

JOURNAL OF ORGANOMETALLIC CHEMISTRY, VOL. 372 (1989)**SUBJECT INDEX****Antimony**

Organo-transition-metal hexafluoro arsenates and antimonates, chemical and biological aspects of (P. Gowik, T. Klapötke), (372) 33

Arsenic

Organo-transition-metal hexafluoro arsenates and antimonates, chemical and biological aspects of (P. Gowik, T. Klapötke), (372) 33

Transition metal complexes of (2-(2-methoxyethoxy)ethyl)diphenylphosphine and (2-(2-methoxyethoxyethyl)dimethylarsine, synthesis and characterization of (V.V.S. Reddy, J.E. Whitten, K.A. Redmill, A. Varshney, G.M. Gray), (372) 207

Boron

Tripledecker complexes with bridging 1*H*-borole ligands, synthetic and mechanistic studies on (G.E. Herberich, U. Büschges, B.A. Dunne, B. Hessner, N. Klaff, D.P.J. Köffer, K. Peters), (372) 53

Chromium

$C_5H_5Fe(CO)_2(\eta^1-CH_2SCH_3)$, photochemical behaviour and use in formation of $C_5H_5Fe(CO)_2[\eta^1-CH_2S(CH_3)MLn]$ with M = Cr, Mo, W, Mn (A. Leboeuf, J.C. Leblanc, C. Moïse), (372) 391

Cobalticinium pentacarbonylmanganate(-I), photoredox reaction induced by outer-sphere metal to metal charge transfer excitation of (H. Kunkely, A. Vogler), (372) C29

Ruthenium carbonyl hydroformylation system, EXAFS infrared and kinetic studies on (J. Evans, G. Jingxing, H. Leach, A.C. Street), (372) 61

Tricarbonylchromium complexes of aromatic *N,N*-dialkylamides, barriers to rotation about the C(O)-N bond in (A. Gryff-Keller, P. Szczecinski, H. Koziel), (372) 225

Tripledecker complexes with bridging 1*H*-borole ligands, synthetic and mechanistic studies on (G.E. Herberich, U. Büschges, B.A. Dunne, B. Hessner, N. Klaff, D.P.J. Köffer, K. Peters), (372) 53

Cobalt

Carbonyl complexes, role in homogeneous hydrogenation of CO (B.D. Dombek), (372) 151

Cobalticinium pentacarbonylmanganate(-I), photoredox reaction induced by outer-sphere metal to metal charge transfer excitation of (H. Kunkely, A. Vogler), (372) C29

Cobalt(II) reductive carbonylation in the presence of diphenylphosphine; synthesis and structure of (PPN)[Co(CO)₃(PPh₂OMe)] and MeCOC(CO)₂(PPh₂H)(PPh₂OMe) (S. Vastag, L. Markó, A.L. Rheingold), (372) 141

Fluorocarbon containing clusters (D. Lentz, H. Michael), (372) 109

Group 4 metallocene derived carbene complex chemistry (G. Erker, F. Sosna, U. Hoffmann) (372) 41

Mesitylenetetracobaltnonacarbonyl, reaction with $[Mo(CO)_3C_5H_5]_2$ of; syntheses and structures of the

- clusters $C_5H_5(CO)_2MoCo_3(CO)_6(\mu-CO)_3$ and $(C_5H_5)_2(CO)_3Mo_2Co_2(CO)_4(\mu-CO)_3$ (V.S. Kaganovich, Yu.L. Slovokhotov, A.V. Mironov, Yu.T. Struchkov, M.I. Rybinskaya), (372) 339
- Mixed metal clusters, structural and reactivity trends (T.A. Pakkanen, J. Pursiainen, T. Venäläinen, T.T. Pakkanen), (372) 129
- R_3PAuN_3 , cluster synthesis by photolysis of; crystal structure of $[(Ph_3PAu)_7Mo(CO)_3]OH$ and $[(Ph_3PAu)_6AuCo_2(CO)_6]NO_3$ (G. Beuter, J. Strähle), (372) 67
- Tetracobalt cluster $Co_4(CO)_{10}(\mu-PPh)_2$, reaction of Ph_2PH with; sequential CO replacement and X-ray crystal structure of $Co_4(CO)_8(\mu_4-PPh)_2(Ph_2PH)_2$ (M.-J. Don, M.G. Richmond, W.H. Watson, A. Nagl), (372) 417
- Tripledecker complexes with bridging 1*H*-borole ligands, synthetic and mechanistic studies on (G.E. Herberich, U. Büschges, B.A. Dunne, B. Hessner, N. Klaff, D.P.J. Köffer, K. Peters), (372) 53

