ph})_2]$ (V.K. Jain, S. Kannan, R.J. Butcher and J.P. Jasinski), 285

Synthesis and characterization of triarylborathiins, $\text{Ar}_3\text{B}_3\text{S}_3$ ($\text{Ar} = 4\text{-MeC}_6\text{H}_4$, $3\text{-MeC}_6\text{H}_4$, $2\text{-MeC}_6\text{H}_4$, $4\text{-EtC}_6\text{H}_4$, and $3,5\text{-Me}_2\text{C}_6\text{H}_3$) (M.A. Beckett, P.R. Minton and B. Werschken), 37

Transmetallation reaction of Schiff-base-type arylmercury compounds with 4-ethoxyphenyltellurium(IV) trichloride and the crystal structure of (4-ethoxyphenyl)(2-benzylideneamino-5-methyl)phenyl]tellurium(IV) dichloride (Y. Wu, K. Ding, Y. Wang, Y. Zhu and L. Yang), 13

Bimetallic

1,4-Diphenylbutadiyne complexes of tungsten(II) (T. Ajayi-Obe, E.M. Armstrong, P.K. Baker and S. Prakash), 165

Bond activation

Zu Reaktionen disubstituierter Butadiine mit Titanocen-Komplexen (U. Rosenthal, A. Ohff, A. Tillack, W. Baumann and H. Görls), C4

Boracycloalkane

Reaktionen der Enthalogenierungsprodukte von Dichlor(diisopropylamino)boran mit Olefinen in *n*-Hexan (W. Maringgele, A. Heine, M. Noltemeyer and A. Meller), 25

Borepin

An evaluation of the rotational barrier about the B–N bond of 1-aminoborepins (A.J. Ashe III, W. Klein and R. Rousseau), 21

Boron

An evaluation of the rotational barrier about the B–N bond of 1-aminoborepins (A.J. Ashe III, W. Klein and R. Rousseau), 21

Reaktionen der Enthalogenierungsprodukte von Dichlor(diisopropylamino)boran mit Olefinen in *n*-Hexan (W. Maringgele, A. Heine, M. Noltemeyer and A. Meller), 25

Synthesis and characterization of triarylborathiins, $\text{Ar}_3\text{B}_3\text{S}_3$ ($\text{Ar} = 4\text{-MeC}_6\text{H}_4$, $3\text{-MeC}_6\text{H}_4$, $2\text{-MeC}_6\text{H}_4$, $4\text{-EtC}_6\text{H}_4$, and $3,5\text{-Me}_2\text{C}_6\text{H}_3$) (M.A. Beckett, P.R. Minton and B. Werschken), 37

Synthesis of the sterically hindered complexes $[\text{M}(\text{CO})_5(\text{CNBR}_2)]$ [$\text{R} = \text{CH}(\text{SiMe}_3)_2$; $\text{M} = \text{Cr, Mo, or W}$]. Crystal structure of $[\text{Cr}(\text{CO})_5(\text{CNBR}_2)]$ (G. Beck, M.F. Lappert and P.B. Hitchcock), 143

Borathiin

Synthesis and characterization of triarylborathiins, $\text{Ar}_3\text{B}_3\text{S}_3$ ($\text{Ar} = 4\text{-MeC}_6\text{H}_4$, $3\text{-MeC}_6\text{H}_4$, $2\text{-MeC}_6\text{H}_4$, $4\text{-EtC}_6\text{H}_4$, and $3,5\text{-Me}_2\text{C}_6\text{H}_3$) (M.A. Beckett, P.R. Minton and B. Werschken), 37

Bridging ligand

Darstellung und Struktur des dimeren η^5 -Cyclopentadienyl-titan-di-formiats (T. Wöhrlé and U. Thewalt), C1

