

Subject Index of Volume 538

Acetylenes

Reactions of RuHCl(CO)(PPh₃)₃ with 1-alkynols. Preparation and reactivity of hydroxyvinyl complexes (G. Jia, W.F. Wu, R.C.Y. Yeung and H. Xia), 31

A-frame clusters

A-frame trinuclear complexes of platinum and palladium with a tridentate phosphine ligand. Insertion of d¹⁰ Pt(0) and Pd(0) fragments into a Pt–Pt σ-bond (T. Tanase, H. Takahata, H. Ukaji, M. Hasegawa and Y. Yamamoto), 247

Alkenols

Directed semi-hydrogenation of triple bonds in diene tricarbonyliron complexes (M. Laabassi, P. Mosset and R. Grée), 91

Alkyne

Synthesis and spectroscopic characterisation of *cis*-Ru₄(CO)₁₂(μ₄,η²-HC₂Ph) and *cis*-Ru₄(CO)₉(μ-CO)₂(μ₄,η²-HC₂Ph)(μ₄-Se). Crystal structure of *cis*-Ru₄(CO)₁₂(μ₄,η²-HC₂Ph) (P. Mathur, S. Ghosh, Md.M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold and G.P.A. Yap), 57

Alkynes

Synthese und Koordinationsverhalten Me₂NCH₂CH₂-funktionalisierter Metallocene von Titan, Vanadium und Chrom (M. Enders, K. Köhler, W. Frosch, H. Pritzkow und H. Lang), 163

Allyl

Synthesis of the rhenium allyl chloride complex Cp*Re(η³-C₃H₅)-(CO)Cl and reactions to give hydrido, phenyl and alkyl derivatives (Y.-X. He and D. Sutton), 49

Allyl complex

Molecular structure of π-allyl palladium(II) complex, [Pd(η³-PhCHCHCHPh)-((S,S)-chiraphos)]PF₆: a novel envelope conformation of chiral C₂-symmetric diphosphine (M. Yamaguchi, M. Yabuki, T. Yamagishi, M. Kondo and S. Kitagawa), 199

Ansa

Ansa-bis(cyclopentadienyl) complexes of niobium(III) and niobium(IV); X-ray structures of [Nb(η-C₅H₄-CMe₂-η-C₅H₄)-(η²-BH₄)] and [Nb(η-C₅H₄-CMe₂-η-C₅H₄)(H)PMe₃] (N.J. Bailey, M.L.H. Green, M.A. Leech, J.F. Saunders and H.M. Tidswell), 111

Ansa-permethyltitanocene

Synthesis, crystal structures and some properties of dimethylsilylene-bridged ansa-permethyltitanocene [Ti(IV), (III) and (II)] complexes (V. Varga, J. Hiller, R. Gyepes, M. Polášek, P. Sedmera, U. Thewalt and K. Mach), 63

Arsenic(III)

Synthesis and characterisation of organoarsenic(III) xanthates and dithiocarbamates. X-ray crystal structures of RAs(S₂CNEt₂)₂, R = Me and Ph (S.S. Garje, V.K. Jain and E.R.T. Tieckink), 129

Aryltetrasilanes

Synthese und Eigenschaften chlorierter und bromierter Aryltetrasilane und Aryltetrasilane (K. Hassler und W. Köll), 135

Aryltrisilanes

Aryltrisilane Si₃Ar_nH_{8-n} (Ar = Ph, p-Tol; n = 2–7) (K. Hassler and W. Köll), 145

Synthese und Eigenschaften chlorierter und bromierter Aryltrisilane und Aryltetrasilane (K. Hassler und W. Köll), 135

Asymmetric allylic alkylation

Molecular structure of π-allyl palladium(II) complex, [Pd(η³-PhCHCHCHPh)-((S,S)-chiraphos)]PF₆: a novel envelope conformation of chiral C₂-symmetric diphosphine (M. Yamaguchi, M. Yabuki, T. Yamagishi, M. Kondo and S. Kitagawa), 199

Azide

Synthesis and structural characterisation of a new μ₂-Te bridged complex of molybdenum with oxo and imido ligands (P. Mathur, S. Ghose, Md.M. Hossain and H. Vahrenkamp), 185

Azido complexes

Preparation and reactions of methylpalladium(II) and -platinum(II) azido complexes. The crystal structure of *trans*-PdMe(N₃)(PMe₃)₂ and *trans*-PdMe(CN₄(C₆H₁₁))(PMe₃)₂ (Y.-J. Kim, D.-H. Kim, J.-Y. Lee and S.-W. Lee), 189

Berry

Structure and stereodynamic relationships in (η⁴-diene)ML₃ systems (P. McArdle, J. Skelton and A.R. Manning), 9