Europium

- Naphthalene complexes of ytterbium, synthesis and reactivity of (M.N. Bochkarev, A.A. Trifonov, E.A. Fedorova, N.S. Emelyanova, T.A. Basalgina, G.S. Kalinina, G.A. Razuvaev), (372) 217

Germanium

- 1,3-Dioxo-6-aza-2-germacyclooctanes, ^{73}Ge NMR spectra of (Ě. Kupče, E. Lukevics, O.D. Flid, N.A. Viktorov, T.K. Gar), (372) 187
- Organogermanium hexacoordinate compounds, ^{73}Ge NMR of (Ě. Kupče, L.M. Ignatovich, E. Lukevics), (372) 189

Gold

- Bis(triphenylphosphine)gold tricyanomethanide, $[(PPh_3)_2Au]^+ [C(CN)_3]^-$, synthesis and crystal structure of (T.V. Baukova, D.N. Kravtsov, L.G. Kuz'mina, N.V. Dvortsova, M.A. Poray-Koshits, E.G. Perevalova), (372) 465
- Electron-rich metal centres (Au, Pt) as sources of organometallic complexes with unusual features (R. Usón), (372) 171
- Large organometallic clusters, electronic structure of (R.E. Benfield), (372) 163
- R_3PAuN_3 , cluster synthesis by photolysis of; crystal structure of $[(Ph_3PAu)_7Mo(CO)_3]OH$ and $[(Ph_3PAu)_6AuCo_2(CO)_6]NO_3$ (G. Beuter, J. Strähle), (372) 67

Iridium

- Transition metal complexes, reaction with methyl formate of (W. Keim, J. Becker, A.M. Trzeciak), (372) 447
- Tripledecker complexes with bridging 1*H*-borole ligands, synthetic and mechanistic studies on (G.E. Herberich, U. Büschges, B.A. Dunne, B. Hessner, N. Klaff, D.P.J. Köffer, K. Peters), (372) 53

Iron

- Bimetallic hydrocarbon-bridged complexes by nucleophilic attack of carbonylmetalates to coordinated unsaturated hydrocarbons (W. Beck, B. Niemer, J. Breimair, J. Heidrich), (372) 79
- Bis(η^5 -pentamethylcyclopentadienyl)metal derivatives and related complexes, mass spectroscopy of (F. Geoffrey, N. Cloke, J.P. Day, A.M. Greenway, K.R. Seddon, A.A. Shimran, A.C. Swain), (372) 231
- Carbon monoxide commercial conversion to fuels and chemicals (M.E. Dry), (372) 117
- $C_5H_5Fe(CO)_2(\eta^1-CH_2SCH_3)$, photochemical behaviour and use in formation of $C_5H_5Fe(CO)_2[\eta^1-CH_2S(CH_3)MLn]$ with $M = Cr, Mo, W, Mn$ (A. Leboeuf, J.C. Leblanc, C. Moïse), (372) 391
- Dicarbonylbis(trimethylphosphite)iron groupings, reactions with propinal acetals of (C. Löwe, H.-U. Hund, H. Berke), (372) 295
- Fluorocarbon containing clusters (D. Lentz, H. Michael), (372) 109