- High nuclearity ruthenium cluster compounds containing phosphorus ligands; synthesis and crystal structure of $[\text{Ru}_6(\text{CO})_{11}(\text{P}^t\text{Bu})_4]$, $[\text{Ru}_7(\text{CO})_{14}(\text{P}^t\text{Bu})_4]$, and $[\text{H}_3\text{Ru}_9(\text{CO})_{20}(\mu_7\text{-P})(\text{P}^t\text{Bu})_3]$** (E. Charalambous, L. Heuer, B.F.G. Johnson, J. Lewis, W.-S. Li, M. McPartlin and A.D. Massey), C9
- The reaction of alkyl derivatives of yttrium and lutetium with organic disulphides and diselenides: The molecular structure of $\{(\text{C}_5\text{H}_4)_2\text{Y}(\mu\text{-SePh})_2\}_2 \cdot \text{C}_6\text{H}_6$ (I.P. Beletskaya, A.Z. Voskoboinikov, A.K. Shestakova, A.I. Yanovsky, G.K. Fukin, L.N. Zacharov, Y.T. Struchkov and H. Schumann), 121
- Butadiyne**
- 1,4-Diphenylbutadiyne complexes of tungsten(II) (T. Ajayi-Obe, E.M. Armstrong, P.K. Baker and S. Prakash), 165
- Zu Reaktionen disubstituierter Butadiene mit Titanocen-Komplexen (U. Rosenthal, A. Ohff, A. Tillack, W. Baumann and H. Görts), C4
- But-2-yne**
- The synthesis, fluxional properties and X-ray crystal structure of $[\text{WI}(\text{CO})(\text{C}_4\text{H}_3\text{N}_2\text{S})(\eta^2\text{-MeC}_2\text{Me})_2]$ (where $[\text{C}_4\text{H}_3\text{N}_2\text{S}]^-$ = pyrimidine-2-thionate) (P.K. Baker, P.D. Jackson, M.E. Harman and M.B. Hursthause), 171
- Carbonyl**
- 1,4-Diphenylbutadiyne complexes of tungsten(II) (T. Ajayi-Obe, E.M. Armstrong, P.K. Baker and S. Prakash), 165
- Metal complexes of new chiral tridentate ligands with N, P and S donors: The crystal structure of $[(S)\text{-Ph}_2\text{POCH}_2\text{CH}(\text{NMe}_2)\text{-CH}_2\text{CH}_2\text{SCH}_3\text{JW}(\text{CO})_3]$ (J.W. Faller, N. Zhang, K.J. Chase, W.K. Musker, A.R. Amaro and C.M. Semko), 175
- Synthesis of the sterically hindered complexes $[\text{M}(\text{CO})_5(\text{CNBR}_2)]$ [$\text{R} = \text{CH}(\text{SiMe}_3)_2$; $\text{M} = \text{Cr}$, Mo , or W]. Crystal structure of $[\text{Cr}(\text{CO})_5(\text{CNBR}_2)]$ (G. Beck, M.F. Lappert and P.B. Hitchcock), 143
- Carboxylato**
- Darstellung und Struktur des dimeren η^5 -Cyclopentadienyl-titan-di-formiats (T. Wöhrlé and U. Thewalt), C1
- Carboxylic acid**
- Die palladiumkatalysierte Cocyclisierung von Allenen mit elektronenarmen Alkinen. Einige Untersuchungen zur Kupplung von Allenderivaten mit Acetylendicarbonsäuredimethylester an Palladium und Platin (C. Stephan, C. Munz and H. Tom Dieck), 273
- Catalysis**
- Alkylierung kontra Protolyse: Alternative Synthesewege der Reaktion von μ -Hydroxy-cyclooctadien(1,5)-rhodium(I) Dimer mit Methylderivaten des Ti^{IV} . Synthese, Röntgenkristallstrukturanalyse und heterogen-katalytische Testung des neuartigen oxoverbrückten Titan-Rhodium-Komplexes $\{(\mu_3(\text{Rh}, \text{Rh}, \text{Ti})-\text{O})_4[\text{Rh}^{\text{I}}(\text{COD}-1,5)]_4[\text{Ti}^{\text{IV}}(\text{C}_4\text{H}_9\text{O})_2]\}$ (D. Seltner, J. Pickardt and P. Claus), 131
- Chirality**
- Approaches to water-soluble phosphines. II. Free radical addition reactions of phenylphosphines (K. Heesche-Wagner and T.N. Mitchell), 99
- Metal complexes of new chiral tridentate ligands with N, P and S donors: The crystal structure of $[(S)\text{-Ph}_2\text{POCH}_2\text{CH}(\text{NMe}_2)\text{-CH}_2\text{CH}_2\text{SCH}_3\text{JW}(\text{CO})_3]$ (J.W. Faller, N. Zhang, K.J. Chase, W.K. Musker, A.R. Amaro and C.M. Semko), 175
- Chromium**
- Kinetic method to estimate the reduction potential involving unstable organochromium macrocyclic complex (S. Shi), 139
- Cluster**
- High nuclearity ruthenium cluster compounds containing phosphorus ligands; synthesis and crystal structure of $[\text{Ru}_6(\text{CO})_{11}(\text{P}^t\text{Bu})_4]$, $[\text{Ru}_7(\text{CO})_{14}(\text{P}^t\text{Bu})_4]$, and $[\text{H}_3\text{Ru}_9(\text{CO})_{20}(\mu_7\text{-P})(\text{P}^t\text{Bu})_3]$ (E. Charalambous, L. Heuer, B.F.G. Johnson, J. Lewis, W.-S. Li, M. McPartlin and A.D. Massey), C9
- Metal atoms in the synthesis of metal clusters. VI. Reactivity of cobalt and nickel atoms towards the mononuclear complexes $(\eta^5\text{-Cp}^R)\text{Co}(\text{CO})_2$ ($\text{R} = \text{H}$, Me_4Et , Me_5 , Bu_2 , iPr_2) and $(\eta^5\text{-Cp}^M)\text{Mn}(\text{CO})_3$. Crystal structure and redox behaviour of $[(\eta^6\text{-mesitylene})\text{Co}]_2\text{Co}(\eta^5\text{-Cp}^R)(\mu_3\text{-CO})_2$ ($\text{R} = \text{Me}_5$, Bu_2) (J.J. Schneider, M. Nolte, C. Krüger and R. Boese), 239
- Reactivity of triosmium clusters with substituted triphenylphosphines: the crystal and molecular structure of $[\text{HO}_3\text{S}(\text{CO})_9(2\text{-PNH}_2)]$ (2-PNH_2 = 2-aminophenyldiphenylphosphine) (E.W. Ainscough, A.M. Brodie, S.L. Ingham and J.M. Waters), 229
- Cobalt**
- Metal atoms in the synthesis of metal clusters. VI. Reactivity of cobalt and nickel atoms towards the mononuclear complexes $(\eta^5\text{-Cp}^R)\text{Co}(\text{CO})_2$ ($\text{R} = \text{H}$, Me_4Et , Me_5 , Bu_2 , iPr_2) and $(\eta^5\text{-Cp}^M)\text{Mn}(\text{CO})_3$. Crystal structure and redox behaviour of $[(\eta^6\text{-mesitylene})\text{Co}]_2\text{Co}(\eta^5\text{-Cp}^R)(\mu_3\text{-CO})_2$ ($\text{R} = \text{Me}_5$, Bu_2) (J.J. Schneider, M. Nolte, C. Krüger and R. Boese), 239
- Migration of SnPh_3 from metal to Cp in a cobalt cyclopentadienyl complex: preparation of $[\text{Co}(\text{C}_5\text{H}_3(\text{SnPh}_3)_2)(\text{CO})_2]$ under mild conditions (L. Carlton and B. Maaske), 235
- Crystal structure**
- Bis(tetramethylcyclopentadienyl)gallium(III) chloride, tris(tetramethylcyclopentadienyl)gallium(III) and tris(pentamethylcyclopentadienyl)gallium(III) (H. Schumann, S. Nickel and R. Weimann), 43
- High nuclearity ruthenium cluster compounds containing phosphorus ligands; synthesis and crystal structure of $[\text{Ru}_6(\text{CO})_{11}(\text{P}^t\text{Bu})_4]$, $[\text{Ru}_7(\text{CO})_{14}(\text{P}^t\text{Bu})_4]$, and $[\text{H}_3\text{Ru}_9(\text{CO})_{20}(\mu_7\text{-P})(\text{P}^t\text{Bu})_3]$ (E. Charalambous, L. Heuer, B.F.G. Johnson, J. Lewis, W.-S. Li, M. McPartlin and A.D. Massey), C9
- Synthesis and X-ray structures of mono- and bis-acetonitrile derivatives of the cationic rhodium allyl complex $[(\eta^5\text{-C}_3\text{Me}_3)\text{Re}(\text{CO})_2(\eta^3\text{-C}_3\text{H}_5)]\text{BF}_4^-$ (R.J. Batchelor, F.W.B. Einstein, Y. He and D. Sutton), 183
- Synthesis of the sterically hindered complexes $[\text{M}(\text{CO})_5(\text{CNBR}_2)]$ [$\text{R} = \text{CH}(\text{SiMe}_3)_2$; $\text{M} = \text{Cr}$, Mo , or W]. Crystal structure of $[\text{Cr}(\text{CO})_5(\text{CNBR}_2)]$ (G. Beck, M.F. Lappert and P.B. Hitchcock), 143
- The reaction of alkyl derivatives of yttrium and lutetium with organic disulphides and diselenides: The molecular structure of $\{(\text{C}_5\text{H}_4)_2\text{Y}(\mu\text{-SePh})_2\}_2 \cdot \text{C}_6\text{H}_6$ (I.P. Beletskaya, A.Z. Voskoboinikov, A.K. Shestakova, A.I. Yanovsky, G.K. Fukin, L.N. Zacharov, Y.T. Struchkov and H. Schumann), 121
- The synthesis, fluxional properties and X-ray crystal structure of $[\text{WI}(\text{CO})(\text{C}_4\text{H}_3\text{N}_2\text{S})(\eta^2\text{-MeC}_2\text{Me})_2]$ (where $[\text{C}_4\text{H}_3\text{N}_2\text{S}]^-$ = pyrimidine-2-thionate) (P.K. Baker, P.D. Jackson, M.E. Harman and M.B. Hursthause), 171
- Trimethylantimony(V) diorganomonothiophosphinates: the crystal structure of bis(diphenylmonothiophosphinato)trimethylantimony(V), $\text{Me}_3\text{Sb}(\text{OSPPh}_2)_2$, containing a monodentate monothiophosphinato ligand (C. Silvestru, I. Haiduc, K.H. Ebert, H.J. Breunig and D.B. Sowerby), 113
- Cyanide**
- On polymerization of some heterocyclic five-membered ring donors in the channels of the three-dimensional coordination polymer $[(\text{Me}_3\text{Pb})_3\text{Fe}(\text{CN})_6]_n$ (A.M.A. Ibrahim, T.M. Soliman, S.E.H. Etaiw and R.D. Fischer), 93