Bis-imine ligand

Stereochemically non-rigid transition metal complexes of 2,6-bis[(1-phenylimino)ethyl]pyridine (BIP). Part 2. Dynamic NMR studies of *fac*-[ReX(CO)₃(BIP)] (X = Cl, Br, or I). Crystal structure of *fac*-[ReBr(CO)₃(BIP)] (K.G. Orrell, A.G. Osborne, V. Šík, M. Webba da Silva, M.B. Hursthouse, D.E. Hibbs, K.M. Abdul Malik and N.G. Vassilev), 171

3,5-Bis(vinylidene)-oxanes

Les bis-silanes bis-propargyliques comme précurseurs de bis(vinylidène)oxanes et oxépanes (P. Aubert et J. Pernet), 211

3,6-Bis(vinylidene)oxepanes

Les bis-silanes bis-propargyliques comme précurseurs de bis(vinylidène)oxanes et oxépanes (P. Aubert et J. Pernet), 211

Carbon dioxide

Preparation and characterization of the rhenium silyl esters (η⁵-C₅Me₅)-(CO)(NO)ReC(O)OSiR₃ (SiR₃ = SiMe₂Ph, SiEt₃) (M.D.B. Cavanaugh, S.M. Tetrick, C.J. Masi and A.R. Cutler), 41

Carbonyl

Synthesis and spectroscopic characterisation of *cis*-Ru₄(CO)₁₂(μ₄,η²-HC₂Ph) and *cis*-Ru₄(CO)₉(μ-CO)₂(μ₄,η²-HC₂Ph)(μ₄-Se). Crystal structure of *cis*-Ru₄(CO)₁₂(μ₄,η²-HC₂Ph) (P. Mathur, S. Ghosh, Md.M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold and G.P.A. Yap), 57

Catalysis

Multiple bonds between transition metals and main-group elements, 163. Nitrogen-donor adducts of organorhenium(VII) oxides: structural and catalytic aspects (W.A. Herrmann, F.E. Kühn, M.R. Mattner, G.R.J. Artus, M.R. Geisberger and J.D.G. Correia), 203

Cation

Synthesis and molecular structure of [(t-C₄H₉C₅H₄)₂Yb(THF)₂]_n[BPh₄]_n·THF and its catalytic activity for the polymerization of styrene (F. Yuan, Q. Shen and J. Sun), 241

Charge-transfer complex

Synthesis and some properties of bis- and tetrakis(triphenylstanny)tetraphiafulvalenes and tetraiodotetrathiafulvalene (M. Sato and M.-a. Sensui), 1

Chiral diphosphine

Molecular structure of π -allyl palladium(II) complex, $[\text{Pd}(\eta^3\text{-PhCHCHCHPh})-(S,S)\text{-chiraphos}]\text{PF}_6$: a novel envelope conformation of chiral C_2 -symmetric diphosphine (M. Yamaguchi, M. Yabuki, T. Yamagishi, M. Kondo and S. Kitagawa), 199

Chiraphos

Molecular structure of π -allyl palladium(II) complex, $[\text{Pd}(\eta^3\text{-PhCHCHCHPh})-(S,S)\text{-chiraphos}]\text{PF}_6$: a novel envelope conformation of chiral C_2 -symmetric diphosphine (M. Yamaguchi, M. Yabuki, T. Yamagishi, M. Kondo and S. Kitagawa), 199

Chloride

Synthesis of the rhenium allyl chloride complex $\text{Cp}^*\text{Re}(\eta^3\text{-C}_3\text{H}_5)(\text{CO})\text{Cl}$ and reactions to give hydrido, phenyl and alkyl derivatives (Y.-X. He and D. Sutton), 49

Chromium

Synthesis and characterization of an organometallic phosphonic acid: X-ray crystal structure of $[\eta^6\text{-}p\text{-C}_6\text{H}_4(\text{CH}_2\text{PO}_3\text{H}_2)_2]\text{Cr}(\text{CO})_3$ (R.W. Deemie, J.C. Fettinger and D.A. Knight), 257

Chromium(II)

Synthese und Koordinationsverhalten $\text{Me}_2\text{NCH}_2\text{CH}_2$ -funktionalisierter Metallocene von Titan, Vanadium und Chrom (M. Enders, K. Köhler, W. Frosch, H. Pritzkow und H. Lang), 163

Cluster

Synthesis and spectroscopic characterisation of *closo*- $\text{Ru}_4(\text{CO})_{12}(\mu_4,\eta^2\text{-HC}_2\text{Ph})$ and *closo*- $\text{Ru}_4(\text{CO})_9(\mu\text{-CO})_2(\mu_4,\eta^2\text{-HC}_2\text{Ph})(\mu_4\text{-Se})$. Crystal structure of *closo*- $\text{Ru}_4(\text{CO})_{12}(\mu_4,\eta^2\text{-HC}_2\text{Ph})$ (P. Mathur, S. Ghosh, Md.M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold and G.P.A. Yap), 57