- Group 4 metallocene derived carbene complex chemistry (G. Erker, F. Sosna, U. Hoffmann) (372) 41
- Mixed metal clusters, structural and reactivity trends (T.A. Pakkanen, J. Pursiainen, T. Venäläinen, T.T. Pakkanen), (372) 129
- Nitrosyl complexes, double electron transfer reductions of; $\text{NO}_3^- \rightleftharpoons \text{NH}_3$ conversion in the nitrogen cycle (D. Sellmann), (372) 99
- Pentacoordinate iron complexes, η^2 -coordination in (R. Birk, H. Berke, H.-U. Hund, G. Huttner, L. Zsolnai, L. Dahlenburg, U. Behrens, T. Sielisch), (372) 397
- Tin-iron carbonyl clusters from the reaction of stannane, SnH_4 , with $\text{Fe}_2(\text{CO})_9$; the crystal structure of $\text{SnFe}_5(\text{CO})_{19}$ (S.G. Anema, K.M. Mackay, B.K. Nicholson), (372) 25
- Transition metal isoxazole derivatives, preparation of (V.N. Kalinin, T.V. Rozantseva, P.V. Petrovskii, A.S. Batsanov, Yu.T. Struchkov), (372) 287
- Tripledecker complexes with bridging 1*H*-borole ligands, synthetic and mechanistic studies on (G.E. Herberich, U. Büschges, B.A. Dunne, B. Hessner, N. Klaff, D.P.J. Köffer, K. Peters), (372) 53

Manganese

- Bimetallic hydrocarbon-bridged complexes by nucleophilic attack of carbonylmetalates to coordinated unsaturated hydrocarbons (W. Beck, B. Niemer, J. Breimair, J. Heidrich), (372) 79
- $\text{C}_5\text{H}_5(\text{CO})_2\text{MnTCNE}$, synthesis from $[\text{C}_5\text{H}_5(\text{CO})_2\text{MnXPh}]_n$ (X = S, Se, Te, $n = 1, 2$) of: solid state structure and magnetism of (H. Braunwarth, G. Huttner, L. Zsolnai), (372) C23
- $\text{C}_5\text{H}_5\text{Fe}(\text{CO})_2(\eta^1\text{-CH}_2\text{SCH}_3)$, photochemical behaviour and use in formation of $\text{C}_5\text{H}_5\text{Fe}(\text{CO})_2[\eta^1\text{-CH}_2\text{S}(\text{CH}_3)\text{MLn}]$ with M = Cr, Mo, W, Mn (A. Leboeuf, J.C. Leblanc, C. Moïse), (372) 391
- Cobalticinium pentacarbonylmanganate(-I), photoredox reaction induced by outer-sphere metal to metal charge transfer excitation of (H. Kunkely, A. Vogler), (372) C29
- (*exo*-5-Dialkylphosphono-*exo*-6-*R*- η^4 -cyclohexadiene)manganese dicarbonylnitrosyl compounds, conversion of arenes to cyclohexa-1,3-dienes via (T.-H. Hyeon, Y.K. Chung), (372) C12

Metallocenes

- Group 4 metallocene derived carbene complex chemistry (G. Erker, F. Sosna, U. Hoffmann) (372) 41
- Organo-transition-metal hexafluoro arsenates and antimonates, chemical and biological aspects of (P. Gowik, T. Klapötke), (372) 33
- Tripledecker complexes with bridging 1*H*-borole ligands, synthetic and mechanistic studies on (G.E. Herberich, U. Büschges, B.A. Dunne, B. Hessner, N. Klaff, D.P.J. Köffer, K. Peters), (372) 53