Cyclopentadienyl

Bis(tetramethylcyclopentadienyl)gallium(III) chloride, tris(tetramethylcyclopentadienyl)gallium(III) and tris(pentamethylcyclopentadienyl)gallium(III) (H. Schumann, S. Nickel and R. Weimann), 43

Darstellung und Struktur des dimeren η^5 -Cyclopentadienyl-titan-diformats (T. Wöhrle and U. Thewalt), C1

Distortion of cyclopentadienyl rings in η^5 -cyclopentadienyl-palladium complexes: crystal structures of $[Pd(C_5H_5)_2Cl(PMe_2Ph)]$ and $[Pd(C_5H_5)_2(Ph_2PCH_2CH_2PPh_2)PF_6]$ (R.J. Cross, R.W. Hoyle, A.R. Kennedy, L. Manojlović-Muir and K.W. Muir), 265

Metal atoms in the synthesis of metal clusters. VI. Reactivity of cobalt and nickel atoms towards the mononuclear complexes $(\eta^5-Cp^R)Co(CO)_2$ ($R = H, Me_4Et, Me_5, ^1Bu_2, ^1Pr_2$) and $(\eta^5-Cp^Me)Mn(CO)_3$. Crystal structure and redox behaviour of $[(\eta^6\text{-mesitylene})Co]_2Co(\eta^5-Cp^R)(\mu_3\text{-CO})_2$ ($R = Me_5, ^1Bu_2$) (J.J. Schneider, M. Nolte, C. Krüger and R. Boese), 239

The reaction of alkyl derivatives of yttrium and lutetium with organic disulphides and diselenides: The molecular structure of $((^1BuC_5H_4)_2Y(\mu\text{-SePh}))_2 \cdot C_6H_6$ (I.P. Beletskaya, A.Z. Voskoboinikov, A.K. Shestakova, A.I. Yanovsky, G.K. Fukin, L.N. Zacharov, Y.T. Struchkov and H. Schumann), 121

Deuteride

Nuclear magnetic resonance and mass spectra of organomercury hydrides and deuterides, Part II (P.J. Craig, H. Garraud, S.H. Laurie, D. Mennie and G.H. Stojak), 7

Diazine

Nuclear magnetic resonance and structural investigations of the chemistry of organotin compounds. II. ^{119}Sn NMR investigations of the pyrazine adducts of dialkytin(IV) dihalides (J. McManus, D. Cunningham and M.J. Hynes), 87

Dithiolate

Dicyclohexylthiophosphinates and diethyldithiophosphinates of methylmercury(II) and phenylmercury(II): crystal and molecular structure of $[HgPh(S_2PEt_2)_2]$ (J.S. Casas, A. Castañeiras, A. Sánchez, J. Sordo and E.M. Vázquez-López), 1

Dithiophosphinate

Dicyclohexylthiophosphinates and diethyldithiophosphinates of methylmercury(II) and phenylmercury(II): crystal and molecular structure of $[HgPh(S_2PEt_2)_2]$ (J.S. Casas, A. Castañeiras, A. Sánchez, J. Sordo and E.M. Vázquez-López), 1

Electrochemistry

Electrochemically induced aromatic nucleophilic substitution with $(\eta^5-C_5H_5)Fe(CO)_2^-$ and $(\eta^5-C_5H_5)Mo(CO)_3^-$ anions (T.V. Magdesieva, I.I. Kukhareva, G.A. Artamkina, K.P. Butin and I.P. Beletskaya), 213

Synthesis, electrochemical and spectroelectrochemical studies of metal-free 2,9,16,23-tetraferrocenylphthalocyanine (Z. Jin, K. Nolan, C.R. McArthur, A.B.P. Lever and C.C. Leznoff), 205

Electron transfer

Kinetic method to estimate the reduction potential involving unstable organochromium macrocyclic complex (S. Shi), 139

Ferrocene

Synthesis, electrochemical and spectroelectrochemical studies of metal-free 2,9,16,23-tetraferrocenylphthalocyanine (Z. Jin, K. Nolan, C.R. McArthur, A.B.P. Lever and C.C. Leznoff), 205

The reaction of 1,l'-bis-(chlorocarbonyl)ferrocene with tetrathia-diaza-18-crown-6 (C.D. Hall, I.P. Danks, P.D. Beer, S.Y.F. Chu and S.C. Nyburg), 193

Fluxional properties

The synthesis, fluxional properties and X-ray crystal structure of $[W(CO)(C_4H_3N_2S)(\eta^2\text{-MeC}_2Me)_2]$ (where $[C_4H_3N_2S]^- =$ pyrimidine-2-thionate) (P.K. Baker, P.D. Jackson, M.E. Harman and M.B. Hursthause), 171

Gallium

Bis(tetramethylcyclopentadienyl)gallium(III) chloride, tris(tetramethylcyclopentadienyl)gallium(III) and tris(pentamethylcyclopentadienyl)gallium(III) (H. Schumann, S. Nickel and R. Weimann), 43

Group 6

Synthesis of the sterically hindered complexes $[M(CO)_5(CNBR_2)]$ [$R = CH(SiMe_3)_2$; $M = Cr, Mo, or W$]. Crystal structure of $[Cr(CO)_5(CNBR_2)]$ (G. Beck, M.F. Lappert and P.B. Hitchcock), 143

Heterocycles

Synthesis and characterization of triarylborhiins, $Ar_3B_3S_3$ ($Ar = 4\text{-MeC}_6H_4, 3\text{-MeC}_6H_4, 2\text{-MeC}_6H_4, 4\text{-EtC}_6H_4$, and $3,5\text{-Me}_2C_6H_3$) (M.A. Beckett, P.R. Minton and B. Werschun), 37

Heterometallics

Alkylierung kontra Protolyse: Alternative Synthesewege der Reaktion von μ -Hydroxy-cyclooctadien(1,5)-rhodium(I) Dimer mit Methylderivaten des Ti^{IV} . Synthese, Röntgenkristallstrukturanalyse und heterogen-katalytische Testung des neuartigen oxoverbrückten Titan-Rhodium-Komplexes $\{(\mu_3(Rh,Rh,Ti)\text{-O})_4[Rh^I(COD-1,5)]_4[Ti^{IV}(C_4H_9O)_2]\}$ (D. Selent, J. Pickardt and P. Claus), 131

Homogeneous co-pyrolysis

Laser powered homogeneous decomposition of tetramethylcyclotetrasiloxane. A source for hydroxy(methyl)silylene (J. Pola, D. Čukanová, R. Ponec and W. Stanczyk), 49

Hydride

Nuclear magnetic resonance and mass spectra of organomercury hydrides and deuterides, Part II (P.J. Craig, H. Garraud, S.H. Laurie, D. Mennie and G.H. Stojak), 7

Hydroformylation

The donor properties of 1,8-bis(diphenylphosphino)-3,6-dioxaocetane towards cationic rhodium(I) salts revisited. X-Ray structural characterization of a quadridentate mode of bonding (M. Alvarez, N. Lugan and R. Mathieu), 249

