

**JOURNAL OF ORGANOMETALLIC CHEMISTRY, VOL. 411 (1991)****SUBJECT INDEX****Aluminium**

Alkylaluminiumphenoxides, three- or four-coordinated aluminium in; distinction by use of  $^{27}\text{Al}$  NMR spectroscopy (R. Benn, E. Janssen, H. Lehmkuhl, A. Rufińska, K. Angermund, P. Betz, R. Goddard, C. Krüger), (411) 37

**Boron**

Halogenophenyl- and phenoxyhydrododecaborates,  $[(\text{X}\text{C}_6\text{H}_4)_n\text{B}_{12}\text{H}_{12-n}]^{2-}$  ( $\text{X} = \text{Br}, \text{I}; n = 1-3$ ) and  $[(\text{C}_6\text{H}_5\text{O})\text{B}_{12}\text{H}_{11}]^{2-}$ ; synthesis and  $^{11}\text{B}$ ,  $^{13}\text{C}$  and  $^1\text{H}$  NMR spectra of (W. Preetz, R. von Bismarck), (411) 25

**Calcium**

Bis[bis(trimethylsilyl)methyl]tin(II), examination of the reaction with calcium; molecular and crystal structure of benzyl-tris[bis(trimethylsilyl)methyl]stannane (M. Westerhausen, T. Hildenbrand), (411) 1

**Chromium**

Bi- and trinuclear cyclopentadienyl clusters of chromium with nitrene bridges (I.L. Eremenko, A.A. Pasynskii, E.A. Vas'utinskaya, A.S. Katugin, S.E. Nefedov, O.G. Ellert, V.M. Novotortsev, A.F. Shestakov, A.I. Yanovsky, Yu.T. Struchkov), (411) 193

$(\text{CO})_{5-n}(\text{R}'_3\text{P})_n\text{M}(\text{H})\text{SiR}_3$  ( $n = 2,3$ ), synthesis of phosphane substituted hydridosilyl complexes of chromium, molybdenum and tungsten; synthesis of  $(\text{CO})_3(\text{L-L})\text{M}(\text{H})\text{Cl}$  by conversion of  $(\text{CO})_3(\text{L-L})\text{M}(\text{NCR}')$  with  $\text{HSiClR}_2$  ( $\text{L-L} = \text{tmeda, bipy, dppe, (PPh}_3)_2$ ) (H. Piana, U. Schubert), (411) 303

$\text{Cr}(\text{CO})_5\text{CNCCl}_3$ , reactions with primary amines; synthesis of aliphatic, aromatic, functional, and chiral isocyanides (W.P. Fehlhammer, S. Ahn, G. Beck), (411) 181

Highly substituted tricarbonyl(cyclobutabenzenec)chromium(0) derivative; synthesis, structure, and solid state  $^{13}\text{C}$  NMR spectroscopy of (H.G. Wey, P. Betz, I. Topalović, H. Butenschön), (411) 369

**Cobalt**

Actinide complexes with tripod ligands, synthesis and structure of  $[\text{CpCo}(\text{P}(\text{O})(\text{OEt})_2)_3]\text{UCl}_3(\text{THF})$  (M. Wedler, J.W. Gilje, M. Noltemeyer, F.T. Edelmann), (411) 271

Bi- and trinuclear cyclopentadienyl clusters of chromium with nitrene bridges (I.L. Eremenko, A.A. Pasynskii, E.A. Vas'utinskaya, A.S. Katugin, S.E. Nefedov, O.G. Ellert, V.M. Novotortsev, A.F. Shestakov, A.I. Yanovsky, Yu.T. Struchkov), (411) 193

$(\text{OC})_2\text{LCo}(\eta^2\text{-PR}_2^1=\text{PR}^2)$ ; synthesis, properties and structures of this type of ( $\eta^2$ -phosphanediyolphosphinito)cobalt complexes (E. Lindner, T. Funk, W. Hiller, R. Fawzi), (411) 491