Copper(I)

Synthese und Koordinationsverhalten $\text{Me}_2\text{NCH}_2\text{CH}_2$ -funktionalisierter Metallocene von Titan, Vanadium und Chrom (M. Enders, K. Köhler, W. Frosch, H. Pritzkow und H. Lang), 163

Crystal structure

Molecular structure of π -allyl palladium(II) complex, $[\text{Pd}(\eta^3\text{-PhCHCHCHPh})-(S,S)\text{-chiraphos}]\text{PF}_6$: a novel envelope conformation of chiral C_2 -symmetric diphosphine (M. Yamaguchi, M. Yabuki, T. Yamagishi, M. Kondo and S. Kitagawa), 199

Preparation and reactions of methylpalladium(II) and -platinum(II) azido complexes. The crystal structure of *trans*- $\text{PdMe}(\text{N}_3)(\text{PMe}_3)_2$ and *trans*- $\text{PdMe}[\text{CN}_4(\text{C}_6\text{H}_{11})](\text{PMe}_3)_2$ (Y.-J. Kim, D.-H. Kim, J.-Y. Lee and S.-W. Lee), 189

Synthesis and characterisation of organoarsenic(III) xanthates and dithiocarbamates. X-ray crystal structures of $\text{RAs}(\text{S}_2\text{CNET}_2)_2$, $\text{R} = \text{Me}$ and Ph (S.S. Garje, V.K. Jain and E.R.T. Tieckink), 129

Synthesis and molecular structure of $[(t\text{-C}_4\text{H}_9\text{C}_5\text{H}_4)_2\text{Yb}(\text{THF})_2]\text{-}[\text{BPh}_4]\cdot\text{THF}$ and its catalytic activity for the polymerization of styrene (F. Yuan, Q. Shen and J. Sun), 241

Crystal structures

Synthesis, crystal structures and some properties of dimethylsilylene-bridged ansa-permethyltitanocene [Ti(IV), (III) and (II)] complexes (V. Varga, J. Hiller, R. Gyepes, M. Polášek, P. Sedmera, U. Thewalt and K. Mach), 63

Cyclopentadienyl

Ansa-bis(cyclopentadienyl) complexes of niobium(III) and niobium(IV); X-ray structures of $[\text{Nb}(\eta\text{-C}_5\text{H}_4\text{-CMe}_2\text{-}\eta\text{-C}_5\text{H}_4)(\eta^2\text{-BH}_4)]$ and $[\text{Nb}(\eta\text{-C}_5\text{H}_4\text{-CMe}_2\text{-}\eta\text{-C}_5\text{H}_4)(\text{H})\text{PMe}_3]$ (N.J. Bailey, M.L.H. Green, M.A. Leech, J.F. Saunders and H.M. Tidswell), 111

Propylthiotetramethylcyclopentadienyl complexes of iron, titanium and zirconium. Structural characterization of $[\eta^5\text{-C}_5\text{Me}_4\text{SCH}_2\text{-CH}_2\text{CH}_3]_2\text{TiCl}_2$ (R. Broussier, C. Bourdon, O. Blacque, A. Vallat, M.M. Kubicki and B. Gautheron), 83

Synthesis and molecular structure of $[(t\text{-C}_4\text{H}_9\text{C}_5\text{H}_4)_2\text{Yb}(\text{THF})_2]\text{-}[\text{BPh}_4]\cdot\text{THF}$ and its catalytic activity for the polymerization of styrene (F. Yuan, Q. Shen and J. Sun), 241

Synthesis of the rhenium allyl chloride complex $\text{Cp}^*\text{Re}(\eta^3\text{-C}_3\text{H}_5)(\text{CO})\text{Cl}$ and reactions to give hydrido, phenyl and alkyl derivatives (Y.-X. He and D. Sutton), 49

Cyclopentadienyls

Preparation and characterization of the rhenium silyl esters ($\eta^5\text{-C}_5\text{Me}_5)(\text{CO})(\text{NO})\text{ReC(O)OSiR}_3$ ($\text{SiR}_3 = \text{SiMe}_2\text{Ph}$, SiEt_3) (M.D.B. Cavanaugh, S.M. Tetrick, C.J. Masi and A.R. Cutler), 41

Diastereoselective synthesis

Remote diastereoselective control via organoiron methodology: stereoselective preparation of 4,6-, 5,7- and 6,8-dien-2-ol (tricarbonyl)iron complexes (P.T. Bell, B. Dasgupta and W.A. Donaldson), 75

Diene

Structure and stereodynamic relationships in (η^4 -diene) ML_3 systems (P. McArdle, J. Skelton and A.R. Manning), 9

Diene complexes

Remote diastereoselective control via organoiron methodology: stereoselective preparation of 4,6-, 5,7- and 6,8-dien-2-ol (tricarbonyl)iron complexes (P.T. Bell, B. Dasgupta and W.A. Donaldson), 75