Hydrogenation

Alkylierung kontra Protolyse: Alternative Synthesewege der Reaktion von μ -Hydroxy-cyclooctadien(1,5)-rhodium(I) Dimer mit Methylderivaten des Ti^{IV} . Synthese, Röntgenkristallstrukturanalyse und heterogen-katalytische Testung des neuartigen oxoverbrückten Titan-Rhodium-Komplexes $\{(\mu_3(Rh,Rh,Ti)\text{-O})_4[Rh^I(COD-1,5)]_4[Ti^{IV}(C_4H_9O)_2]\}$ (D. Selent, J. Pickardt and P. Claus), 131

The donor properties of 1,8-bis(diphenylphosphino)-3,6-dioxaocetane towards cationic rhodium(I) salts revisited. X-Ray structural characterization of a quadridentate mode of bonding (M. Alvarez, N. Lugan and R. Mathieu), 249

Imine

Coordination of an amino-phosphino macrocycle with $(\eta^5\text{-cyclopentadienyl})$ - and $(\eta^5\text{-pentamethylcyclopentadienyl})$ -iron complexes (C.-Y. Liu, M.-C. Cheng, S.-M. Peng and S.-T. Liu), 199

Intramolecular coordination

Transmetallation reaction of Schiff-base-type arylmercury compounds with 4-ethoxyphenyltellurium(IV) trichloride and the crystal structure of (4-ethoxyphenyl)(2-benzylideneamino-5-methylphenyl)tellurium(IV) dichloride (Y. Wu, K. Ding, Y. Wang, Y. Zhu and L. Yang), 13

Iodide

1,4-Diphenylbutadiyne complexes of tungsten(II) (T. Ajayi-Obe, E.M. Armstrong, P.K. Baker and S. Prakash), 165

The synthesis, fluxional properties and X-ray crystal structure of $[W(CO)(C_4H_3N_2S)(\eta^2-MeC_2Me)_2]$ (where $[C_4H_3N_2S]^-$ = pyrimidine-2-thionate) (P.K. Baker, P.D. Jackson, M.E. Harman and M.B. Hursthouse), 171

Iridium

An unusual trimerization reaction of an alkyne on iridium (T.X. Le, H.E. Selau and J.S. Merola), 257

Iron

Coordination of an amino-phosphino macrocycle with (η^5 -cyclopentadienyl)- and (η^5 -pentamethylcyclopentadienyl)-iron complexes (C.-Y. Liu, M.-C. Cheng, S.-M. Peng and S.-T. Liu), 199

Eine einfache Synthese von Tripod-Liganden $H_3CC(CH_2PAR_2)_3$: Anwendungsbreite und Komplexchemie (A. Muth, O. Walter, G. Huttner, A. Asam, L. Zsolnai and Ch. Emmerich), 149

Electrochemically induced aromatic nucleophilic substitution with $[(\eta^5-C_5H_5)Fe(CO)_2]^-$ and $[(\eta^5-C_5H_5)Mo(CO)_3]^-$ anions (T.V. Magdesieva, I.I. Kukhareva, G.A. Artamkina, K.P. Butin and I.P. Beletskaya), 213

On polymerization of some heterocyclic five-membered ring donors in the channels of the three-dimensional coordination polymer $[(Me_3Pb)_3Fe(CN)_6]_n$ (A.M.A. Ibrahim, T.M. Soliman, S.E.H. Etaiw and R.D. Fischer), 93

Synthesis, electrochemical and spectroelectrochemical studies of metal-free 2,9,16,23-tetraferrocenylphthalocyanine (Z. Jin, K. Nolan, C.R. McArthur, A.B.P. Lever and C.C. Leznoff), 205

The reaction of 1,1'-bis-(chlorocarbonyl)ferrocene with tetrathiadiza-18-crown-6 (C.D. Hall, I.P. Danks, P.D. Beer, S.Y.F. Chu and S.C. Nyburg), 193

Isocyanide

Synthesis of the sterically hindered complexes $[M(CO)_5(CNBR_2)]$ [$R = CH(SiMe_3)_2$; $M = Cr$, Mo, or W]. Crystal structure of $[Cr(CO)_5(CNBR_2)]$ (G. Beck, M.F. Lappert and P.B. Hitchcock), 143

Kinetics

Kinetic method to estimate the reduction potential involving unstable organochromium macrocyclic complex (S. Shi), 139

Laser

Laser powered homogeneous decomposition of tetramethylcyclotetrasiloxane. A source for hydroxy(methyl)silylene (J. Pola, D. Čukanová, R. Ponec and W. Stanczyk), 49

Lead

On polymerization of some heterocyclic five-membered ring donors in the channels of the three-dimensional coordination polymer $[(Me_3Pb)_3Fe(CN)_6]_n$ (A.M.A. Ibrahim, T.M. Soliman, S.E.H. Etaiw and R.D. Fischer), 93

Lutetium

The reaction of alkyl derivatives of yttrium and lutetium with organic disulphides and diselenides: The molecular structure of $(^tBuC_5H_4)_2Y(\mu-SePh)_2 \cdot C_6H_6$ (I.P. Beletskaya, A.Z. Voskoboinikov, A.K. Shestakova, A.I. Yanovsky, G.K. Fukin, L.N. Zacharov, Y.T. Struchkov and H. Schumann), 121

Macrocycle

Coordination of an amino-phosphino macrocycle with (η^5 -cyclopentadienyl)- and (η^5 -pentamethylcyclopentadienyl)-iron complexes (C.-Y. Liu, M.-C. Cheng, S.-M. Peng and S.-T. Liu), 199

Kinetic method to estimate the reduction potential involving unstable organochromium macrocyclic complex (S. Shi), 139

Mass spectrometry

Nuclear magnetic resonance and mass spectra of organomercury hydrides and deuterides, Part II (P.J. Craig, H. Garraud, S.H. Laurie, D. Mennie and G.H. Stojak), 7

Mercury

Dicyclohexyldithiophosphinates and diethyldithiophosphinates of methylmercury(II) and phenylmercury(II): crystal and molecular structure of $[HgPh(S_2PEt_2)_2]$ (J.S. Casas, A. Castañeras, A. Sánchez, J. Sordo and E.M. Vázquez-López), 1

Nuclear magnetic resonance and mass spectra of organomercury hydrides and deuterides, Part II (P.J. Craig, H. Garraud, S.H. Laurie, D. Mennie and G.H. Stojak), 7

Transmetallation reaction of Schiff-base-type arylmercury compounds with 4-ethoxyphenyltellurium(IV) trichloride and the crystal structure of (4-ethoxyphenyl)(2-benzylideneamino-5-methylphenyl)tellurium(IV) dichloride (Y. Wu, K. Ding, Y. Wang, Y. Zhu and L. Yang), 13

Metal atom chemistry

Metal atoms in the synthesis of metal clusters. VI. Reactivity of cobalt and nickel atoms towards the mononuclear complexes $(\eta^5-Cp^R)Co(CO)_2$ ($R = H$, Me₄Et, Me₅, ^tBu₂, ^tPr₂) and $(\eta^5-Cp^{Me})Mn(CO)_3$. Crystal structure and redox behaviour of $[(\eta^6\text{-mesitylene})Co]_2Co(\eta^5-Cp^R)(\mu_3-CO)_2$ ($R = Me_5, ^tB_2$) (J.J. Schneider, M. Nolte, C. Krüger and R. Boese), 239

Metallacycle

An unusual trimerization reaction of an alkyne on iridium (T.X. Le, H.E. Selau and J.S. Merola), 257

