

## Subject Index of Volume 535

### Alkyne

Synthesis and spectroscopic properties of some new bi-, tri- and tetrametallic complexes of the type  $[M(CO)_3L]$ ,  $[M(CO)_4L_2]$  and  $[M(CO)_3L_3]$  ( $M = Cr, Mo, W$ ;  $L = [Wl_2(CO)(Ph_2P(CH_2)_2PPh(CH_2)_2PPh_2-P, P')(\eta^2-RC_2R')$ ) ( $R = R' = Me, Ph$ ;  $R = Me, R' = Ph$ ) (P.K. Baker and M.M. Meehan), 129

### Alkynes

Preparation, reactions, and infrared spectra of *fac*-(CO)<sub>3</sub>(P–P)Mn–Z complexes (P–P = DEPE, DPPE, DPPP; Z = H, OTs, OMe, OC(O)OMe, NCO, Cl, Br, N<sub>3</sub>) (G.Q. Li and M. Orchin), 43

### Alkynyl

Ethynylkomplexe des Rutheniums mit terminalen Hauptgruppenelement-Substituenten: Systematischer Aufbau metallgebundener Phosphoniumacetylid-Liganden  $R'R_2P^{(+)}-C\equiv C|^{(-)}$  (L. Dahleburg, A. Weiß und M. Moll), 195

### Aluminium compounds

Reactions of a carbosilylated methylenephosphonium ion with  $\pi$ -conjugated hydrocarbons (J. Thomaier, G. Alcaraz, H. Grützmacher, H. Hillebrecht, C. Marchand and U. Heim), 91

### Antitumor activity

Chiral phosphine ligands derived from sugars. 10. Syntheses, structure, characterization, and antitumor activity of the gold(I) complexes with sugar-substructure phosphine ligands (J.-C. Shi, L.-J. Chen, X.-Y. Huang, D.-X. Wu and B.-S. Kang), 17

### Aromatic amines

Formation of aromatic amines from dinitrogen complexes  $[Cp_2TiAr]_2N_2$  ( $Ar = C_6H_5, m\text{-}CH_3C_6H_4$ ) (E.G. Berkovich, V.S. Lenenko, L.I. Vyshinskaya, G.A. Vasil'eva, V.B. Shur and M.E. Vol'pin), 169

### Aromatic compound

Reductive elimination of Et–Et from NiEt<sub>2</sub>(bpy) promoted by electron-accepting aromatic compounds (T. Yamamoto and M. Abla), 209

### Aryllithiums

Formation of aromatic amines from dinitrogen complexes  $[Cp_2TiAr]_2N_2$  ( $Ar = C_6H_5, m\text{-}CH_3C_6H_4$ ) (E.G. Berkovich, V.S. Lenenko, L.I. Vyshinskaya, G.A. Vasil'eva, V.B. Shur and M.E. Vol'pin), 169

### Azido complexes

Preparation, reactions, and infrared spectra of *fac*-(CO)<sub>3</sub>(P–P)Mn–Z complexes (P–P = DEPE, DPPE, DPPP; Z = H, OTs, OMe, OC(O)OMe, NCO, Cl, Br, N<sub>3</sub>) (G.Q. Li and M. Orchin), 43

### Betaine

$Cp_2Z(\mu\text{-}C_4H_6)B(C_6F_5)_3$ , a first example of a stable unbridged homogeneous metallocene–betaine Ziegler catalyst system (J. Karl, G. Erker and R. Fröhlich), 59

### Biarylnickel(II) complex

Reductive elimination of Et–Et from NiEt<sub>2</sub>(bpy) promoted by electron-accepting aromatic compounds (T. Yamamoto and M. Abla), 209

### Bipyridine

Reductive elimination of Et–Et from NiEt<sub>2</sub>(bpy) promoted by electron-accepting aromatic compounds (T. Yamamoto and M. Abla), 209

### Bis(1-pyrazolyl)borates

Studies on some di- and triorganotin(IV) derivatives of bis(1-pyrazolyl)borates and some related compounds (D.K. Dey, M.K. Das and R.K. Bansal), 7