**Copper**

Binuclear transition metal complexes of  $\text{Cu}^1$ ,  $\text{Mo}^0$ , and  $\text{Re}^1$  with 2,2'-bipyrimidine (P.S. Braterman, J.-I. Song, S. Kohlmann, C. Vogler, W. Kaim), (411) 207

1,5,9,13-Tetraselenacyclohexadecane selenium coronand; syntheses,  $^{77}\text{Se}$  CP-MAS solid state NMR spectra and crystal structures of adducts with copper(I) trifluoromethanesulfonate and mercury(II) cyanide (R.J. Batchelor, F.W.B. Einstein, I.D. Gay, J.-H. Gu, B.M. Pinto), (411) 147

## Indium

Dimethylindium- and bis(trimethylsilylmethyl)indium-dimesylamide, synthesis of; crystal structure of  $[(\text{Me}_3\text{SiCH}_2)_2\text{InN}(\text{SO}_2\text{Me})_2]_2$  (A. Blaschette, A. Michalides, P.G. Jones), (411) 57

## Iridium

Highly reduced metalcarbonyl  $[\text{Ir}(\text{CO})_3]^{3-}$ ; reaction with the ethylenepentacarbonylrhenium cation; formation of the trinuclear hydride  $(\text{OC})_5\text{Re}-\text{Ir}(\text{CO})_3(\text{H})-\text{Re}(\text{CO})_5$  and the trismetalated carbonate  $\{\mu_3\text{-CO}_3[\text{Re}(\text{CO})_5]_3\}^+$  (J. Breimair, C. Robl, W. Beck), (411) 395

## Iron

Dicyclohexylammonium hydridoundecacarbonyltriferrate; X-ray diffraction study and Mössbauer effect spectral parameters of (R.B. King, G.S. Chorghade, N.K. Bhattacharyya, E.M. Holt, G.J. Long), (411) 419

1,3-Ditellura[3]ferrocenophanes,  $\text{Fe}(\text{C}_5\text{H}_4\text{Te})_2\text{E}$  ( $\text{E} = \text{S}, \text{Se}, \text{Te}$  or  $\text{CH}_2$ ) (M. Herberhold, P. Leitner), (411) 233

1,1'-Di-tert-butyl-3,3'-bis(2,2-dimethylpropionyl)ferrocene, diastereoisomeric forms of (W. Bell, C. Glidewell), (411) 251

$[\text{Fe}_2(\text{CN})(\eta\text{-C}_5\text{H}_5)_2(\text{CO})_3]^-$ , synthesis, structure and dynamics of (W.P. Fehlhammer, A. Schröder, F. Schöder, J. Fuchs, A. Völkl, B. Boyadjiev, S. Schrökamp), (411) 405

$\text{Fe}_3(\text{CO})_{11}^{2-}$  and  $\text{Fe}_4(\text{CO})_{13}^{2-}$ , transformation to give trinuclear clusters (W. Deck, A.K. Powell, H. Vahrenkamp), (411) 431

*cis*- $\text{Fe}(\text{CO})_4(\text{SiCl}_{3-n}\text{Me}_n)_2$  ( $n = 1-3$ ), conversion with phosphines; competition between CO substitution, SiR<sub>3</sub> elimination and formation of SiR<sub>2</sub> bridged complexes (U. Schubert, M. Knorr, C. Straßer), (411) 75

$[(\text{Me}_3\text{Sn}^{\text{IV}})_4\text{Fe}^{\text{II}}(\text{CN})_6 \cdot 4\text{H}_2\text{O}]_\infty$ , an organotin Berlin blue analogue with coordinative O–H ··· N hydrogen bonds (U. Behrens, A.K. Brimah, R.D. Fischer), (411) 325

$\text{Te}_2\text{S}$ ,  $\text{Te}_2\text{Se}$  and  $\text{Te}_3$  bridged compounds, energies of; CNDO/2 investigation of the mechanism of the bridge reversal process (E.W. Abel, K.G. Orrell, A.G. Osborne, V. Šík, W. Guoxiong), (411) 239