Die palladiumkatalysierte Cocyclisierung von Allenen mit elektronenarmen Alkinen. Einige Untersuchungen zur Kupplung von Allenderivaten mit Acetylendicarbonsäuredimethylester an Palladium und Platin (C. Stephan, C. Munz and H. Tom Dieck), 273

Metallocenes

Bis(tetramethylcyclopentadienyl)gallium(III) chloride, tris(tetramethylcyclopentadienyl)gallium(III) and tris(pentamethylcyclopentadienyl)gallium(II) (H. Schumann, S. Nickel and R. Weimann), 43

Zu Reaktionen disubstituierter Butadiene mit Titanocen-Komplexen (U. Rosenthal, A. Ohff, A. Tillack, W. Baumann and H. Görls), C4

Metal vapour synthesis

Metal atoms in the synthesis of metal clusters. VI. Reactivity of cobalt and nickel atoms towards the mononuclear complexes $(\eta^5-Cp^R)Co(CO)_2$ ($R = H$, Me₄Et, Me₅, ^tBu₂, ^tPr₂) and $(\eta^5-Cp^{Me})Mn(CO)_3$. Crystal structure and redox behaviour of $[(\eta^6\text{-mesitylene})Co]_2Co(\eta^5-Cp^R)(\mu_3-CO)_2$ ($R = Me_5, ^tB_2$) (J.J. Schneider, M. Nolte, C. Krüger and R. Boese), 239

Methyl

Dicyclohexyldithiophosphinates and diethyldithiophosphinates of methylmercury(II) and phenylmercury(II): crystal and molecular structure of $[HgPh(S_2PEt_2)_2]$ (J.S. Casas, A. Castañeras, A. Sánchez, J. Sordo and E.M. Vázquez-López), 1

Laser powered homogeneous decomposition of tetramethylcyclotetrasiloxane. A source for hydroxy(methyl)silylene (J. Pola, D. Čukanová, R. Ponec and W. Stanczyk), 49

MOCVD

Bis(tetramethylcyclopentadienyl)gallium(III) chloride, tris(tetramethylcyclopentadienyl)gallium(III) and tris(pentamethyl-

- cyclopentadienylgallium(III) (H. Schumann, S. Nickel and R. Weimann), 43**
- Molybdenum**
- Eine einfache Synthese von Tripod-Liganden $H_3CC(CH_2PAr_2)_3$: Anwendungsbreite und Komplexchemie (A. Muth, O. Walter, G. Huttner, A. Asam, L. Zsolnai and Ch. Emmerich), 149
- Electrochemically induced aromatic nucleophilic substitution with $[(\eta^5-C_5H_5)Fe(CO)_2]^-$ and $[(\eta^5-C_5H_5)Mo(CO)_3]^-$ anions (T.V. Magdesieva, I.I. Kukhareva, G.A. Artamkina, K.P. Butin and I.P. Beletskaya), 213
- Metal complexes of new chiral tridentate ligands with N, P and S donors: The crystal structure of $[(S)-Ph_2POCH_2CH-(NMe_2)CH_2CH_2SCH_3]W(CO)_3$ (J.W. Faller, N. Zhang, K.J. Chase, W.K. Musker, A.R. Amaro and C.M. Semko), 175
- Monothiophosphinate**
- Trimethylantimony(V) diorganomonothiophosphinates: the crystal structure of bis(diphenylmonothiophosphinato)trimethylantimony(V), $Me_3Sb(OSPPh_2)_2$, containing a monodentate monothiophosphinato ligand (C. Silvestru, I. Haiduc, K.H. Ebert, H.J. Breunig and D.B. Sowerby), 113
- Nickel**
- Metal atoms in the synthesis of metal clusters. VI. Reactivity of cobalt and nickel atoms towards the mononuclear complexes $(\eta^5-Cp^R)Co(CO)_2$ ($R = H, Me_4Et, Me_5, ^1Bu_2, ^1Pr_2$) and $(\eta^5-Cp^Me)Mn(CO)_3$. Crystal structure and redox behaviour of $[(\eta^6-mesitylene)Co_2Co(\eta^5-Cp^R)(\mu_3-CO)_2]$ ($R = Me_5, ^1Bu_2$) (J.J. Schneider, M. Nolte, C. Krüger and R. Boese), 239
- Nitrogen**
- An evaluation of the rotational barrier about the B-N bond of 1-aminoborepins (A.J. Ashe III, W. Klein and R. Rousseau), 21
- Nuclear magnetic resonance**
- An evaluation of the rotational barrier about the B-N bond of 1-aminoborepins (A.J. Ashe III, W. Klein and R. Rousseau), 21
- Nuclear magnetic resonance and mass spectra of organomercury hydrides and deuterides, Part II (P.J. Craig, H. Garraud, S.H. Laurie, D. Mennie and G.H. Stojak), 7
- Nuclear magnetic resonance and structural investigations of the chemistry of organotin compounds. II. ^{119}Sn NMR investigations of the pyrazine adducts of dialkytin(IV) dihalides (J. McManus, D. Cunningham and M.J. Hynes), 87
- Syntheses, solution and solid state $^{31}P(^1H)$ NMR studies, of the first symmetrically-bridging μ -perpendicular phosphaalkyne dirhodium(I) complexes $[Rh_2X_2(\mu-dppm)_2(\mu-RCP)]$ ($R = ^1Bu, Ad; X = Cl$ or Br) (S.I. Al-Resayes, C. Jones, M.J. Maah and J.F. Nixon), 107
- Synthesis and characterization of triarylborathiins, $Ar_3B_3S_3$ ($Ar = 4-MeC_6H_4, 3-MeC_6H_4, 2-MeC_6H_4, 4-EtC_6H_4$, and $3,5-Me_2C_6H_3$) (M.A. Beckett, P.R. Minton and B. Werschbun), 37
- Synthesis and X-ray structures of mono- and bis-acetonitrile derivatives of the cationic rhodium allyl complex $[(\eta^5-C_5Me_5)Re(CO)_2(\eta^3-C_3H_5)][BF_4]$ (R.J. Batchelor, F.W.B. Einstein, Y. He and D. Sutton), 183
- Osmium**
- Synthesis of $[M(\eta^2-C_2Ph_2)XCO(P^iPr_3)_2]$ ($M = Os$ or Ru) and X-ray crystal structure of the osmium derivative (J. Espuelas, M.A. Esteruelas, F.J. Lahoz, A.M. López, L.A. Oro and C. Valero), 223
- Palladium**
- Die palladiumkatalysierte Cocyclisierung von Allenen mit elektronenarmen Alkinen. Einige Untersuchungen zur Kupplung von Allenderivaten mit Acetylendicarbonsäuredimethylester an Palladium und Platin (C. Stephan, C. Munz and H. Tom Dieck), 273
- Distortion of cyclopentadienyl rings in η^5 -cyclopentadienyl-palladium complexes: crystal structures of $[Pd(C_5H_5)Cl(PMe_2Ph)]$ and $[Pd(C_5H_5)(Ph_2PCH_2CH_2PPh_2)][PF_6]$ (R.J. Cross, R.W. Hoyle, A.R. Kennedy, L. Manojlović-Muir and K.W. Muir), 265
- Metal complexes of new chiral tridentate ligands with N, P and S donors: The crystal structure of $[(S)-Ph_2POCH_2CH-(NMe_2)CH_2CH_2SCH_3]W(CO)_3$ (J.W. Faller, N. Zhang, K.J. Chase, W.K. Musker, A.R. Amaro and C.M. Semko), 175
- Une synthèse originale et rapide de (méthyldiethoxsilyl)benzènes fonctionnels (S. Cros, B. Bennetau, J. Dunoguès and P. Babin), 69
- Pentamethylcyclopentadienyl**
- Synthesis and X-ray structures of mono- and bis-acetonitrile derivatives of the cationic rhodium allyl complex $[(\eta^5-C_5Me_5)Re(CO)_2(\eta^3-C_3H_5)][BF_4]$ (R.J. Batchelor, F.W.B. Einstein, Y. He and D. Sutton), 183
- Phenyl**
- Dicyclohexylthiophosphinates and diethyldithiophosphinates of methylmercury(II) and phenylmercury(II): crystal and molecular structure of $[HgPh(S_2PEt_2)]$ (J.S. Casas, A. Castiñeiras, A. Sánchez, J. Sordo and E.M. Vázquez-López), 1
- Phosphine**
- Approaches to water-soluble phosphines. II. Free radical addition reactions of phenylphosphines (K. Heesche-Wagner and T.N. Mitchell), 99
- Coordination of an amino-phosphino macrocycle with (η^5 -cyclopentadienyl)- and (η^5 -pentamethylcyclopentadienyl)-iron complexes (C.-Y. Liu, M.-C. Cheng, S.-M. Peng and S.-T. Liu), 199
- Reactivity of triosmium clusters with substituted triphenylphosphines: the crystal and molecular structure of $[HOs_3(CO)_9(2-PNH_2)]$ ($2-PNH_2 = 2$ -aminophenyl diphenylphosphine) (E.W. Ainscough, A.M. Brodie, S.L. Ingham and J.M. Waters), 229
- Phosphine ether**
- The donor properties of 1,8-bis(diphenylphosphino)-3,6-dioxaocetane towards cationic rhodium(I) salts revisited. X-Ray structural characterization of a quadridentate mode of bonding (M. Alvarez, N. Lugan and R. Mathieu), 249
- Phosphorus**
- Alkylierung kontra Protolyse: Alternative Synthesewege der Reaktion von μ -Hydroxy-cyclooctadien(1,5)-rhodium(I) Dimer mit Methylderivaten des Ti^{IV} . Synthese, Röntgenkristallstrukturanalyse und heterogen-katalytische Testung des neuartigen oxoverbrückten Titan-Rhodium-Komplexes $((\mu_3(Rh,Rh,Ti)-O)_4[Rh^I(COD-1,5)]_4[Ti^{IV}(^1C_4H_9O)_2]_2$ (D. Selenit, J. Pickardt and P. Claus), 131
- Eine einfache Synthese von Tripod-Liganden $H_3CC(CH_2PAr_2)_3$: Anwendungsbreite und Komplexchemie (A. Muth, O. Walter, G. Huttner, A. Asam, L. Zsolnai and Ch. Emmerich), 149
- High nuclearity ruthenium cluster compounds containing phosphorus ligands: synthesis and crystal structure of $[Ru_6(CO)_{11}(P^tBu)_4]$, $[Ru_7(CO)_{14}(P^tBu)_4]$, and $[H_3Ru_9(CO)_{20}(\mu_7-PX^tBu)_3]$ (E. Charalambous, L. Heuer, B.F.G. Johnson, J. Lewis, W.-S. Li, M. McPartlin and A.D. Massey), C9
- Syntheses, solution and solid state $^{31}P(^1H)$ NMR studies, of the first symmetrically-bridging μ -perpendicular phosphaalkyne dirhodium(I) complexes $[Rh_2X_2(\mu-dppm)_2(\mu-RCP)]$ ($R = ^1$