### <sup>11</sup>B/<sup>119</sup>Sn NMR spectroscopy

Studies on some di- and triorganotin(IV) derivatives of bis(1-pyrazolyl)borates and some related compounds (D.K. Dey, M.K. Das and R.K. Bansal), 7

### Carbene complexes

Mechanism of aminocarbene formation by nucleophilic attack on isocyanide ligands in platinum(II) 2-pyrazyl and 4-pyridyl complexes (L. Canovese, F. Visentin, P. Ugugliati, B. Crociani and F. Di Bianca), 69

### Carbohydrate

Chiral phosphine ligands derived from sugars. 10. Syntheses, structure, characterization, and antitumor activity of the gold(I) complexes with sugar-substructure phosphine ligands (J.-C. Shi, L.-J. Chen, X.-Y. Huang, D.-X. Wu and B.-S. Kang), 17

### Carbonyl

Mixed-metal cluster chemistry V. Syntheses and X-ray crystal structure of  $Cp_2Mo_2Ir_2(\mu_3\text{-CO})(\mu\text{-CO})_5(CO)_4$  (N.T. Lucas, M.G. Humphrey and D.C.R. Hockless), 175

### Carbonyl stretching frequencies

Preparation, reactions, and infrared spectra of *fac*-(CO)<sub>3</sub>(P–P)Mn–Z complexes (P–P = DEPE, DPPE, DPPP; Z = H, OTs, OMe, OC(O)OMe, NCO, Cl, Br, N<sub>3</sub>) (G.Q. Li and M. Orchin), 43

### Catalysis

Kinetics and mechanism of the reaction of photogenerated ( $\eta^1\text{-}(tetrachloromethane)pentacarbonylmetal(0)$  complexes,  $(\eta^1\text{-}(CCl_4)M(CO)_5$ ;  $M = Mo, W$ ) with 1-hexene: the initial steps in the creation of olefin metathesis catalysts (G.R. Dobson, J.P. Smit, W. Purcell and S. Ladogana), 63

### Cationic derivatives

Neutral and cationic di(*tert*-butyl)cyclopentadienyl titanium, zirconium and hafnium complexes. Dynamic NMR study of the ligand-free cations  $[M(1,3\text{-}Bu_2\text{-}\eta^5\text{-}C_5H_3)(\eta^5\text{-}C_5H_5)(CH_3)]^+$  ( $M = Zr, Hf$ ) (J.I. Amor, T. Cuena, M. Galakhov, P. Gómez-Sal, A. Manzanero and P. Royo), 155

### Chiral phosphine

Chiral phosphine ligands derived from sugars. 10. Syntheses, structure, characterization, and antitumor activity of the gold(I) complexes with sugar-substructure phosphine ligands (J.-C. Shi, L.-J. Chen, X.-Y. Huang, D.-X. Wu and B.-S. Kang), 17

### Chromium

Synthesis and spectroscopic properties of some new bi-, tri- and tetrametallic complexes of the type  $[M(CO)_5L]$ ,  $[M(CO)_4L_2]$  and