## Lanthanum

Tris( $\eta^5$ -cyclopentadienyl)neodymium(III), neutral base adducts of; interpretation of their optical magnetochemical, ESR and NMR properties (H. Reddmann, H. Schultze, H.-D. Amberger, G.V. Shalimoff, N.M. Edelstein), (411) 331

## Magnesium

Dimeric [bis(*ortho*-anisyl)magnesium·THF]<sub>2</sub>, crystal structure of (P.R. Markies, G. Schat, A. Villena, O.S. Akkerman, F. Bickelhaupt, W.J.J. Smeets, A.L. Spek), (411) 291

## Manganese

Carbonyl- $\eta^4$ -dien- $\eta^5$ -2,4-dimethyl-2,4-pentadienyl-manganese complexes, photochemical reactions with olefins (C.G. Kreiter, K. Lehr, R. Exner), (411) 225

Complexes with two  $-\text{SMn}(\text{CO})_2\text{Cp}$  centres, separated radicals or S–S bonds (H. Braunwarth, P. Lau, G. Huttner, M. Minelli, D. Günauer, L. Zsolnai, I. Jibril, K. Evertz), (411) 383

$\text{Fe}_3(\text{CO})_{11}^{2-}$  and  $\text{Fe}_4(\text{CO})_{13}^{2-}$ , transformation to give trinuclear clusters (W. Deck, A.K. Powell, H. Vahrenkamp), (411) 431

## Mercury

Monomercurated acetic acid; crystal structure of  $\text{NO}_3\text{HgCH}_2\text{COOH}$  (D. Grdenić, B. Korpar-Čolig, D. Matković-Čalogović, M. Sikirica, Z. Popović), (411) 19  
 1,5,9,13-Tetraselenacyclohexadecane selenium coronand; syntheses,  $^{77}\text{Se}$  CP-MAS solid state NMR spectra and crystal structures of adducts with copper(I) trifluoromethanesulfonate and mercury(II) cyanide (R.J. Batchelor, F.W.B. Einstein, I.D. Gay, J.-H. Gu, B.M. Pinto), (411) 147

## Metallocenes

Bis( $\eta^5$ -cyclopentadienyl)molybdenum(IV) dialkyls, autoxidations of (J.M. Atkinson, P.B. Brindley), (411) 139  
 Bis( $\eta^5$ -pentamethylcyclopentadienyl)zirconium(IV) dialkyls, autoxidations of (J.M. Atkinson, P.B. Brindley), (411) 131  
 1,3-Ditellura[3]ferrocenophanes,  $\text{Fe}(\text{C}_5\text{H}_4\text{Te})_2\text{E}$  ( $\text{E} = \text{S, Se, Te or CH}_2$ ) (M. Herberhold, P. Leitner), (411) 233  
 1,1'-Di-tert-butyl-3,3'-bis(2,2-dimethylpropionyl)ferrocene, diastereoisomeric forms of (W. Bell, C. Glidewell), (411) 251  
 Tris(cyclopentadienyl)technetium(III),  $(\eta^5\text{C}_5\text{H}_5)_2\text{Tc}(\eta^1\text{C}_5\text{H}_5)$ , X-ray diffraction study of; dipole moment and charge distribution of  $(\text{C}_5\text{H}_5)_3\text{M}$  ( $\text{M} = \text{V, Tc, Re}$ ) (C. Apostolidis, B. Kanellakopulos, R. Maier, J. Rebizant, M.L. Ziegler), (411) 171