- Bu, Ad; X = Cl or Br) (S.I. Al-Resayes, C. Jones, M.J. Maah and J.F. Nixon), 107
- Phthalocyanine**
- Synthesis, electrochemical and spectroelectrochemical studies of metal-free 2,9,16,23-tetraferrocenylphthalocyanine (Z. Jin, K. Nolan, C.R. McArthur, A.B.P. Lever and C.C. Leznoff), 205
- Platinum**
- Die palladiumkatalysierte Cycloisierung von Allenen mit elektronenarmen Alkinen. Einige Untersuchungen zur Kupplung von Allenderivaten mit Acetylendicarbonsäuredimethylester an Palladium und Platin (C. Stephan, C. Munz and H. Tom Dieck), 273
- Synthesis and characterization of binuclear arylthiolato- and phenylselenolato-bridged organoplatinum(II) complexes: crystal structure of $[\text{Pt}_2\text{Ph}_2(\mu\text{-SPh})_2(\text{PMe}_2\text{Ph})_2]$ (V.K. Jain, S. Kannan, R.J. Butcher and J.P. Jasinski), 285
- Synthesis and characterization of organoplatinum(II) dithiolate complexes of the type $[\text{PtAr}(\text{S}\text{S})(\text{PMePh}_2)]$ (V.K. Jain and S. Chaudhury), 279
- Polymer**
- On polymerization of some heterocyclic five-membered ring donors in the channels of the three-dimensional coordination polymer $[(\text{Me}_3\text{Pb})_3\text{Fe}(\text{CN})_6]_n$ (A.M.A. Ibrahim, T.M. Soliman, S.E.H. Etaiw and R.D. Fischer), 93
- Polymeric organosilicon systems. XVIII. Synthesis and photochemical properties of poly[2,5-(disilylene)thienylenes] (J. Ohshita, D. Kanaya and M. Ishikawa), 55
- Potassium**
- Synthesis and characterization of organoplatinum(II) dithiolate complexes of the type $[\text{PtAr}(\text{S}\text{S})(\text{PMePh}_2)]$ (V.K. Jain and S. Chaudhury), 279
- Pyrazine**
- Nuclear magnetic resonance and structural investigations of the chemistry of organotin compounds. II. ^{119}Sn NMR investigations of the pyrazine adducts of dialkytin(IV) dihalides (J. McManus, D. Cunningham and M.J. Hynes), 87
- Pyrimidine-2-thione**
- The synthesis, fluxional properties and X-ray crystal structure of $[\text{WI}(\text{CO})(\text{C}_4\text{H}_3\text{N}_2\text{S})(\eta^2\text{-MeC}_2\text{Me})_2]$ (where $[\text{C}_4\text{H}_3\text{N}_2\text{S}]^-$ = pyrimidine-2-thionate) (P.K. Baker, P.D. Jackson, M.E. Harman and M.B. Hursthouse), 171
- Pyrrole**
- On polymerization of some heterocyclic five-membered ring donors in the channels of the three-dimensional coordination polymer $[(\text{Me}_3\text{Pb})_3\text{Fe}(\text{CN})_6]_n$ (A.M.A. Ibrahim, T.M. Soliman, S.E.H. Etaiw and R.D. Fischer), 93
- Radical addition**
- Approaches to water-soluble phosphines. II. Free radical addition reactions of phenylphosphines (K. Heesche-Wagner and T.N. Mitchell), 99
- Rhenium**
- Synthesis and X-ray structures of mono- and bis-acetonitrile derivatives of the cationic rhenium allyl complex $[(\eta^5\text{-C}_5\text{Me}_5)\text{Re}(\text{CO})_2(\eta^3\text{-C}_3\text{H}_5)](\text{BF}_4^-)$ (R.J. Batchelor, F.W.B. Einstein, Y. He and D. Sutton), 183
- Rhodium**
- Alkylierung kontra Protolyse: Alternative Synthesewege der Reaktion von μ -Hydroxy-cyclooctadien(1,5)-rhodium(I) Dimer mit Methylderivaten des Ti^{IV}. Synthese, Röntgenkristallstrukturanalyse und heterogen-katalytische Testung des neuartigen oxoverbrückten Titan-Rhodium-Komplexes $\{(\mu_3(\text{Rh}, \text{Rh}, \text{Ti})-\text{O})_4[\text{Rh}^I(\text{COD}-1,5)]_4[\text{Ti}^{\text{IV}}(\text{C}_4\text{H}_9\text{O})_2]\}$ (D. Selent, J. Pickardt and P. Claus), 131
- Syntheses, solution and solid state $^{31}\text{P}[^1\text{H}]$ NMR studies, of the first symmetrically-bridging μ -perpendicular phosphaalkyne dirhodium(I) complexes $[\text{Rh}_2\text{X}_2(\mu\text{-dppm})_2(\mu\text{-RCP})]$ ($\text{R} = ^1\text{Bu, Ad}; \text{X} = \text{Cl or Br}$) (S.I. Al-Resayes, C. Jones, M.J. Maah and J.F. Nixon), 107
- The donor properties of 1,8-bis(diphenylphosphino)-3,6-dioxaoctane towards cationic rhodium(I) salts revisited. X-Ray structural characterization of a quadridentate mode of bonding (M. Alvarez, N. Lughan and R. Mathieu), 249
- Ruthenium**
- High nuclearity ruthenium cluster compounds containing phosphorus ligands; synthesis and crystal structure of $[\text{Ru}_6(\text{CO})_{11}(\text{P}^1\text{Bu})_4]$, $[\text{Ru}_7(\text{CO})_{14}(\text{P}^1\text{Bu})_4]$, and $[\text{H}_3\text{Ru}_9(\text{CO})_{20}(\mu_7\text{PX}^1\text{Bu})_3]$ (E. Charalambous, L. Heuer, B.F.G. Johnson, J. Lewis, W.-S. Li, M. McPartlin and A.D. Massey), C9
- Synthesis of $[\text{M}(\eta^2\text{-C}_2\text{Ph}_2)(\text{CO})(\text{P}^1\text{Pr}_3)_2]$ ($\text{M} = \text{Os or Ru}$) and X-ray crystal structure of the osmium derivative (J. Espuelas, M.A. Esteruelas, F.J. Lahoz, A.M. López, L.A. Oro and C. Valero), 223
- Selenium**
- The reaction of alkyl derivatives of yttrium and lutetium with organic disulphides and diselenides: The molecular structure of $\{(\text{BuC}_5\text{H}_4)_2\text{Y}(\mu\text{-SePh})_2\cdot\text{C}_6\text{H}_6$ (I.P. Beletskaya, A.Z. Voskoboinikov, A.K. Shestakova, A.I. Yanovsky, G.K. Fukin, L.N. Zacharov, Y.T. Struchkov and H. Schumann), 121
- Selenolate**
- Synthesis and characterization of binuclear arylthiolato- and phenylselenolato-bridged organoplatinum(II) complexes: crystal structure of $[\text{Pt}_2\text{Ph}_2(\mu\text{-SPh})_2(\text{PMe}_2\text{Ph})_2]$ (V.K. Jain, S. Kannan, R.J. Butcher and J.P. Jasinski), 285
- Silicon**
- Polymeric organosilicon systems. XVIII. Synthesis and photochemical properties of poly[2,5-(disilylene)thienylenes] (J. Ohshita, D. Kanaya and M. Ishikawa), 55
- Reaktionen der Enthalogenierungsprodukte von Dichlor(diisopropylamino)boran mit Olefinen in *n*-Hexan (W. Maringgele, A. Heine, M. Noltemeyer and A. Meller), 25
- Synthesis of the sterically hindered complexes $[\text{M}(\text{CO})_5(\text{CNBR}_2)]$ [$\text{R} = \text{CH}(\text{SiMe}_3)_2$; $\text{M} = \text{Cr, Mo, or W}$]. Crystal structure of $[\text{Cr}(\text{CO})_5(\text{CNBR}_2)]$ (G. Beck, M.F. Lappert and P.B. Hitchcock), 143
- Siloxane**
- Laser powered homogeneous decomposition of tetramethylcyclotetrasiloxane. A source for hydroxy(methyl)silylene (J. Pola, D. Čukanová, R. Ponec and W. Stanczyk), 49
- Silyl**
- Une synthèse originale et rapide de (méthylidéthoxysilyl)benzènes fonctionnels (S. Cros, B. Bennetau, J. Dunoguès and P. Babin), 69
- Zur Funktionalisierung oligomerer und polymerer Silylalkine (C. Tretnér, B. Zobel, R. Hummeltenberg and W. Uhlig), 63
- Silylene**
- Laser powered homogeneous decomposition of tetramethylcyclotetrasiloxane. A source for hydroxy(methyl)silylene (J. Pola, D. Čukanová, R. Ponec and W. Stanczyk), 49
- Sodium**
- Synthesis and characterization of organoplatinum(II) dithiolate complexes of the type $[\text{PtAr}(\text{S}\text{S})(\text{PMePh}_2)]$ (V.K. Jain and S. Chaudhury), 279
- Spectroelectrochemistry**
- Synthesis, electrochemical and spectroelectrochemical studies of metal-free 2,9,16,23-tetraferrocenylphthalocyanine (Z. Jin, K. Nolan, C.R. McArthur, A.B.P. Lever and C.C. Leznoff), 205