- [M(CO)<sub>3</sub>L<sub>3</sub>] (M = Cr, Mo, W; L = [WI<sub>2</sub>(CO)Ph<sub>2</sub>P(CH<sub>2</sub>)<sub>2</sub>PPh<sub>2</sub>(CH<sub>2</sub>)<sub>2</sub>PPh<sub>2</sub>-P,P']( $\eta^2$ -RC<sub>2</sub>R')] (R = R' = Me, Ph; R = Me, R' = Ph}) (P.K. Baker and M.M. Meehan), 129
- Cluster**
- Mixed-metal cluster chemistry V. Syntheses and X-ray crystal structure of Cp<sub>2</sub>Mo<sub>2</sub>Ir<sub>2</sub>( $\mu_3$ -CO)( $\mu$ -CO)<sub>5</sub>(CO)<sub>4</sub> (N.T. Lucas, M.G. Humphrey and D.C.R. Hockless), 175
- Crystal structure**
- Complexation of [ $\omega$ -diphenylphosphinoalkyl]diphenylphosphine sulfides with AgNO<sub>3</sub> (E.I. Matrosov, Z.A. Starikova, A.I. Yanovsky, D.I. Lobanov, I.M. Aladzheva, O.V. Bykhovskaya, Yu.T. Struchkov, T.A. Mastryukova and M.I. Kabachnik), 121
- Mixed-metal cluster chemistry V. Syntheses and X-ray crystal structure of Cp<sub>2</sub>Mo<sub>2</sub>Ir<sub>2</sub>( $\mu_3$ -CO)( $\mu$ -CO)<sub>5</sub>(CO)<sub>4</sub> (N.T. Lucas, M.G. Humphrey and D.C.R. Hockless), 175
- Reductive elimination of Et-Et from NiEt<sub>2</sub>(bpy) promoted by electron-accepting aromatic compounds (T. Yamamoto and M. Abla), 209
- Synthesis, characterization and structure of ferrocenylketimine complexes of platinum(II) (Y.J. Wu, L. Ding, H.X. Wang, Y.H. Liu, H.Z. Yuan and X.A. Mao), 49
- Cycloadditions**
- Reactions of a carbosilylated methylenephosphonium ion with  $\pi$ -conjugated hydrocarbons (J. Thomaier, G. Alcaraz, H. Grützmacher, H. Hillebrecht, C. Marchand and U. Heim), 91
- Cyclometallation**
- Synthesis, characterization and structure of ferrocenylketimine complexes of platinum(II) (Y.J. Wu, L. Ding, H.X. Wang, Y.H. Liu, H.Z. Yuan and X.A. Mao), 49
- Cyclopentadienyl**
- Mixed-metal cluster chemistry V. Syntheses and X-ray crystal structure of Cp<sub>2</sub>Mo<sub>2</sub>Ir<sub>2</sub>( $\mu_3$ -CO)( $\mu$ -CO)<sub>5</sub>(CO)<sub>4</sub> (N.T. Lucas, M.G. Humphrey and D.C.R. Hockless), 175
- Cyclopentadienyl derivatives**
- Neutral and cationic di(*tert*-butyl)cyclopentadienyl titanium, zirconium and hafnium complexes. Dynamic NMR study of the ligand-free cations [M(1,3-<sup>t</sup>Bu<sub>2</sub>- $\eta^5$ -C<sub>5</sub>H<sub>3</sub>) $\times$ ( $\eta^5$ -C<sub>5</sub>H<sub>5</sub>) $\times$ (CH<sub>3</sub>)]<sup>+</sup> (M = Zr, Hf) (J.I. Amor, T. Cuénca, M. Galakhov, P. Gómez-Sal, A. Manzanero and P. Royo), 155