## Molybdenum

*N*-Allyl-trichloroacetamide, enantioselective epoxydation with optically active Mo catalysts (H. Brunner, H. Zintl), (411) 375  
 Binuclear transition metal complexes of  $\text{Cu}^1$ ,  $\text{Mo}^0$ , and  $\text{Re}^1$  with 2,2'-bipyrimidine (P.S. Braterman, J.-I. Song, S. Kohlmann, C. Vogler, W. Kaim), (411) 207  
 Bis( $\eta^5$ -cyclopentadienyl)molybdenum(IV) dialkyls, autoxidations of (J.M. Atkinson, P.B. Brindley), (411) 139  
 $(\text{CO})_{5-n}(\text{R}'_3\text{P})_n\text{M(H)SiR}_3$  ( $n = 2,3$ ), synthesis of phosphane substituted hydridosilyl complexes of chromium, molybdenum and tungsten; synthesis of  $(\text{CO})_3(\text{L-L})\text{M(H)Cl}$  by conversion of  $(\text{CO})_3(\text{L-L})\text{M(NCR')}$  with  $\text{HSiClR}_2$  ( $\text{L-L} = \text{tmeda, bipy, dppe, (PPh}_3)_2$ ) (H. Piana, U. Schubert), (411) 303  
 Highly reduced metalcarbonyl  $[\text{Ir}(\text{CO})_3]^{3-}$ , reaction with the ethylenepentacarbonylrhenium cation; formation of the trinuclear hydride  $(\text{OC})_5\text{Re-Ir}(\text{CO})_3(\text{H})-\text{Re}(\text{CO})_5$  and the trismetalated carbonate  $\{\mu_3\text{-CO}_3[\text{Re}(\text{CO})_5]_3\}^+$  (J. Breimair, C. Robl, W. Beck), (411) 395  
 Molybdenum(II) and tungsten(II) tricyclohexylphosphinecarbonyl disulphide seven-coordinate complexes (P.K. Baker, D. ap Kendrick), (411) 215

## Neodymium

Tris( $\eta^5$ -cyclopentadienyl)neodymium(III), neutral base adducts of; interpretation of their optical magnetochemical, ESR and NMR properties (H. Reddmann, H. Schultze, H.-D. Amberger, G.V. Shalimoff, N.M. Edelstein), (411) 331

## Nickel

Dinuclear nickel complex  $\{(\text{depe})\text{NiBr}\}_2(\mu\text{-Z,Z-PhC=CH-CH=CPh})$ , facile cleavage of C-C bond (C.J. Lawrie, H.E. Dankosh, B.K. Carpenter), (411) C7  
 $\text{Fe}_3(\text{CO})_{11}^{2-}$  and  $\text{Fe}_4(\text{CO})_{13}^{2-}$ , transformation to give trinuclear clusters (W. Deck, A.K. Powell, H. Vahrenkamp), (411) 431  
 $\text{Ni}^0$  induced synthesis of cyclic  $\text{C}_8$  carbon acids from cyclooctenes and carbon dioxide (H. Hoberg, A. Ballesteros), (411) C11

## Osmium

$[C_6H_6Os(PR_3)]$  as structural element; synthesis and reactions with alkinyl, vinylidene, and vinylosmium(II) complexes (W. Knaup, H. Werner), (411) 471  
 $L_4Ru^0$  complex cores, inter- and intramolecular cleavage of  $sp^2$ - and  $sp^3$ -C–H bonds with  $P(o-C_6H_4PMe_2)_3$ ,  $N(CH_2CH_2PMe_2)_3$ ,  $MeP(CH_2CH_2CH_2PMe_2)_2/PR_3$ , and  $MeSi(CH_2PMe_2)_3/PR_3$  ( $R = Me, OMe$ ) as supporting ligands (L. Dahlenburg, S. Kerstan, D. Werner), (411) 457

## Phosphorus

Alkylvanadium complexes, synthesis and characterisation of; molecular structure of *trans*- $[V(CO)_2(Ph_2PCH_2CH_2PPh_2)_2$  (D. Rehder, F. Süßmilch, W. Priebisch, M. Fornalczyk), (411) 357  
 $[C_6H_6Os(PR_3)]$  as structural element; synthesis and reactions with alkinyl, vinylidene, and vinylosmium(II) complexes (W. Knaup, H. Werner), (411) 471