Diene tricarbonyliron complexes

Directed semi-hydrogenation of triple bonds in diene tricarbonyliron complexes (M. Laabassi, P. Mosset and R. Grée), 91

Dimerization

Synthesis, crystal structures and some properties of dimethylsilylene-bridged ansa-permethyltitanocene [Ti(IV), (III) and (II)] complexes (V. Varga, J. Hiller, R. Gyepes, M. Polášek, P. Sedmera, U. Thewalt and K. Mach), 63

Dimethylsilylene-bridged

Synthesis, crystal structures and some properties of dimethylsilylene-bridged ansa-permethyltitanocene [Ti(IV), (III) and (II)] complexes (V. Varga, J. Hiller, R. Gyepes, M. Polášek, P. Sedmera, U. Thewalt and K. Mach), 63

Dinuclear

Synthesis and structural characterisation of a new $\mu_2\text{-Te}$ bridged complex of molybdenum with oxo and imido ligands (P. Mathur, S. Ghose, Md.M. Hossain and H. Vahrenkamp), 185

Dinuclear amido-bridged complexes

A rhodium(I) amide dimer: synthesis, structural characterisation and preliminary reactivity studies (J.-J. Brunet, J.-C. Daran, D. Neibecker and L. Rosenberg), 251

Dithiocarbamate

Synthesis and characterisation of organoarsenic(III) xanthates and dithiocarbamates. X-ray crystal structures of $\text{RAs}(\text{S}_2\text{CNET}_2)_2$, $\text{R} = \text{Me}$ and Ph (S.S. Garje, V.K. Jain and E.R.T. Tieckink), 129

Dpmp

A-frame trinuclear complexes of platinum and palladium with a tridentate phosphine ligand. Insertion of d^{10} Pt(0) and Pd(0) fragments into a Pt-Pt σ -bond (T. Tanase, H. Takahata, H. Ukaji, M. Hasegawa and Y. Yamamoto), 247

Electrophilic substitution

Les bis-silanes bis-propargyliques comme précurseurs de bis(vinyliène)oxanes et oxépanes (P. Aubert et J. Pornet), 211

2D-EXSY NMR

Stereochemically non-rigid transition metal complexes of 2,6-bis[(1-phenylimino)ethyl]pyridine (BIP). Part 2. Dynamic NMR studies of *fac*-[ReX(CO)₃(BIP)] ($X = \text{Cl}$, Br, or I). Crystal structure of *fac*-[ReBr(CO)₃(BIP)] (K.G. Orrell, A.G. Osborne, V. Šík, M. Webba da Silva, M.B. Hursthorne, D.E. Hibbs, K.M. Abdul Malik and N.G. Vassilev), 171

Ferrocene

Propylthiotetramethylcyclopentadienyl complexes of iron, titanium and zirconium. Structural characterization of $[\eta^5\text{-C}_5\text{Me}_4\text{-CH}_2\text{CH}_3]_2\text{TiCl}_2$ (R. Broussier, C. Bourdon, O. Blacque, A. Vallat, M.M. Kubicki and B. Gautheron), 83