- DIBAL-H**
- Synthesis and characterization of functionalized phosphonium ions, stabilized by two intramolecular dative P  $\leftarrow$  N bonds (J.-P. Bezemboes, F. Carré, C. Chuit, R.J.P. Corriu, A. Mehdi and C. Reyé), 81
- Dibutyltin(IV)**
- Studies on some di- and triorganotin(IV) derivatives of bis(1-pyrazolyl)borates and some related compounds (D.K. Dey, M.K. Das and R.K. Bansal), 7
- Dichlorodimethylzirconium**
- An efficient synthetic method of *ansa*-zirconocene dimethyl complexes via Me<sub>2</sub>ZrCl<sub>2</sub> (J.T. Park, B.W. Woo, S.C. Yoon and S.C. Shim), 29
- Dimethyltin(IV)**
- Studies on some di- and triorganotin(IV) derivatives of bis(1-pyrazolyl)borates and some related compounds (D.K. Dey, M.K. Das and R.K. Bansal), 7
- ansa-Dimethylzirconocene**
- An efficient synthetic method of *ansa*-zirconocene dimethyl complexes via Me<sub>2</sub>ZrCl<sub>2</sub> (J.T. Park, B.W. Woo, S.C. Yoon and S.C. Shim), 29
- Dinitrogen complexes**
- Formation of aromatic amines from dinitrogen complexes [Cp<sub>2</sub>TiAr]<sub>2</sub>-N<sub>2</sub> (Ar = C<sub>6</sub>H<sub>5</sub>, *m*-CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>) (E.G. Berkovich, V.S. Lenenko, L.I. Vyshinskaya, G.A. Vasil'eva, V.B. Shur and M.E. Vol'pin), 169
- Diphenyltin(IV)**
- Studies on some di- and triorganotin(IV) derivatives of bis(1-pyrazolyl)borates and some related compounds (D.K. Dey, M.K. Das and R.K. Bansal), 7
- Electrochemistry**
- Stereochemical rigidity in a trimetallic complex. X-ray crystal structure of *trans*-[Pd(( $\eta^5$ -C<sub>5</sub>H<sub>5</sub>)Fe(( $\eta^5$ -C<sub>5</sub>H<sub>4</sub>)-CH=N-N(CH<sub>3</sub>)<sub>2</sub>)<sub>2</sub>-Cl<sub>2</sub>] (C. López, R. Bosque, X. Solans and M. Font-Bardía), 99
- Ferrocene**
- Stereochemical rigidity in a trimetallic complex. X-ray crystal structure of *trans*-[Pd(( $\eta^5$ -C<sub>5</sub>H<sub>5</sub>)Fe(( $\eta^5$ -C<sub>5</sub>H<sub>4</sub>)-CH=N-N(CH<sub>3</sub>)<sub>2</sub>)<sub>2</sub>-Cl<sub>2</sub>] (C. López, R. Bosque, X. Solans and M. Font-Bardía), 99
- Synthesis, characterization and structure of ferrocenylketimine complexes of platinum(II) (Y.J. Wu, L. Ding, H.X. Wang, Y.H. Liu, H.Z. Yuan and X.A. Mao), 49
- Flash photolysis**