Sulfoxide

Sulphur(IV) compounds as ligands. XX. Adduct formation and ring opening of thiiirane-1-oxide with organotin halides. Crystal structure of [(4-FC₆H₄)₂SnCl₂(C₂H₄SO)₂] (W.A. Schenk, A. Khadra and C. Burschka), 75

Sulfur

Sulphur(IV) compounds as ligands. XX. Adduct formation and ring opening of thiiirane-1-oxide with organotin halides. Crystal structure of [(4-FC₆H₄)₂SnCl₂(C₂H₄SO)₂] (W.A. Schenk, A. Khadra and C. Burschka), 75

Synthesis and characterization of triarylborathiins, Ar₃B₃S₃ (Ar = 4-MeC₆H₄, 3-MeC₆H₄, 2-MeC₆H₄, 4-EtC₆H₄, and 3,5-Me₂C₆H₃) (M.A. Beckett, P.R. Minton and B. Werschkun), 37

Sulphur

The reaction of alkyl derivatives of yttrium and lutetium with organic disulphides and diselenides: The molecular structure of {('BuC₃H₄)₂Y(μ-SePh)}₂ · C₆H₆ (I.P. Beletskaya, A.Z. Vaskoboynikov, A.K. Shestakova, A.I. Yanovsky, G.K. Fukin, L.N. Zacharov, Y.T. Struchkov and H. Schumann), 121

Tellurium

Aspects of the chemistry of diorgano tritellurides (A.G. Maslakov, M.R. Greaves, W.R. McWhinnie and S.L.W. McWhinnie), 125