$[(C_5H_5)Ru(dppm)(CH_2=SO_2)]^+$ , a strong organometallic electrophile (W.A. Schenk, P. Urban), (411) C27

$(CO)_{5-n}(R'_3P)_nM(H)SiR_3$  ( $n = 2,3$ ), synthesis of phosphane substituted hydridosilyl complexes of chromium, molybdenum and tungsten; synthesis of  $(CO)_3(L-L)M(H)Cl$  by conversion of  $(CO)_3(L-L)M(NCR')$  with  $HSiClR_2$  ( $L-L = tmeda$ , bipy, dppe,  $(PPh_3)_2$ ) (H. Piana, U. Schubert), (411) 303  
 $cis$ - $Fe(CO)_4(SiCl_{3-n}Me_n)_2$  ( $n = 1-3$ ), conversion with phosphines; competition between CO substitution,  $SiR_3$  elimination and formation of  $SiR_2$  bridged complexes (U. Schubert, M. Knorr, C. Straßer), (411) 75

$L_4Ru^0$  complex cores, inter- and intramolecular cleavage of  $sp^2$ - and  $sp^3$ -C–H bonds with  $P(o-C_6H_4PMe_2)_3$ ,  $N(CH_2CH_2PMe_2)_3$ ,  $MeP(CH_2CH_2CH_2PMe_2)_2/PR_3$ , and  $MeSi(CH_2PMe_2)_3/PR_3$  ( $R = Me, OMe$ ) as supporting ligands (L. Dahlenburg, S. Kerstan, D. Werner), (411) 457

$Ni^0$  induced synthesis of cyclic  $C_8$  carbon acids from cyclooctenes and carbon dioxide (H. Hoberg, A. Ballesteros), (411) C11

$(OC)_2LCo(\eta^2-PR_2^{\perp}\omega PR^2)$ ; synthesis, properties and structures of this type of ( $\eta^2$ -phosphanediylphosphinato)cobalt complexes (E. Lindner, T. Funk, W. Hiller, R. Fawzi), (411) 491

Polycyclic silacyclobutanes, Rh-catalyzed synthesis from norbornadiene and diphenylsilane (H. Brunner, F. Prester), (411) C1

## Rhenium

Binuclear transition metal complexes of  $Cu^I$ ,  $Mo^0$ , and  $Re^I$  with 2,2'-bipyrimidine (P.S. Brateman, J.-I. Song, S. Kohlmann, C. Vogler, W. Kaim), (411) 207

$Fe_3(CO)_{11}^{2-}$  and  $Fe_4(CO)_{13}^{2-}$ , transformation to give trinuclear clusters (W. Deck, A.K. Powell, H. Vahrenkamp), (411) 431

Highly reduced metalcarbonyl  $[Ir(CO)_3]^{3-}$ , reaction with the ethylenepentacarbonylrhenium cation; formation of the trinuclear hydride  $(OC)_5Re-Ir(CO)_3(H)-Re(CO)_5$  and the trismetalated carbonate  $\{\mu_3-CO_3[Re(CO)_3]_3\}^+$  (J. Breimair, C. Robl, W. Beck), (411) 395

Tris(cyclopentadienyl)technetium(III), ( $\eta^5-C_5H_5)_2Tc(\eta^1-C_5H_5)$ , X-ray diffraction study of; dipole moment and charge distribution of  $(C_5H_5)_3M$  ( $M = V, Tc, Re$ ) (C. Apostolidis, B. Kanellakopulos, R. Maier, J. Rebizant, M.L. Ziegler), (411) 171

## Rhodium

Dirhodium(II) aqua-cation, reaction with carbon monoxide; new pathway for  $Rh_4(CO)_{12}$  synthesis (M. Moszner, J.J. Ziolkowski), (411) 281

Polycyclic silacyclobutanes, Rh-catalyzed synthesis from norbornadiene and diphenylsilane (H. Brunner, F. Prester), (411) C1

Triazenido-bridged  $[Rh_2]^{4+}$  unit, superoxide and semi-quinone derivatives of (N.G. Connolly, A.C. Loyns), (411) 285