- Kinetics and mechanism of the reaction of photogenerated ( $\eta^1$ -(tetra-chloromethane)pentacarbonylmetal(0) complexes, ( $\eta^1$ -(CCl<sub>4</sub>)M-CO)<sub>5</sub>; M = Mo, W) with 1-hexene: the initial steps in the creation of olefin metathesis catalysts (G.R. Dobson, J.P. Smit, W. Purcell and S. Ladogana), 63
- Gold compound**
- Chiral phosphine ligands derived from sugars. 10. Syntheses, structure, characterization, and antitumor activity of the gold(I) complexes with sugar-substructure phosphine ligands (J.-C. Shi, L.-J. Chen, X.-Y. Huang, D.-X. Wu and B.-S. Kang), 17
- Hafnium**
- Neutral and cationic di(*tert*-butyl)cyclopentadienyl titanium, zirconium and hafnium complexes. Dynamic NMR study of the ligand-free cations [M(1,3-<sup>t</sup>Bu<sub>2</sub>- $\eta^5$ -C<sub>5</sub>H<sub>3</sub>) $\times$ ( $\eta^5$ -C<sub>5</sub>H<sub>5</sub>) $\times$ (CH<sub>3</sub>)]<sup>+</sup> (M = Zr, Hf) (J.I. Amor, T. Cuénca, M. Galakhov, P. Gómez-Sal, A. Manzanero and P. Royo), 155
- Halocarbons**
- Kinetics and mechanism of the reaction of photogenerated ( $\eta^1$ -(tetra-chloromethane)pentacarbonylmetal(0) complexes, ( $\eta^1$ -(CCl<sub>4</sub>)M-CO)<sub>5</sub>; M = Mo, W) with 1-hexene: the initial steps in the creation of olefin metathesis catalysts (G.R. Dobson, J.P. Smit, W. Purcell and S. Ladogana), 63
- Homogeneous catalysis**
- Cp<sub>2</sub>Zr( $\mu$ -C<sub>4</sub>H<sub>6</sub>)B(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub>, a first example of a stable unbridged homogeneous metallocene–betaaine Ziegler catalyst system (J. Karl, G. Erker and R. Fröhlich), 59
- Hydrazone**
- Stereochemical rigidity in a trimetallic complex. X-ray crystal structure of *trans*-[Pd(( $\eta^5$ -C<sub>5</sub>H<sub>5</sub>)Fe(( $\eta^5$ -C<sub>5</sub>H<sub>4</sub>)-CH=N-N(CH<sub>3</sub>)<sub>2</sub>)<sub>2</sub>-Cl<sub>2</sub>] (C. López, R. Bosque, X. Solans and M. Font-Bardía), 99
- Infrared spectroscopy**
- Studies on some di- and triorganotin(IV) derivatives of bis(1-pyrazolyl)borates and some related compounds (D.K. Dey, M.K. Das and R.K. Bansal), 7
- Iridium**
- Mixed-metal cluster chemistry V. Syntheses and X-ray crystal structure of Cp<sub>2</sub>Mo<sub>2</sub>Ir<sub>2</sub>( $\mu_3$ -CO)( $\mu$ -CO)<sub>5</sub>(CO)<sub>4</sub> (N.T. Lucas, M.G. Humphrey and D.C.R. Hockless), 175
- IR spectroscopy**
- Complexation of [ $\omega$ -diphenylphosphinoalkyl]diphenylphosphine sulfides with AgNO<sub>3</sub> (E.I. Matrosov, Z.A. Starikova, A.I.