- $\text{SCH}_2\text{CH}_2\text{CH}_3\text{J}_2\text{TiCl}_2$ (R. Broussier, C. Bourdon, O. Blacque, A. Vallat, M.M. Kubicki and B. Gautheron), 83
- Fluxionality**
- Stereochemically non-rigid transition metal complexes of 2,6-bis[(1-phenyliminoethyl]pyridine (BIP). Part 2. Dynamic NMR studies of *fac*-[ReX(CO)₃(BIP)] (X = Cl, Br, or I). Crystal structure of *fac*-[ReBr(CO)₃(BIP)] (K.G. Orrell, A.G. Osborne, V. Šík, M. Webba da Silva, M.B. Hursthouse, D.E. Hibbs, K.M. Abdul Malik and N.G. Vassilev), 171
- Gas phase thermolysis**
- FT-IR study of the gas phase thermolysis of trimethylsilyl acetate (P.G. Harrison and A. Torr), 19
- Group 5**
- Ansa-bis(cyclopentadienyl)* complexes of niobium(III) and niobium(IV); X-ray structures of [Nb(η -C₅H₄-CMe₂- η -C₅H₄) \times (η ²-BH₄)] and [Nb(η -C₅H₄-CMe₂- η -C₅H₄)(H)PMe₃] (N.J. Bailey, M.L.H. Green, M.A. Leech, J.F. Saunders and H.M. Tidswell), 111
- Hydride**
- Synthesis of the rhenium allyl chloride complex Cp*Re(η ³-C₃H₅)(CO)Cl and reactions to give hydrido, phenyl and alkyl derivatives (Y.-X. He and D. Sutton), 49
- Hydrocarbyl**
- Hydrocarbyl derivatives of [UCl₂{HB(pz)}₂]: synthesis, characterization and reactivity studies towards protic substrates and ketones (M.P.C. Campello, M.J. Calhorda, Á. Domingos, A. Galvão, J.P. Leal, A. Pires de Matos and I. Santos), 223
- Imidazole**
- Trisimidazole complexes of ruthenium and osmium (S. Elgafi, L.D. Field, B.A. Messerle, I.E. Buys and T.W. Hambley), 119
- Imido**
- Synthesis and structural characterisation of a new μ_2 -Te bridged complex of molybdenum with oxo and imido ligands (P. Mathur, S. Ghose, Md.M. Hossain and H. Vahrenkamp), 185
- Insertion reaction**
- Reactions of RuHCl(CO)(PPh₃)₃ with 1-alkynols. Preparation and reactivity of hydroxyvinyl complexes (G. Jia, W.F. Wu, R.C.Y. Yeung and H. Xia), 31
- Iron**
- Remote diastereoselective control via organoiron methodology: stereoselective preparation of 4,6-, 5,7- and 6,8-dien-2-ol (tricarbonyl)iron complexes (P.T. Bell, B. Dasgupta and W.A. Donaldson), 75
- L-hexyne**
- Synthesis, crystal structures and some properties of dimethylsilylene-bridged *ansa*-permethyltitanocene [Ti(IV), (III) and (II)] complexes (V. Varga, J. Hiller, R. Gyenes, M. Polášek, P. Sedmera, U. Thewalt and K. Mach), 63
- Lithium anilide**
- A rhodium(I) amide dimer: synthesis, structural characterisation and preliminary reactivity studies (J.-J. Brunet, J.-C. Daran, D. Neibecker and L. Rosenberg), 251
- Metallocarboxylic acid**
- Preparation and characterization of the rhenium silyl esters (η ⁵-C₅Me₅)(CO)(NO)ReC(O)OSiR₃ (SiR₃ = SiMe₂Ph, SiEt₃) (M.D.B. Cavanaugh, S.M. Tetrick, C.J. Masi and A.R. Cutler), 41
- Methane**
- FT-IR study of the gas phase thermolysis of trimethylsilyl acetate (P.G. Harrison and A. Torr), 19
- Methyltrioxorhenium**
- Multiple bonds between transition metals and main-group elements, 163. Nitrogen-donor adducts of organorhenium(VII) oxides: structural and catalytic aspects (W.A. Herrmann, F.E. Kühn, M.R. Mattner, G.R.J. Artus, M.R. Geisberger and J.D.G. Correia), 203
- Molecular orbital calculations**
- Hydrocarbyl derivatives of [UCl₂{HB(pz)}₂]: synthesis, characterization and reactivity studies towards protic substrates and ketones (M.P.C. Campello, M.J. Calhorda, Á. Domingos, A. Galvão, J.P. Leal, A. Pires de Matos and I. Santos), 223
- Molybdenum**
- Synthesis and structural characterisation of a new μ_2 -Te bridged complex of molybdenum with oxo and imido ligands (P. Mathur, S. Ghose, Md.M. Hossain and H. Vahrenkamp), 185
- N-base adducts**
- Multiple bonds between transition metals and main-group elements, 163. Nitrogen-donor adducts of organorhenium(VII) oxides: structural and catalytic aspects (W.A. Herrmann, F.E. Kühn, M.R. Mattner, G.R.J. Artus, M.R. Geisberger and J.D.G. Correia), 203
- N-functionalized cyclopentadienyl**
- Synthese und Koordinationsverhalten Me₂NCH₂CH₂-funktionalisierter Metallocene von Titan, Vanadium und Chrom (M. Enders, K. Köhler, W. Frosch, H. Pritzkow und H. Lang), 163
- Niobium**
- Ansa-bis(cyclopentadienyl)* complexes of niobium(III) and niobium(IV); X-ray structures of [Nb(η -C₅H₄-CMe₂- η -C₅H₄) \times (η ²-BH₄)] and [Nb(η -C₅H₄-CMe₂- η -C₅H₄)(H)PMe₃] (N.J. Bailey, M.L.H. Green, M.A. Leech, J.F. Saunders and H.M. Tidswell), 111
- NOESY**
- Trisimidazole complexes of ruthenium and osmium (S. Elgafi, L.D. Field, B.A. Messerle, I.E. Buys and T.W. Hambley), 119
- Olefin epoxidation**
- Multiple bonds between transition metals and main-group elements, 163. Nitrogen-donor adducts of organorhenium(VII) oxides: structural and catalytic aspects (W.A. Herrmann, F.E. Kühn, M.R. Mattner, G.R.J. Artus, M.R. Geisberger and J.D.G. Correia), 203
- Osmium**
- Trisimidazole complexes of ruthenium and osmium (S. Elgafi, L.D. Field, B.A. Messerle, I.E. Buys and T.W. Hambley), 119
- Oxo**
- Synthesis and structural characterisation of a new μ_2 -Te bridged complex of molybdenum with oxo and imido ligands (P. Mathur, S. Ghose, Md.M. Hossain and H. Vahrenkamp), 185
- Palladium**
- A-frame trinuclear complexes of platinum and palladium with a tridentate phosphine ligand. Insertion of d¹⁰ Pt(0) and Pd(0) fragments into a Pt-Pt σ -bond (T. Tanase, H. Takahata, H. Ukaji, M. Hasegawa and Y. Yamamoto), 247
- Directed semi-hydrogenation of triple bonds in diene tricarbonyliron complexes (M. Laabassi, P. Mosset and R. Grée), 91
- Molecular structure of π -allyl palladium(II) complex, [Pd(η ³-PhCHCHCHPh)-((S,S)-chiraphos)]PF₆: a novel envelope conformation of chiral C₂-symmetric diphosphine (M. Yamaguchi, M. Yabuki, T. Yamagishi, M. Kondo and S. Kitagawa), 199
- Preparation and reactions of methylpalladium(II) and -platinum(II) azido complexes. The crystal structure of *trans*-PdMe(N₃)(PMe₃)₂ and *trans*-PdMe[CN₄(C₆H₁₁)](PMe₃)₂ (Y.-J. Kim, D.-H. Kim, J.-Y. Lee and S.-W. Lee), 189
- Phosphonic acid**
- Synthesis and characterization of an organometallic phosphonic acid: X-ray crystal structure of [η ⁶-*p*-C₆H₄(CH₂PO₃H₂)₂]Cr(CO)₃ (R.W. Deemie, J.C. Fettinger and D.A. Knight), 257
- Platinum**
- A-frame trinuclear complexes of platinum and palladium with a tridentate phosphine ligand. Insertion of d¹⁰ Pt(0) and Pd(0) fragments into a Pt-Pt σ -bond (T. Tanase, H. Takahata, H. Ukaji, M. Hasegawa and Y. Yamamoto), 247