## Ruthenium

Alkenyl-ruthenium(II)  $Ru(CO)Cl(RC = CHR')(PPh_3)_2$  complexes, reaction with CO; formation of dicarbonyl complexes or  $\eta^2$ -acyl complexes depending on the R and R' groups (H. Loumrhari, J. Ros, M.R. Torres, A. Santos, A.M. Echavarren), (411) 255

Bis(diazadiene)ruthenium, isomerisation, hydrogenation and metalation; structure of a potassium(tmeda)<sub>2</sub>ruthenate(0) derivative (V. Rosenberger, G. Fendesak, H. tom Dieck), (411) 445  
 $[(C_5H_5)_2Ru(dppm)(CH_2=SO_2)]^+$ , a strong organometallic electrophile (W.A. Schenk, P. Urban), (411) C27

(Dialkylsulfide)(arene)ruthenium(II) derivatives (M. Gaye, B. Demerseman, P.H. Dixneuf), (411) 263  
 $L_4Ru^0$  complex cores, inter- and intramolecular cleavage of  $sp^2$ - and  $sp^3$ -C–H bonds with P(*o*-C<sub>6</sub>H<sub>4</sub>PM<sub>2</sub>)<sub>3</sub>, N(CH<sub>2</sub>CH<sub>2</sub>PM<sub>2</sub>)<sub>3</sub>, MeP(CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>PM<sub>2</sub>)<sub>2</sub>/PR<sub>3</sub> and MeSi(CH<sub>2</sub>PM<sub>2</sub>)<sub>3</sub>/PR<sub>3</sub> (R = Me, OMe) as supporting ligands (L. Dahlenburg, S. Kerstan, D. Werner), (411) 457

## Samarium

Monomeric organosamarium(III) chalcogenolates, synthesis by reductive cleavage of E–E bonds (E = S, Se, Te) (A. Recknagel, M. Noltemeyer, D. Stalke, U. Pieper, H.-G. Schmidt, F.T. Edelmann), (411) 347

## Selenium

Monomeric organosamarium(III) chalcogenolates, synthesis by reductive cleavage of E–E bonds (E = S, Se, Te) (A. Recknagel, M. Noltemeyer, D. Stalke, U. Pieper, H.-G. Schmidt, F.T. Edelmann), (411) 347

Te<sub>2</sub>S, Te<sub>2</sub>Se and Te<sub>3</sub> bridged compounds, energies of; CNDO/2 investigation of the mechanism of the bridge reversal process (E.W. Abel, K.G. Orrell, A.G. Osborne, V. Šik, W. Guoxiong), (411) 239

1,5,9,13-Tetraselenacyclohexadecane selenium coronand; syntheses, <sup>77</sup>Se CP-MAS solid state NMR spectra and crystal structures of adducts with copper(I) trifluoromethanesulfonate and mercury(II) cyanide (R.J. Batchelor, F.W.B. Einstein, I.D. Gay, J.-H. Gu, B.M. Pinto), (411) 147

## Silicon

Bis[bis(trimethylsilyl)methyl]tin(II), examination of the reaction with calcium; molecular and crystal structure of benzyl-tris[bis(trimethylsilyl)methyl]stannane (M. Westerhausen, T. Hildenbrand), (411) 1

(CO)<sub>5-n</sub>(R'<sub>3</sub>P)<sub>n</sub>M(H)SiR<sub>3</sub> (*n* = 2,3), synthesis of phosphane substituted hydridosilyl complexes of chromium, molybdenum and tungsten; synthesis of (CO)<sub>3</sub>(L-L)M(H)Cl by conversion of (CO)<sub>3</sub>(L-L)M(NCR') with HSiClR<sub>2</sub> (L-L = tmeda, bipy, dppe, (PPh<sub>3</sub>)<sub>2</sub>) (H. Piana, U. Schubert), (411) 303