Molybdenum

- Bis(η^5 -pentamethylcyclopentadienyl)metal derivatives and related complexes, mass spectroscopy of (F. Geoffrey, N. Cloke, J.P. Day, A.M. Greenway, K.R. Seddon, A.A. Shimran, A.C. Swain), (372) 231
- $\text{C}_5\text{H}_5\text{Fe}(\text{CO})_2(\eta^1\text{-CH}_2\text{SCH}_3)$, photochemical behaviour and use in formation of $\text{C}_5\text{H}_5\text{Fe}(\text{CO})_2[\eta^1\text{-CH}_2\text{S}(\text{CH}_3)\text{MLn}]$ with M = Cr, Mo, W, Mn (A. Leboeuf, J.C. Leblanc, C. Moïse), (372) 391
- Hydridotris(benzotriazol-1-yl)borate derivatives of the group 6 metal carbonyls, synthesis and structure of (K.-B. Shiu, F.-M. Shen, S.-L. Wang, S.-C. Wei), (372) 251
- Mesitylenetetracobaltonacarbonyl, reaction with $[\text{Mo}(\text{CO})_3\text{C}_5\text{H}_5]_2$ of: syntheses and structures of the clusters $\text{C}_5\text{H}_5(\text{CO})_2\text{MoCo}_3(\text{CO})_6(\mu\text{-CO})_3$ and $(\text{C}_5\text{H}_5)_2(\text{CO})_3\text{Mo}_2\text{Co}_2(\text{CO})_4(\mu\text{-CO})_3$ (V.S. Kaganovich, Yu.L. Slovokhotov, A.V. Mironov, Yu.T. Struchkov, M.I. Rybinskaya), (372) 339
- Nitrosyl complexes, double electron transfer reductions of; $\text{NO}_3^- \rightleftharpoons \text{NH}_3$ conversion in the nitrogen cycle (D. Sellmann), (372) 99
- R_3PAuN_3 , cluster synthesis by photolysis of: crystal structure of $[(\text{Ph}_3\text{PAu})_7\text{Mo}(\text{CO})_3]\text{OH}$ and $[(\text{Ph}_3\text{PAu})_6\text{AuCo}_2(\text{CO})_6]\text{NO}_3$ (G. Beuter, J. Strähle), (372) 67
- Ruthenium carbonyl hydroformylation system. EXAFS infrared and kinetic studies on (J. Evans, G. Jingxing, H. Leach, A.C. Street), (372) 61
- Transition metal complexes of (2-(2-methoxyethoxy)ethyl)diphenylphosphine and (2-(2-methoxyethoxy)ethyl)dimethylarsine, synthesis and characterization of (V.V.S. Reddy, J.E. Whitten, K.A. Redmill, A. Varshney, G.M. Gray), (372) 207

Transition metal isoxazole derivatives, preparation of (V.N. Kalinin, T.V. Rozantseva, P.V. Petrovskii, A.S. Batsanov, Yu.T. Struchkov), (372) 287

Tripledecker complexes with bridging 1*H*-borole ligands, synthetic and mechanistic studies on (G.E. Herberich, U. Büschges, B.A. Dunne, B. Hessner, N. Klaff, D.P.J. Köffer, K. Peters), (372) 53

Nickel

Polyhalogenoalkane addition to olefins, homogeneously catalysed by divalent arylnickel complexes (D.M. Grove, A.H.M. Verschuuren, G. van Koten, J.A.M. van Beek), (372) C1

Niobium

Tripledecker complexes with bridging 1*H*-borole ligands, synthetic and mechanistic studies on (G.E. Herberich, U. Büschges, B.A. Dunne, B. Hessner, N. Klaff, D.P.J. Köffer, K. Peters), (372) 53

Osmium

η^3 -Allylundecacarbonylosmium tetrafluoroborate, synthesis, crystal and molecular structure of (T. Asunta, K. Rissanen, V.V. Kriviykh, M.I. Rybinskaya), (372) 411

$C_5H_5WO_3(CO)_9(\mu-O)(\mu_3-CCH_2Tol)$, interaction with phosphorus donors of; crystal structure of $C_5H_5WO_3(CO)_8(PPh_2Me)(\mu-O)(\mu_3-CCH_2Tol)$ (Y. Chi, J.R. Shapley, M.R. Churchill, J.C. Fettingler), (372) 273

Large organometallic clusters, electronic structure of (R.E. Benfield), (372) 163

Palladium

Palladium(II)-chloranilate complexes, factors influencing linkage isomer preference in (W.-Y. Jeong, R.A. Holwerda), (372) 453

Transition metal complexes, reaction with methyl formate of (W. Keim, J. Becker, A.M. Trzeciak), (372) 447

Transition metal complexes of (2-(2-methoxyethoxy)ethyl)diphenylphosphine and (2-(2-methoxyethoxy)ethyl)dimethylarsine, synthesis and characterization of (V.V.S. Reddy, J.E. Whitten, K.A. Redmill, A. Varshney, G.M. Gray), (372) 207