Transmetallation reaction of Schiff-base-type arylmercury compounds with 4-ethoxyphenyltellurium(IV) trichloride and the crystal structure of (4-ethoxyphenyl)(2-benzylideneamino-5-methylphenyl)tellurium(IV) dichloride (Y. Wu, K. Ding, Y. Wang, Y. Zhu and L. Yang), 13

Thia-aza-crown

The reaction of 1,1'-bis-(chlorocarbonyl)ferrocene with tetrathia-diaza-18-crown-6 (C.D. Hall, I.P. Danks, P.D. Beer, S.Y.F. Chu and S.C. Nyburg), 193

Thiolate

Synthesis and characterization of binuclear arylthiolato- and phenylselenolato-bridged organoplatinum(II) complexes: crystal structure of [Pt₂Ph₂(μ-SPh)₂(PMe₂Ph)₂] (V.K. Jain, S. Kannan, R.J. Butcher and J.P. Jasinski), 285

Tin

Migration of SnPh₃ from metal to Cp in a cobalt cyclopentadienyl complex: preparation of [Co(C₅H₃(SnPh₃)₂)(CO)₂] under mild conditions (L. Carlton and B. Maaske), 235

Nuclear magnetic resonance and structural investigations of the chemistry of organotin compounds. II. ¹¹⁹Sn NMR investigations of the pyrazine adducts of dialkyltin(IV) dihalides (J. McManus, D. Cunningham and M.J. Hynes), 87

Sulphur(IV) compounds as ligands. XX. Adduct formation and ring opening of thiiirane-1-oxide with organotin halides. Crystal structure of [(4-FC₆H₄)₂SnCl₂(C₂H₄SO)₂] (W.A. Schenk, A. Khadra and C. Burschka), 75

Titanium

Alkylierung kontra Protolyse: Alternative Synthesewege der Reaktion von μ-Hydroxy-cyclooctadien(1,5)-rhodium(I) Dimer mit Methylderivaten des Ti^{IV}. Synthese, Röntgenkristallstrukturanalyse und heterogen-katalytische Testung des neuartigen oxoverbrückten Titan-Rhodium-Komplexes {((μ₃(Rh,Rh,Ti)-O)₄[Rh^I(COD-1,5)]₄Ti^{IV}(¹³C₄H₉O)₂)₂} (D. Selent, J. Pickardt and P. Claus), 131

Darstellung und Struktur des dimeren η⁵-Cyclopentadienyl-titan-diformiats (T. Wöhrlé and U. Thewalt), C1

Zu Reaktionen disubstituierter Butadiine mit Titanocen-Komplexen (U. Rosenthal, A. Ohff, A. Tillack, W. Baumann and H. Görts), C4

Transmetallation

Transmetallation reaction of Schiff-base-type arylmercury compounds with 4-ethoxyphenyltellurium(IV) trichloride and the crystal structure of (4-ethoxyphenyl)(2-benzylideneamino-5-methylphenyl)tellurium(IV) dichloride (Y. Wu, K. Ding, Y. Wang, Y. Zhu and L. Yang), 13

Triflate

Zur Funktionalisierung oligomerer und polymerer Silylalkine (C. Tretnér, B. Zobel, R. Hummeltenberg and W. Uhlig), 63

Trimethylsilyl

Zu Reaktionen disubstituierter Butadiine mit Titanocen-Komplexen (U. Rosenthal, A. Ohff, A. Tillack, W. Baumann and H. Görts), C4

Triosmium

Reactivity of triosmium clusters with substituted triphenylphosphines: the crystal and molecular structure of [HOs₃(CO)₉(2-PNH)] (2-PNH₂ = 2-aminophenyldiphenylphosphine) (E.W. Ainscough, A.M. Brodie, S.L. Ingham and J.M. Waters), 229

Tritelluride

Aspects of the chemistry of diorgano tritellurides (A.G. Maslakov, M.R. Greaves, W.R. McWhinnie and S.L.W. McWhinnie), 125

Tungsten

1,4-Diphenylbutadiyne complexes of tungsten(II) (T. Ajayi-Obe, E.M. Armstrong, P.K. Baker and S. Prakash), 165

Metal complexes of new chiral tridentate ligands with N, P and S donors: The crystal structure of [(S)-Ph₂POCH₂CH(NMe₂)CH₂CH₂SCH₃]W(CO)₃ (J.W. Faller, N. Zhang, K.J. Chase, W.K. Musker, A.R. Amaro and C.M. Semko), 175

The synthesis, fluxional properties and X-ray crystal structure of [WI(CO)(C₄H₃N₂S)(η²-MeC₂Me)₂] (where [C₄H₃N₂S]⁻ = pyrimidine-2-thionate) (P.K. Baker, P.D. Jackson, M.E. Harman and M.B. Hursthorne), 171

Water soluble phosphines

Approaches to water-soluble phosphines. II. Free radical addition reactions of phenylphosphines (K. Heesche-Wagner and T.N. Mitchell), 99

X-ray diffraction

Bis(tetramethylcyclopentadienyl)gallium(III) chloride, tris(tetramethylcyclopentadienyl)gallium(III) and tris(pentamethylcyclopentadienyl)gallium(III) (H. Schumann, S. Nickel and R. Weimann), 43

Darstellung und Struktur des dimeren η⁵-Cyclopentadienyl-titan-diformiats (T. Wöhrlé and U. Thewalt), C1

Dicyclohexylthiophosphinates and diethyldithiophosphinates of methylmercury(II) and phenylmercury(II): crystal and molecular structure of [HgPh(S₂PEt₂)₂] (J.S. Casas, A. Castañeiras, A. Sánchez, J. Sordo and E.M. Vázquez-López), 1

Distortion of cyclopentadienyl rings in η⁵-cyclopentadienyl-palladium complexes: crystal structures of [Pd(C₅H₅)-Cl(PMe₂Ph)] and [Pd(C₅H₅XPh₂PCH₂CH₂PPh₂)][PF₆]₂ (R.J. Cross, R.W. Hoyle, A.R. Kennedy, L. Manojlović-Muir and K.W. Muir), 265

Metal complexes of new chiral tridentate ligands with N, P and S donors: The crystal structure of [(S)-Ph₂POCH₂CH(NMe₂)CH₂CH₂SCH₃]W(CO)₃ (J.W. Faller, N. Zhang, K.J. Chase, W.K. Musker, A.R. Amaro and C.M. Semko), 175

Trimethylantimony(V) diorganomonothiophosphinates: the crystal structure of bis(diphenylmonothiophosphinato)trimethylantimony(V), Me₃Sb(OSPPh₂)₂, containing a monodentate

monothiophosphinato ligand (C. Silvestru, I. Haiduc, K.H. Ebert, H.J. Breunig and D.B. Sowerby), 113

Yttrium

The reaction of alkyl derivatives of yttrium and lutetium with organic disulphides and diselenides: The molecular structure

of $\{(\text{BuC}_5\text{H}_4)_2\text{Y}(\mu\text{-SePh})_2\} \cdot \text{C}_6\text{H}_6$ (I.P. Beletskaya, A.Z. Voskoboinikov, A.K. Shestakova, A.I. Yanovsky, G.K. Fukin, L.N. Zacharov, Y.T. Struchkov and H. Schumann), 121

Book review

Transition Metal Hydrides, A. Dedieu (Ed.) (M.F. Lappert), C13