Dimethylindium- and bis(trimethylsilylmethyl)indium-dimesylamide, synthesis of; crystal structure of [(Me<sub>3</sub>SiCH<sub>2</sub>)<sub>2</sub>InN(SO<sub>2</sub>Me)<sub>2</sub>]<sub>2</sub> (A. Blaschette, A. Michalides, P.G. Jones), (411) 57

cis-Fe(CO)<sub>4</sub>(SiCl<sub>3-n</sub>Me<sub>n</sub>)<sub>2</sub> (*n* = 1–3), conversion with phosphines; competition between CO substitution, SiR<sub>3</sub> elimination and formation of SiR<sub>2</sub> bridged complexes (U. Schubert, M. Knorr, C. Straßer), (411) 75

$\alpha$ -Functionalised silanes, regioselective synthesis via alkylation of lithiated trimethylsilylacetonitrile (B. Mauzé, L. Miginiac), (411) 69

$L_4Ru^0$  complex cores, inter- and intramolecular cleavage of  $sp^2$ - and  $sp^3$ -C–H bonds with P(*o*-C<sub>6</sub>H<sub>4</sub>PM<sub>2</sub>)<sub>3</sub>, N(CH<sub>2</sub>CH<sub>2</sub>PM<sub>2</sub>)<sub>3</sub>, MeP(CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>PM<sub>2</sub>)<sub>2</sub>/PR<sub>3</sub> and MeSi(CH<sub>2</sub>PM<sub>2</sub>)<sub>3</sub>/PR<sub>3</sub> (R = Me, OMe) as supporting ligands (L. Dahlenburg, S. Kerstan, D. Werner), (411) 457

Polycyclic silacyclobutanes, Rh-catalyzed synthesis from norbornadiene and diphenylsilane (H. Brunner, F. Prester), (411) C1

## Technetium

Tris(cyclopentadienyl)technetium(III), ( $\eta^5$ -C<sub>5</sub>H<sub>5</sub>)<sub>2</sub>Tc( $\eta^1$ -C<sub>5</sub>H<sub>5</sub>), X-ray diffraction study of; dipole moment and charge distribution of (C<sub>5</sub>H<sub>5</sub>)<sub>3</sub>M (M = V, Tc, Re) (C. Apostolidis, B. Kanellakopulos, R. Maier, J. Rebizant, M.L. Ziegler), (411) 171

## Tellurium

Monomeric organosamarium(III) chalcogenolates, synthesis by reductive cleavage of E–E bonds (E = S, Se, Te) (A. Recknagel, M. Noltemeyer, D. Stalke, U. Pieper, H.-G. Schmidt, F.T. Edelmann), (411) 347

**Te<sub>2</sub>S, Te<sub>2</sub>Se and Te<sub>3</sub> bridged compounds, energies of; CNDO/2 investigation of the mechanism of the bridge reversal process** (E.W. Abel, K.G. Orrell, A.G. Osborne, V. Šík, W. Guoxiong), (411) 239