Phosphorus

Bis(triphenylphosphine)gold tricyanomethanide, $[(PPh_3)_2Au]^+ [C(CN)_3]^-$, synthesis and crystal structure of (T.V. Baukova, D.N. Kravtsov, L.G. Kuz'mina, N.V. Dvortsova, M.A. Poray-Koshits, E.G. Perevalova), (372) 465

Cobalt(II) reductive carbonylation in the presence of diphenylphosphine; synthesis and structure of $(PPN)[Co(CO)_3(PPh_2OMe)]$ and $MeCOCOC(CO)_2(PPh_2H)(PPh_2OMe)$ (S. Vastag, L. Markó, A.L. Rheingold), (372) 141

(*exo*-5-Dialkylphosphono-*exo*-6-*R*- η^4 -cyclohexadiene)manganese dicarbonylnitrosyl compounds, conversion of arenes to cyclohexa-1,3-dienes via (T.-H. Hyeon, Y.K. Chung), (372) C12

α -Diazophosphane, structural characterization of; crystal structure of bis[bis(diisopropylamino)phosphanyl]diazomethane $[(i-Pr_2N)_2P]_2CN_2$ (M.J. Menu, M. Dartiguenave, Y. Dartiguenave, J.J. Bonnet, G. Bertrand, A. Baceiredo), (372) 201

Polyhalogenoalkane addition to olefins, homogeneously catalysed by divalent arylnickel complexes (D.M. Grove, A.H.M. Verschuuren, G. van Koten, J.A.M. van Beek), (372) C1

$Ru_3(CO)_9(PPh_3)_3$, starting material for synthesis of binuclear ruthenium(I) complexes; crystal structure of $Ru_2(\mu-L_2)(CO)_4(PPh_3)_2$ ($H_2L_2 = 1,8$ -diaminonaphthalene) (P.L. Andreu, J.A. Cabeza, V. Riera, F. Robert, Y. Jeannin), (372) C15

Tetracobalt cluster $Co_4(CO)_{10}(\mu-PPh)_2$, reaction of Ph_2PH with; sequential CO replacement and X-ray crystal structure of $Co_4(CO)_8(\mu_4-PPh)_2(Ph_2PH)_2$ (M.-J. Don, M.G. Richmond, W.H. Watson, A. Nagl), (372) 417

Transition metal complexes of (2-(2-methoxyethoxy)ethyl)diphenylphosphine and (2-(2-methoxyethoxy)ethyl)dimethylarsine, synthesis and characterization of (V.V.S. Reddy, J.E. Whitten, K.A. Redmill, A. Varshney, G.M. Gray), (372) 207

Platinum

Electron-rich metal centres (Au, Pt) as sources of organometallic complexes with unusual features (R. Usón), (372) 171

Platinum(II) derivatives, reaction with bis(pyrazolyl)propane of; cleavage of a C(sp³)-N bond in a bis(pyrazolyl)alkane promoted by platinum(II) derivatives; crystal structure of *cis*-Pt(pzH)₂Cl₂ (pzH = pyrazole) (M.A. Cinellu, S. Stoccoro, G. Minghetti, A.L. Bandini, G. Banditelli, B. Bovio), (372) 311

Transition metal complexes of (2-(2-methoxyethoxy)ethyl)diphenylphosphine and (2-(2-methoxyethoxy)ethyl)dimethylarsine, synthesis and characterization of (V.V.S. Reddy, J.E. Whitten, K.A. Redmill, A. Varshney, G.M. Gray), (372) 207

Rhenium

Bimetallic hydrocarbon-bridged complexes by nucleophilic attack of carbonylmetallates to coordinated unsaturated hydrocarbons (W. Beck, B. Niemer, J. Breimair, J. Heidrich), (372) 79

Bis(η^5 -pentamethylcyclopentadienyl)metal derivatives and related complexes, mass spectroscopy of (F. Geoffrey, N. Cloke, J.P. Day, A.M. Greenway, K.R. Seddon, A.A. Shimran, A.C. Swain), (372) 231