- Yanovsky, D.I. Lobanov, I.M. Aladzheva, O.V. Bykhovskaya, Yu.T. Struchkov, T.A. Mastryukova and M.I. Kabachnik), 121
- Isocyanide complexes**
- Mechanism of aminocarbene formation by nucleophilic attack on isocyanide ligands in platinum(II) 2-pyrazyl and 4-pyridyl complexes (L. Canovese, F. Visentin, P. Uguagliati, B. Crociani and F. Di Bianca), 69
- Kinetics**
- Kinetics and mechanism of the reaction of photogenerated ( $\eta^1$ -(tetra-chloromethane)pentacarbonylmetal(0) complexes, ( $\eta^1$ -(CCl<sub>4</sub>)M-(CO)<sub>5</sub>; M = Mo, W) with 1-hexene: the initial steps in the creation of olefin methathesis catalysts (G.R. Dobson, J.P. Smit, W. Purcell and S. Ladogana), 63
- Kinetics and mechanism**
- Mechanism of aminocarbene formation by nucleophilic attack on isocyanide ligands in platinum(II) 2-pyrazyl and 4-pyridyl complexes (L. Canovese, F. Visentin, P. Uguagliati, B. Crociani and F. Di Bianca), 69
- Lithium**
- Formation of aromatic amines from dinitrogen complexes [Cp<sub>2</sub>TiAr]<sub>2</sub>-N<sub>2</sub> (Ar = C<sub>6</sub>H<sub>5</sub>, m-CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>) (E.G. Berkovich, V.S. Lenenko, L.I. Vyshinskaya, G.A. Vasil'eva, V.B. Shur and M.E. Vol'pin), 169
- Manganese diphosphine complexes**
- Preparation, reactions, and infrared spectra of *fac*-(CO)<sub>3</sub>(P-P)Mn-Z complexes (P-P = DEPE, DPPE, PPPP; Z = H, OTs, OMe, OC(O)OMe, NCO, Cl, Br, N<sub>3</sub>) (G.Q. Li and M. Orchin), 43
- Metallocenes**
- Cp<sub>2</sub>Zr( $\mu$ -C<sub>4</sub>H<sub>6</sub>)B(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub>, a first example of a stable unbridged homogeneous metallocene–betaine Ziegler catalyst system (J. Karl, G. Erker and R. Fröhlich), 59
- Methylenephosphonium salts**
- Reactions of a carbosilylated methylenephosphonium ion with  $\pi$ -conjugated hydrocarbons (J. Thomaier, G. Alcaraz, H. Grützmacher, H. Hillebrecht, C. Marchand and U. Heim), 91
- Molybdenum**
- Kinetics and mechanism of the reaction of photogenerated ( $\eta^1$ -(tetra-chloromethane)pentacarbonylmetal(0) complexes, ( $\eta^1$ -(CCl<sub>4</sub>)M-(CO)<sub>5</sub>; M = Mo, W) with 1-hexene: the initial steps in the creation of olefin methathesis catalysts (G.R. Dobson, J.P. Smit, W. Purcell and S. Ladogana), 63
- Mixed-metal cluster chemistry V. Syntheses and X-ray crystal structure of Cp<sub>2</sub>Mo<sub>2</sub>Ir<sub>2</sub>( $\mu_3$ -CO)( $\mu$ -CO)<sub>5</sub>(CO)<sub>4</sub> (N.T. Lucas, M.G. Humphrey and D.C.R. Hockless), 175
- Synthesis and spectroscopic properties of some new bi-, tri- and tetrametallic complexes of the type [M(CO)<sub>5</sub>L], [M(CO)<sub>4</sub>L<sub>2</sub>] and [M(CO)<sub>3</sub>L<sub>3</sub>] {M = Cr, Mo, W; L = [WI<sub>2</sub>(CO)(Ph<sub>2</sub>P(CH<sub>2</sub>)<sub>2</sub>PPh(CH<sub>2</sub>)<sub>2</sub>PPh<sub>2</sub>-P,P']( $\eta^2$ -RC<sub>2</sub>R')} (R = R' = Me, Ph; R = Me, R' = Ph} (P.K. Baker and M.M. Meehan), 129
- Nickel**
- Reductive elimination of Et-Et from NiEt<sub>2</sub>(bpy) promoted by electron-accepting aromatic compounds (T. Yamamoto and M. Abla), 209
- Nuclear magnetic resonance**
- Chiral phosphine ligands derived from sugars. 10. Syntheses, structure, characterization, and antitumor activity of the gold(I) complexes with sugar-substructure phosphine ligands (J.-C. Shi, L.-J. Chen, X.-Y. Huang, D.-X. Wu and B.-S. Kang), 17
- Nucleophilic attacks**