- Preparation and reactions of methylpalladium(II) and -platinum(II) azido complexes. The crystal structure of *trans*-PdMe(N₃)(PMe₃)₂ and *trans*-PdMe[CN₄(C₆H₁₁)](PMe₃)₂ (Y.-J. Kim, D.-H. Kim, J.-Y. Lee and S.-W. Lee), 189
- Polyimidazole**
- Trisimidazole complexes of ruthenium and osmium (S. Elgafi, L.D. Field, B.A. Messerle, I.E. Buys and T.W. Hambley), 119
- Poly(pyrazolyl)borates**
- Hydrocarbyl derivatives of [UCl₂{HB(pz)}₃]₂: synthesis, characterization and reactivity studies towards protic substrates and ketones (M.P.C. Campello, M.J. Calhorda, Á. Domingos, A. Galvão, J.P. Leal, A. Pires de Matos and I. Santos), 223
- Propargylsilanes**
- Les bis-silanès bis-propargyliques comme précurseurs de bis(vinylidène)oxanes et oxépanes (P. Aubert et J. Pernet), 211
- Reactivity**
- Hydrocarbyl derivatives of [UCl₂{HB(pz)}₃]₂: synthesis, characterization and reactivity studies towards protic substrates and ketones (M.P.C. Campello, M.J. Calhorda, Á. Domingos, A. Galvão, J.P. Leal, A. Pires de Matos and I. Santos), 223
- Rhenium**
- Preparation and characterization of the rhenium silyl esters (η^5 -C₅Me₅)(CO)(NO)ReC(O)OSiR₃ (SiR₃ = SiMe₂Ph, SiEt₃) (M.D.B. Cavanaugh, S.M. Tetrick, C.J. Masi and A.R. Cutler), 41
- Stereochemically non-rigid transition metal complexes of 2,6-bis[(1-phenyliminoethyl]pyridine (BIP). Part 2. Dynamic NMR studies of *fac*-[ReX(CO)₃(BIP)] (X = Cl, Br, or I). Crystal structure of *fac*-[ReBr(CO)₃(BIP)] (K.G. Orrell, A.G. Osborne, V. Šík, M. Webba da Silva, M.B. Hursthouse, D.E. Hibbs, K.M. Abdul Malik and N.G. Vassilev), 171
- Synthesis of the rhenium allyl chloride complex Cp*Re(η^3 -C₃H₅)(CO)Cl and reactions to give hydrido, phenyl and alkyl derivatives (Y.-X. He and D. Sutton), 49
- Rhodium**
- A rhodium(I) amide dimer: synthesis, structural characterisation and preliminary reactivity studies (J.-J. Brunet, J.-C. Daran, D. Neibecker and L. Rosenberg), 251
- Ruthenium**
- Synthesis and spectroscopic characterisation of *cis*-Ru₄(CO)₁₂(μ_4 , η^2 -HC₂Ph) and *cis*-Ru₄(CO)₉(μ -CO)₂(μ_4 , η^2 -HC₂Ph)(μ_4 -Se). Crystal structure of *cis*-Ru₄(CO)₁₂(μ_4 , η^2 -HC₂Ph) (P. Mathur, S. Ghosh, Md.M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold and G.P.A. Yap), 57
- Trisimidazole complexes of ruthenium and osmium (S. Elgafi, L.D. Field, B.A. Messerle, I.E. Buys and T.W. Hambley), 119
- Ruthenium hydride**
- Reactions of RuHCl(CO)(PPh₃)₃ with 1-alkynols. Preparation and reactivity of hydroxyvinyl complexes (G. Jia, W.F. Wu, R.C.Y. Yeung and H. Xia), 31
- Selenium**
- Synthesis and spectroscopic characterisation of *cis*-Ru₄(CO)₁₂(μ_4 , η^2 -HC₂Ph) and *cis*-Ru₄(CO)₉(μ -CO)₂(μ_4 , η^2 -HC₂Ph)(μ_4 -Se). Crystal structure of *cis*-Ru₄(CO)₁₂(μ_4 , η^2 -HC₂Ph) (P. Mathur, S. Ghosh, Md.M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold and G.P.A. Yap), 57
- Semi-hydrogenation**
- Directed semi-hydrogenation of triple bonds in diene tricarbonyliron complexes (M. Laabassi, P. Mosset and R. Grée), 91
- Silane**
- Preparation and characterization of the rhenium silyl esters (η^5 -C₅Me₅)(CO)(NO)ReC(O)OSiR₃ (SiR₃ = SiMe₂Ph, SiEt₃) (M.D.B. Cavanaugh, S.M. Tetrick, C.J. Masi and A.R. Cutler), 41
- Silanes