Methyl(trioxo)rhenium, reactions with bases of; crystal structure of sodium benzo-15-crown-15-per-rhenate (W.A. Herrmann, J.G. Kuchler, G. Weichselbaumer, E. Herdtweck, P. Kirpof), (372) 351

Methyl(trioxo)rhenium(VII), formation of adducts with bases and aromatic compounds; structure of CH₃ReO₃ · H₂NC₆H₅ (W.A. Herrmann, G. Weichselbaumer, E. Herdtweck), (372) 371

Triangulo rhenium metal cluster compounds vibrational characteristics of μ -bridging hydride ligands in (C.E. Anson, U.A. Jayasoriya, G. D'Alfonso, P.L.L. Stanghellini), (372) 85

Rhodium

Bis(η^5 -pentamethylcyclopentadienyl)metal derivatives and related complexes, mass spectroscopy of (F. Geoffrey, N. Cloke, J.P. Day, A.M. Greenway, K.R. Seddon, A.A. Shimran, A.C. Swain), (372) 231

Carbonyl complexes, role in homogeneous hydrogenation of CO (B.D. Dombek), (372) 151

Large organometallic clusters, electronic structure of (R.E. Benfield), (372) 163

Mixed metal clusters, structural and reactivity trends (T.A. Pakkanen, J. Pursiainen, T. Venäläinen, T.T. Pakkanen), (372) 129

Rh(η^5 -C₅H₄Z)(PPh₃)₂ (Z = H, CO₂Me), reaction of elemental sulfur with formation of RhS₄, RhS₅, RhS₆, and (RhS₂)₂ catenated metallocycle complexes (Y. Wakatsuki, H. Yamazaki, C. Cheng), (372) 437

Transition metal complexes, reaction with methyl formate of (W. Keim, J. Becker, A.M. Trzeciak), (372) 447

Tripledecker complexes with bridging 1*H*-borole ligands, synthetic and mechanistic studies on (G.E. Herberich, U. Büschges, B.A. Dunne, B. Hessner, N. Klaff, D.P.J. Köffer, K. Peters), (372) 53

Ruthenium

Bimetallic hydrocarbon-bridged complexes by nucleophilic attack of carbonylmetallates to coordinated unsaturated hydrocarbons (W. Beck, B. Niemer, J. Breimair, J. Heidrich), (372) 79

Bis(η^5 -pentamethylcyclopentadienyl)metal derivatives and related complexes, mass spectroscopy of (F. Geoffrey, N. Cloke, J.P. Day, A.M. Greenway, K.R. Seddon, A.A. Shimran, A.C. Swain), (372) 231

Carbonyl complexes, role in homogeneous hydrogenation of CO (B.D. Dombek), (372) 151

Mixed metal clusters, structural and reactivity trends (T.A. Pakkanen, J. Pursiainen, T. Venäläinen, T.T. Pakkanen), (372) 129

- $\text{Ru}_3(\text{CO})_9(\text{PPh}_3)_3$, starting material for synthesis of binuclear ruthenium(I) complexes; crystal structure of $\text{Ru}_2(\mu\text{-L}_2)(\text{CO})_4(\text{PPh}_3)_2$ ($\text{H}_2\text{L}_2 = 1,8\text{-diaminonaphthalene}$) (P.L. Andreu, J.A. Cabeza, V. Riera, F. Robert, Y. Jeannin), (372) C15
- Ruthenium carbonyl hydroformylation system, EXAFS infrared and kinetic studies on (J. Evans, G. Jingxing, H. Leach, A.C. Street), (372) 61
- Transition metal complexes of (2-(2-methoxyethoxy)ethyl)diphenylphosphine and (2-(2-methoxyethoxy)ethyl)dimethylarsine, synthesis and characterization of (V.V.S. Reddy, J.E. Whitten, K.A. Redmill, A. Varshney, G.M. Gray), (372) 207
- Tripledecker complexes with bridging 1*H*-borole ligands, synthetic and mechanistic studies on (G.E. Herberich, U. Büschges, B.A. Dunne, B. Hessner, N. Klaff, D.P.J. Köffer, K. Peters), (372) 53