- Mechanism of aminocarbene formation by nucleophilic attack on isocyanide ligands in platinum(II) 2-pyrazyl and 4-pyridyl complexes (L. Canovese, F. Visentin, P. Uguagliati, B. Crociani and F. Di Bianca), 69
- Olefin metathesis**
- Kinetics and mechanism of the reaction of photogenerated ( $\eta^1$ -(tetra-chloromethane)pentacarbonylmetal(0) complexes, ( $\eta^1$ -(CCl<sub>4</sub>)M-(CO)<sub>5</sub>; M = Mo, W) with 1-hexene: the initial steps in the creation of olefin methathesis catalysts (G.R. Dobson, J.P. Smit, W. Purcell and S. Ladogana), 63
- Palladium(II)**
- Stereochemical rigidity in a trimetallic complex. X-ray crystal structure of *trans*-[Pd(( $\eta^5$ -C<sub>5</sub>H<sub>5</sub>)Fe[(<math>\eta^5</math>-C<sub>5</sub>H<sub>4</sub>)-CH=N-N(CH<sub>3</sub>)<sub>2</sub>]<sub>2</sub>Cl<sub>2</sub>] (C. López, R. Bosque, X. Solans and M. Font-Bardia), 99
- Phosphaethene**
- Preparation and photoisomerization of 2-phosphaethenylbenzenes having more than one phosphorus–carbon double bond (H. Kawanami, K. Toyota and M. Yoshifuiji), 1
- Phosphine–phosphine sulphide**
- Complexation of [ $\omega$ -diphenylphosphinoalkyl]diphenylphosphine sulphides with AgNO<sub>3</sub> (E.I. Matrosov, Z.A. Starikova, A.I. Yanovsky, D.I. Lobanov, I.M. Aladzheva, O.V. Bykhovskaya, Yu.T. Struchkov, T.A. Mastryukova and M.I. Kabachnik), 121
- Phosphonioethynyl**
- Ethynylkomplexe des Rutheniums mit terminalen Hauptgruppenelement-Substituenten: Systematischer Aufbau metallgebundener Phosphoniumacetylid-Liganden R'R<sub>2</sub>P<sup>(+)</sup>-C≡C|<sup>(-)</sup> (L. Dahenberg, A. Weiß und M. Moll), 195
- Phosphonium salts**
- Reactions of a carbosilylated methylenephosphonium ion with  $\pi$ -conjugated hydrocarbons (J. Thomaier, G. Alcaraz, H. Grützmacher, H. Hillebrecht, C. Marchand and U. Heim), 91
- Phosphorus**
- Preparation and photoisomerization of 2-phosphaethenylbenzenes having more than one phosphorus–carbon double bond (H. Kawanami, K. Toyota and M. Yoshifuiji), 1
- Phosphorus NMR**
- Complexation of [ $\omega$ -diphenylphosphinoalkyl]diphenylphosphine sulphides with AgNO<sub>3</sub> (E.I. Matrosov, Z.A. Starikova, A.I. Yanovsky, D.I. Lobanov, I.M. Aladzheva, O.V. Bykhovskaya, Yu.T. Struchkov, T.A. Mastryukova and M.I. Kabachnik), 121
- Platinum**
- Synthesis, characterization and structure of ferrocenylketimine complexes of platinum(II) (Y.J. Wu, L. Ding, H.X. Wang, Y.H. Liu, H.Z. Yuan and X.A. Mao), 49
- Platinum complexes**
- Mechanism of aminocarbene formation by nucleophilic attack on isocyanide ligands in platinum(II) 2-pyrazyl and 4-pyridyl complexes (L. Canovese, F. Visentin, P. Uguagliati, B. Crociani and F. Di Bianca), 69
- Polymerization**
- Cp<sub>2</sub>Zr( $\mu$ -C<sub>4</sub>H<sub>6</sub>)B(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub>, a first example of a stable unbridged homogeneous metallocene–betaine Ziegler catalyst system (J. Karl, G. Erker and R. Fröhlich), 59
- Reductive elimination**
- Reductive elimination of Et-Et from NiEt<sub>2</sub>(bpy) promoted by electron-accepting aromatic compounds (T. Yamamoto and M. Abla), 209
- Ruthenium**
- Ethynylkomplexe des Rutheniums mit terminalen Hauptgruppenelement-Substituenten: Systematischer Aufbau metallgebundener Phosphoniumacetylid-Liganden R'R<sub>2</sub>P<sup>(+)</sup>-C≡C|<sup>(-)</sup> (L. Dahenberg, A. Weiß und M. Moll), 195
- Silver**
- Complexation of [ $\omega$ -diphenylphosphinoalkyl]diphenylphosphine sulphides with AgNO<sub>3</sub> (E.I. Matrosov, Z.A. Starikova, A.I.