- Aryltrisilane Si₃Ar_nH_{8-n} (Ar = Ph, p-Tol; n = 2–7) (K. Hassler and W. Köll), 145
- Synthese und Eigenschaften chlorierter und bromierter Aryltrisilane und Aryltetrasilane** (K. Hassler und W. Köll), 135
- Silicon**
- Aryltrisilane Si₃Ar_nH_{8-n} (Ar = Ph, p-Tol; n = 2–7) (K. Hassler and W. Köll), 145
- Synthese und Eigenschaften chlorierter und bromierter Aryltrisilane und Aryltetrasilane (K. Hassler und W. Köll), 135
- Silver(I)**
- Synthese und Koordinationsverhalten Me₂NCH₂CH₂-funktionalisierter Metallocene von Titan, Vanadium und Chrom (M. Enders, K. Köhler, W. Frosch, H. Pritzkow und H. Lang), 163
- Silyle**
- Preparation and characterization of the rhenium silyle esters (η^5 -C₅Me₅)(CO)(NO)ReC(O)OSiR₃ (SiR₃ = SiMe₂Ph, SiEt₃) (M.D.B. Cavanaugh, S.M. Tetrick, C.J. Masi and A.R. Cutler), 41
- ²⁹Si NMR
- Aryltrisilane Si₃Ar_nH_{8-n} (Ar = Ph, p-Tol; n = 2–7) (K. Hassler and W. Köll), 145
- Sn**
- Synthesis and some properties of bis- and tetrakis(triphenylstannyl)tetraphiafulvalenes and tetraiodotetrathiafulvalene (M. Sato and M.-a. Sensui), 1
- Sulfoxidation**
- Multiple bonds between transition metals and main-group elements, 163. Nitrogen-donor adducts of organorhenium(VII) oxides: structural and catalytic aspects (W.A. Herrmann, F.E. Kühn, M.R. Mattner, G.R.J. Artus, M.R. Geisberger and J.D.G. Correia), 203
- Sulphur**
- Propylthiotetramethylcyclopentadienyl complexes of iron, titanium and zirconium. Structural characterization of [η^5 -C₅Me₄-SCH₂CH₂CH₃]₂TiCl₂ (R. Broussier, C. Bourdon, O. Blacque, A. Vallat, M.M. Kubicki and B. Gautheron), 83
- Synthesis**
- Hydrocarbyl derivatives of [UCl₂{HB(pz)}₃]₂: synthesis, characterization and reactivity studies towards protic substrates and ketones (M.P.C. Campello, M.J. Calhorda, Á. Domingos, A. Galvão, J.P. Leal, A. Pires de Matos and I. Santos), 223
- Synthesis of the rhenium allyl chloride complex Cp*Re(η^3 -C₃H₅)(CO)Cl and reactions to give hydrido, phenyl and alkyl derivatives (Y.-X. He and D. Sutton), 49
- Tellurium**
- Synthesis and structural characterisation of a new μ_2 -Te bridged complex of molybdenum with oxo and imido ligands (P. Mathur, S. Ghose, Md.M. Hossain and H. Vahrenkamp), 185
- Titanium**
- Propylthiotetramethylcyclopentadienyl complexes of iron, titanium and zirconium. Structural characterization of [η^5 -C₅Me₄-SCH₂CH₂CH₃]₂TiCl₂ (R. Broussier, C. Bourdon, O. Blacque, A. Vallat, M.M. Kubicki and B. Gautheron), 83
- Synthesis, crystal structures and some properties of dimethylsilylene-bridged ansa-permethyltitanocene [Ti(IV), (III) and (II)] complexes (V. Varga, J. Hiller, R. Gyepes, M. Polášek, P. Sedmera, U. Thewalt and K. Mach), 63
- Titanium(IV)**
- Synthese und Koordinationsverhalten Me₂NCH₂CH₂-funktionalisierter Metallocene von Titan, Vanadium und Chrom (M. Enders, K. Köhler, W. Frosch, H. Pritzkow und H. Lang), 163
- Tricarbonyliron**
- Structure and stereodynamic relationships in (η^4 -diene)ML₃ systems (P. McArdle, J. Skelton and A.R. Manning), 9
- Trinuclear complexes**
- A-frame trinuclear complexes of platinum and palladium with a tridentate phosphine ligand. Insertion of d¹⁰ Pt(0) and Pd(0) fragments into a Pt–Pt σ -bond (T. Tanase, H. Takahata, H. Ukaji, M. Hasegawa and Y. Yamamoto), 247