Samarium

- Naphthalene complexes of ytterbium, synthesis and reactivity of (M.N. Bochkarev, A.A. Trifonov, E.A. Fedorova, N.S. Emelyanova, T.A. Basalgina, G.S. Kalinina, G.A. Razuvaev), (372) 217

Selenium

- $\text{C}_5\text{H}_5(\text{CO})_2\text{MnTCNE}$, synthesis from $[\text{C}_5\text{H}_5(\text{CO})_2\text{MnXPh}]_n$ ($\text{X} = \text{S, Se, Te, } n = 1, 2$) of; solid state structure and magnetism of (H. Braunwarth, G. Huttner, L. Zsolnai), (372) C23

Silicon

- Alkynes and alkynylsilanes, halogenation of (M.I. Al-Hassan), (372) 183
- Fluoride ion-induced hydrosilylation of aldehydes and ketones under phase-transfer conditions (Yu. Goldberg, E. Abele, M. Shymanska, E. Lukevics), (372) C9
- Methyl(trioxo)rhenium, reactions with bases of; crystal structure of sodium benzo-15-crown-15-perhenate (W.A. Herrmann, J.G. Kuchler, G. Weichselbaumer, E. Herdtweck, P. Kirpof), (372) 351

Silver

- Electron-rich metal centres (Au, Pt) as sources of organometallic complexes with unusual features (R. Usón), (372) 171

Sulphur

- Bimetallic hydrocarbon-bridged complexes by nucleophilic attack of carbonylmetallates to coordinated unsaturated hydrocarbons (W. Beck, B. Niemer, J. Breimair, J. Heidrich), (372) 79
- $\text{C}_5\text{H}_5(\text{CO})_2\text{MnTCNE}$, synthesis from $[\text{C}_5\text{H}_5(\text{CO})_2\text{MnXPh}]_n$ ($\text{X} = \text{S, Se, Te, } n = 1, 2$) of; solid state structure and magnetism of (H. Braunwarth, G. Huttner, L. Zsolnai), (372) C23
- Nitrosyl complexes, double electron transfer reductions of; $\text{NO}_3^- \rightleftharpoons \text{NH}_3$ conversion in the nitrogen cycle (D. Sellmann), (372) 99
- $\text{Rh}(\eta^5\text{-C}_5\text{H}_4\text{Z})(\text{PPh}_3)_2$ ($\text{Z} = \text{H, CO}_2\text{Me}$), reaction of elemental sulfur with formation of RhS_4 , RhS_5 , RhS_6 , and $(\text{RhS}_2)_2$ catenated metallacycle complexes (Y. Wakatsuki, H. Yamazaki, C. Cheng), (372) 437

Tantalum

- Tripledecker complexes with bridging 1*H*-borole ligands, synthetic and mechanistic studies on (G.E. Herberich, U. Büschges, B.A. Dunne, B. Hessner, N. Klaff, D.P.J. Köffer, K. Peters), (372) 53

Tellurium

- $\text{C}_5\text{H}_5(\text{CO})_2\text{MnTCNE}$, synthesis from $[\text{C}_5\text{H}_5(\text{CO})_2\text{MnXPh}]_n$ ($\text{X} = \text{S, Se, Te, } n = 1, 2$) of; solid state structure and magnetism of (H. Braunwarth, G. Huttner, L. Zsolnai), (372) C23

Tin

- Dicarboxylato-tetraorganodistannoxane: $\{[{}^n\text{Bu}_2\text{Sn}(\text{O}_2\text{CC}_5\text{H}_4\text{N})]_2\text{O}\}_2$, crystal structure of (C.S. Parulekar, V.K. Jain, T.K. Das, A.R. Gupta, B.F. Hoskins, E.R.T. Tiekink), (372) 193
- Tin-iron carbonyl clusters from the reaction of stannane, SnH_4 , with $\text{Fe}_2(\text{CO})_9$; the crystal structure of $\text{SnFe}_5(\text{CO})_{19}$ (S.G. Anema, K.M. Mackay, B.K. Nicholson), (372) 25
- Tri- and di-organotin(IV) 8-quinolinethiolates, ^{119}Sn , ^{15}N , ^{13}C and ^1H NMR of (A. Lyčka, J. Jirman, J. Holeček, I. Tkáč), (372) 327