- Yanovsky, D.I. Lobanov, I.M. Aladzheva, O.V. Bykhovskaya, Yu.T. Struchkov, T.A. Mastryukova and M.I. Kabachnik), 121
- Silylation**
- Silylation of silylketenes (S.N. Nikolaeva, S.V. Ponomarev, V.S. Petrosyan and J. Lorberth), 213
  - Stabilized phosphonium ion
    - Synthesis and characterization of functionalized phosphonium ions, stabilized by two intramolecular dative  $P \leftarrow N$  bonds (J.-P. Bézombes, F. Carré, C. Chuit, R.J.P. Corriu, A. Mehdi and C. Reyé), 81  - Steric protection
    - Preparation and photoisomerization of 2-phosphaethenylbenzenes having more than one phosphorus–carbon double bond (H. Kawanami, K. Toyota and M. Yoshifiji), 1
- Thermal isomerization**
- Silylation of silylketenes (S.N. Nikolaeva, S.V. Ponomarev, V.S. Petrosyan and J. Lorberth), 213
- Titanium**
- Formation of aromatic amines from dinitrogen complexes  $[Cp_2TiAr]_2N_2$  ( $Ar = C_6H_5$ ,  $m\text{-}CH_3C_6H_4$ ) (E.G. Berkovich, V.S. Lenenko, L.I. Vyshinskaya, G.A. Vasil'eva, V.B. Shur and M.E. Vol'pin), 169
  - Neutral and cationic di(*tert*-butyl)cyclopentadienyl titanium, zirconium and hafnium complexes. Dynamic NMR study of the ligand-free cations  $[M(1,3\text{-}^1Bu_2\text{-}\eta^5\text{-}C_5H_3)(\eta^5\text{-}C_5H_5)(CH_3)]^+$  ( $M = Zr, Hf$ ) (J.I. Amor, T. Cuenca, M. Galakhov, P. Gómez-Sal, A. Manzanero and P. Royo), 155
- Triazolato complexes**
- Preparation, reactions, and infrared spectra of *fac*-(CO)<sub>3</sub>(P–P)Mn–Z complexes (P–P = DEPE, DPPE, DPPP; Z = H, OTs, OMe, OC(O)OMe, NCO, Cl, Br, N<sub>3</sub>) (G.Q. Li and M. Orchin), 43
- 1-Trimethylsiloxy-2-silylethyne**
- Silylation of silylketenes (S.N. Nikolaeva, S.V. Ponomarev, V.S. Petrosyan and J. Lorberth), 213
- Trimethylsilyl(silyl)ketenes**
- Silylation of silylketenes (S.N. Nikolaeva, S.V. Ponomarev, V.S. Petrosyan and J. Lorberth), 213
- Triphus**
- Synthesis and spectroscopic properties of some new bi-, tri- and tetrametallic complexes of the type  $[M(CO)_3L]$ ,  $[M(CO)_4L_2]$  and  $[M(CO)_3L_3]$  ( $M = Cr, Mo, W$ ; L =  $[Wl_2(CO)(Ph_2P(CH_2)_2PPh_2)]$  ( $R = R' = Me, Ph$ ; R = Me, R' = Ph)) (P.K. Baker and M.M. Meehan), 129
- 2,4,6-Tri-*t*-butylphenyl**
- Preparation and photoisomerization of 2-phosphaethenylbenzenes having more than one phosphorus–carbon double bond (H. Kawanami, K. Toyota and M. Yoshifiji), 1
- Tungsten**
- Kinetics and mechanism of the reaction of photogenerated ( $\eta^1$ -tetra-chloromethane)pentacarbonylmetal(0) complexes, ( $\eta^1\text{-}(CCl_4)M(CO)_5$ ; M = Mo, W) with 1-hexene: the initial steps in the creation of olefin metathesis catalysts (G.R. Dobson, J.P. Smit, W. Purcell and S. Ladogana), 63
  - Synthesis and spectroscopic properties of some new bi-, tri- and tetrametallic complexes of the type  $[M(CO)_3L]$ ,  $[M(CO)_4L_2]$  and  $[M(CO)_3L_3]$  ( $M = Cr, Mo, W$ ; L =  $[Wl_2(CO)(Ph_2P(CH_2)_2PPh_2)]$  ( $R = R' = Me, Ph$ ; R = Me, R' = Ph)) (P.K. Baker and M.M. Meehan), 129
- X-ray crystallographic analysis**
- Preparation and photoisomerization of 2-phosphaethenylbenzenes having more than one phosphorus–carbon double bond (H. Kawanami, K. Toyota and M. Yoshifiji), 1
- X-ray diffraction**
- Chiral phosphine ligands derived from sugars. 10. Syntheses, structure, characterization, and antitumor activity of the gold(I) complexes with sugar-substructure phosphine ligands (J.-C. Shi, L.-J. Chen, X.-Y. Huang, D.-X. Wu and B.-S. Kang), 17
- X-ray structure analysis**
- Synthesis and characterization of functionalized phosphonium ions, stabilized by two intramolecular dative  $P \leftarrow N$  bonds (J.-P. Bézombes, F. Carré, C. Chuit, R.J.P. Corriu, A. Mehdi and C. Reyé), 81
- Ziegler catalysts**
- $Cp_2^*\text{Zr}(\mu\text{-}C_4H_6)B(C_6F_5)_3$ , a first example of a stable unbridged homogeneous metallocene–betaine Ziegler catalyst system (J. Karl, G. Erker and R. Fröhlich), 59
- Zirconium**
- Neutral and cationic di(*tert*-butyl)cyclopentadienyl titanium, zirconium and hafnium complexes. Dynamic NMR study of the ligand-free cations  $[M(1,3\text{-}^1Bu_2\text{-}\eta^5\text{-}C_5H_3)(\eta^5\text{-}C_5H_5)(CH_3)]^+$  ( $M = Zr, Hf$ ) (J.I. Amor, T. Cuenca, M. Galakhov, P. Gómez-Sal, A. Manzanero and P. Royo), 155