Triphenylphosphine

A rhodium(I) amide dimer: synthesis, structural characterisation and preliminary reactivity studies (J.-J. Brunet, J.-C. Daran, D. Neibcker and L. Rosenberg), 251

Triphosphine

A-frame trinuclear complexes of platinum and palladium with a tridentate phosphine ligand. Insertion of d^{10} Pt(0) and Pd(0) fragments into a Pt–Pt σ -bond (T. Tanase, H. Takahata, H. Ukaji, M. Hasegawa and Y. Yamamoto), 247

Trisimidazole

Trisimidazole complexes of ruthenium and osmium (S. Elgafi, L.D. Field, B.A. Messerle, I.E. Buys and T.W. Hambley), 119

Tröger's base

Multiple bonds between transition metals and main-group elements, 163. Nitrogen-donor adducts of organorhenium(VII) oxides: structural and catalytic aspects (W.A. Herrmann, F.E. Kühn, M.R. Mattner, G.R.J. Artus, M.R. Geisberger and J.D.G. Correia), 203

Uranium

Hydrocarbyl derivatives of $[UCl_2(HB(pz)_3)_2]$: synthesis, characterization and reactivity studies towards protic substrates and ketones (M.P.C. Campello, M.J. Calhorda, Á. Domingos, A. Galvão, J.P. Leal, A. Pires de Matos and I. Santos), 223

Vanadium(II)

Synthese und Koordinationsverhalten $Me_2NCH_2CH_2$ -funktionalisierter Metallocene von Titan, Vanadium und Chrom (M. Enders, K. Köhler, W. Frosch, H. Pritzkow und H. Lang), 163

Xanthate

Synthesis and characterisation of organoarsenic(III) xanthates and dithiocarbamates. X-ray crystal structures of $RAs(S_2CNEt_2)_2$, $R = Me$ and Ph (S.S. Garje, V.K. Jain and E.R.T. Tiekkink), 129

X-ray diffraction

Synthesis and some properties of bis- and tetrakis(triphenylstanny)tetraphiafulvalenes and tetraiodotetraphiafulvalene (M. Sato and M.-a. Sensui), 1

Synthesis and spectroscopic characterisation of *closo*- $Ru_4(CO)_{12}(\mu_4,\eta^2-HC_2Ph)$ and *closo*- $Ru_4(CO)_9(\mu-CO)_2(\mu_4,\eta^2-HC_2Ph)(\mu_4-Se)$. Crystal structure of *closo*- $Ru_4(CO)_{12}(\mu_4,\eta^2-HC_2Ph)$ (P. Mathur, S. Ghosh, Md.M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold and G.P.A. Yap), 57

Ytterbium

Synthesis and molecular structure of $[(t-C_4H_9C_5H_4)_2Yb(THF)_2]BPh_4 \cdot THF$ and its catalytic activity for the polymerization of styrene (F. Yuan, Q. Shen and J. Sun), 241

Zirconium

Propylthiotetramethylcyclopentadienyl complexes of iron, titanium and zirconium. Structural characterization of $[\eta^5-C_5Me_4-SCH_2CH_2CH_3]_2TiCl_2$ (R. Broussier, C. Bourdon, O. Blacque, A. Vallat, M.M. Kubicki and B. Gautheron), 83