Titanium

- Organo-transition-metal hexafluoro arsenates and antimonates, chemical and biological aspects of (P. Gowik, T. Klapötke), (372) 33

Trans. Metals – General

- Carbon monoxide: feedstock for chemicals, present and future (W. Keim), (372) 15
- Ludwig Mond, his life and works (H.L. Roberts), (372) 1

Tungsten

- Bis(η^5 -pentamethylcyclopentadienyl)metal derivatives and related complexes, mass spectroscopy of (F. Geoffrey, N. Cloke, J.P. Day, A.M. Greenway, K.R. Seddon, A.A. Shimran, A.C. Swain), (372) 231
- $\text{C}_5\text{H}_5\text{Fe}(\text{CO})_2(\eta^1\text{-CH}_2\text{SCH}_3)$, photochemical behaviour and use in formation of $\text{C}_5\text{H}_5\text{Fe}(\text{CO})_2[\eta^1\text{-CH}_2\text{S}(\text{CH}_3)\text{MLn}]$ with $\text{M} = \text{Cr}, \text{Mo}, \text{W}, \text{Mn}$ (A. Leboeuf, J.C. Leblanc, C. Moise), (372) 391
- $\text{C}_5\text{H}_5\text{WOS}_3(\text{CO})_9(\mu\text{-O})(\mu_3\text{-CCH}_2\text{Tol})$, interaction with phosphorus donors of; crystal structure of $\text{C}_5\text{H}_5\text{WOS}_3(\text{CO})_8(\text{PPh}_2\text{Me})(\mu\text{-O})(\mu_3\text{-CCH}_2\text{Tol})$ (Y. Chi, J.R. Shapley, M.R. Churchill, J.C. Fettingler), (372) 273
- Group 4 metallocene derived carbene complex chemistry (G. Erker, F. Sosna, U. Hoffmann) (372) 41
- Hydridotris(benzotriazol-1-yl)borate derivatives of the group 6 metal carbonyls, synthesis and structure of (K.-B. Shiu, F.-M. Shen, S.-L. Wang, S.-C. Wei), (372) 251
- Ruthenium carbonyl hydroformylation system, EXAFS infrared and kinetic studies on (J. Evans, G. Jingxing, H. Leach, A.C. Street), (372) 61
- Tripledecker complexes with bridging 1*H*-borole ligands, synthetic and mechanistic studies on (G.E. Herberich, U. Büschges, B.A. Dunne, B. Hessner, N. Klaff, D.P.J. Köffer, K. Peters), (372) 53
- Tungsten(II), preparation and spectral properties of $[\text{W}(\text{CO})\text{L}(\text{dppm})(\eta^2\text{-MeC}_2\text{Me})][\text{BF}_4]$ (L = neutral monodentate oxygen and sulphur donor ligands); crystal structure of $[\text{W}(\text{CO})\{\text{SC}(\text{NH}_2)_2\}(\text{dppm})(\eta^2\text{-MeC}_2\text{Me})][\text{ClO}_4]$ (P.K. Baker, K.R. Flower, P.A. Bates, M.B. Hursthouse), (372) 263

Vanadium

- Organo-transition-metal hexafluoro arsenates and antimonates, chemical and biological aspects of (P. Gowik, T. Klapötke), (372) 33
- Tripledecker complexes with bridging 1*H*-borole ligands, synthetic and mechanistic studies on (G.E. Herberich, U. Büschges, B.A. Dunne, B. Hessner, N. Klaff, D.P.J. Köffer, K. Peters), (372) 53

Ytterbium

- Naphthalene complexes of ytterbium, synthesis and reactivity of (M.N. Bochkarev, A.A. Trifonov, E.A. Fedorova, N.S. Emelyanova, T.A. Basalgina, G.S. Kalinina, G.A. Razuvaev), (372) 217

Zirconium

- Group 4 metallocene derived carbene complex chemistry (G. Erker, F. Sosna, U. Hoffmann) (372) 41