## Tin

- Bis[bis(trimethylsilyl)methyl]tin(II), examination of the reaction with calcium; molecular and crystal structure of benzyl-tris[bis(trimethylsilyl)methyl]stannane (M. Westerhausen, T. Hildenbrand), (411) 1  
 2,3-Bis(trimethylstannyl)-1-alkene moiety, Lewis acid-catalysed reaction with aldehydes (T.N. Mitchell, U. Schneider, K. Heesche-Wagner), (411) 107  
 2-Chloro-2-n-butyl-1,3-dithia-2-stannacyclopentane, synthesis of; crystal structure of its 1,10-phenanthroline complex (G. Bandoli, U. Casellato, V. Peruzzo, G. Piazzogna), (411) 99  
 Dicyclohexylammonium tri-n-butylin 2-sulfobenzoate, [(c-C<sub>6</sub>H<sub>11</sub>)<sub>2</sub>NH<sub>2</sub>]<sup>n</sup>Bu<sub>3</sub>Sn(O<sub>2</sub>CC<sub>6</sub>H<sub>4</sub>-2-SO<sub>3</sub>)<sub>n</sub>, crystal structure of (S.W. Ng, V.G. Kumar Das, E.R.T. Tiekkink), (411) 121  
 Diorganotin(IV) complexes of picolinic acid and picolinic acid N-oxide, preparation and tin-119m Mössbauer spectra (G.K. Sandhu, N.S. Boparoy), (411) 89  
 [(Me<sub>3</sub>Sn<sup>IV</sup>)<sub>4</sub>Fe<sup>II</sup>(CN)<sub>6</sub>·4H<sub>2</sub>O]<sub>∞</sub>, an organotin Berlin blue analogue with coordinative O-H···N hydrogen bonds (U. Behrens, A.K. Brimah, R.D. Fischer), (411) 325  
 [O{Sn(C<sub>6</sub>H<sub>3</sub>Et<sub>2</sub>-2,6)<sub>2</sub>}<sub>3</sub>], synthesis of a four-membered ring compound containing three tin atoms and one oxygen; crystal structure of (C.J. Cardin, D.J. Cardin, M.A. Convery, M.M. Devereux), (411) C3

## Tungsten

- (CO)<sub>5-n</sub>(R'<sub>3</sub>P)<sub>n</sub>M(H)SiR<sub>3</sub> (n = 2,3), synthesis of phosphane substituted hydridosilyl complexes of chromium, molybdenum and tungsten; synthesis of (CO)<sub>3</sub>(L-L)M(H)Cl by conversion of (CO)<sub>3</sub>(L-L)M(NCR') with HSiClR<sub>2</sub> (L-L = tmida, bipy, dppe, (PPh<sub>3</sub>)<sub>2</sub>) (H. Piana, U. Schubert), (411) 303  
 Molybdenum(II) and tungsten(II) tricyclohexylphosphinecarbonylsulphide seven-coordinate complexes (P.K. Baker, D. ap Kendrick), (411) 215  
 Tungsten(0)-diethylaminocomplex, stepwise preparation from ethyliiscyanide precursors (A.C. Filippou, W. Grünleitner, E.O. Fischer), (411) C21

## Uranium

- Actinide complexes with tripod ligands, synthesis and structure of [CpCo{P(O)(OEt)<sub>2</sub>}<sub>3</sub>]UCl<sub>3</sub>(THF) (M. Wedler, J.W. Gilje, M. Noltemeyer, F.T. Edelmann), (411) 271

## Vanadium

- Alkylvanadium complexes, synthesis and characterisation of; molecular structure of *trans*-[V(CO)<sub>2</sub>(Ph<sub>2</sub>PCH<sub>2</sub>CH<sub>2</sub>PPh<sub>2</sub>)<sub>2</sub>] (D. Rehder, F. Süßmilch, W. Priebisch, M. Fornalczyk), (411) 357  
 Tris(cyclopentadienyl)technetium(III), ( $\eta^5$ -C<sub>5</sub>H<sub>5</sub>)<sub>2</sub>Tc( $\eta^1$ -C<sub>5</sub>H<sub>5</sub>), X-ray diffraction study of; dipole moment and charge distribution of (C<sub>5</sub>H<sub>5</sub>)<sub>3</sub>M (M = V, Tc, Re) (C. Apostolidis, B. Kanellakopoulos, R. Maier, J. Rebizant, M.L. Ziegler), (411) 171  
 [V<sub>2</sub>Cp<sub>2</sub>(CO)<sub>4</sub>( $\mu$ -SMe)<sub>2</sub>], ligand substitution by isocyanides or trimethyl phosphite; synthesis and spectroscopic characterisation of the mono- and di-substituted derivatives; electrochemical behaviour of the parent complex (F.Y. Pétillon, P. Schollhammer, J. Talarmin), (411) 159

## Zirconium

- Bis( $\eta^5$ -pentamethylcyclopentadienyl)zirconium(IV) dialkyls, autoxidations of (J.M. Atkinson, P.B. Brindley), (411) 131