

Subject Index of Volume 496

Alkyl

Syntheses and characterization of diruthenium(III) alkyl–alkyl and alkyl–alkynyl complexes with two bridging thiolate ligands [Cp* RuR(μ-SPRⁱ)₂ RuCp* R'] (Cp* = η⁵-C₅Me₅). X-ray structure of [Cp* Ru(CH₂CH₂Ph)(μ-SPRⁱ)₂ RuCp*(CH₂CH₂Ph)] (A. Takahashi, Y. Mizobe, T. Tanase and M. Hidai), 109

Alkyne

Bis(triisopropylarsan)- und Bis(triisopropylstiban)-Rhodium(I)-Komplexe mit Isonitrilen, Olefinen, Alkinen und Diinen als Liganden (H. Werner, P. Schwab, A. Heinemann und P. Steinert), 207

Metallorganische Verbindungen des Kupfers. VIII. Untersuchungen über die Koordinationschemie von heteroatomverbrückten Bisalkinen am Beispiel von Kupfer(I)-halogenid- und -trifluormethylsulfonat-Komplexen (G. Schmidt, N. Schittenhelm und U. Behrens), 49

Alkynes, Nitrogen ylide complexes

Reaction of aminocarbene complexes of chromium with alkynes. IV. New transformations of the nitrogen ylide complexes derived therefrom (C. Bouancheau, M. Rudler, E. Chelain, H. Rudler, J. Vaissermann and J.-C. Daran), 127

Amides

Organometallic compounds of the lanthanides. XCVII. Synthesis and crystal structures of monomeric bis(ethyltetramethylcyclopentadienyl) amide and alkyl derivatives of the lanthanides (H. Schumann, E.C.E. Rosenthal, G. Kociok-Köhn, G.A. Molander and J. Winterfeld), 233

Aminocarbene complexes

Reaction of aminocarbene complexes of chromium with alkynes. IV. New transformations of the nitrogen ylide complexes derived therefrom (C. Bouancheau, M. Rudler, E. Chelain, H. Rudler, J. Vaissermann and J.-C. Daran), 127

Antimony

Antimony: annual survey covering the year 1993 (L.D. Freedman and G.O. Doak), 137

Aryl

Structural studies on aryl bismuth halides and halogenoanions. Part 4. Neutral Lewis base adducts of aryl bismuth dibromide and diaryl bismuth bromide compounds (C.J. Carmalt, A.H. Cowley, A. Decken and N.C. Norman), 59

Bismuth

Bismuth: annual survey covering the year 1993 (G.O. Doak and L.D. Freedman), 1

Structural studies on aryl bismuth halides and halogenoanions. Part 4. Neutral Lewis base adducts of aryl bismuth dibromide and diaryl bismuth bromide compounds (C.J. Carmalt, A.H. Cowley, A. Decken and N.C. Norman), 59

Boron

Palladium(0)-catalyzed carbonylation of aryl and alkenyl boronic acids with carbon monoxide leading to esters and ketones. Transformation of a C–B bond to a C–CO bond (C.S. Cho, T. Ohe and S. Uemura), 221

Bulky ligands

Hochsubstituierte Decabenzylmetallocene: Synthese und Strukturklärung von Deca(4-acetylbenzyl)ferrocen Fe[C₅(CH₂C₆H₄-C(O)CH₃)₅]₂ (H. Schumann, K. Sührling und R. Weimann), C5

Carbonyl

Reaction of [H₂Ru₃Rh(CO)₁₂][−] cluster anion with AuPPh₃Cl and structural characterization of AuHRh₂Ru₃(CO)₁₃(PPh₃)₂ by X-ray diffraction and ³¹P and ¹H NMR spectroscopy (H.J. Kakkonen, L. Tunkkari, M. Ahlgrèn, J. Pursiainen and T.A. Pakkanen), 93

Carbonylation

Palladium(0)-catalyzed carbonylation of aryl and alkenyl boronic acids with carbon monoxide leading to esters and ketones. Transformation of a C–B bond to a C–CO bond (C.S. Cho, T. Ohe and S. Uemura), 221

Catalysis

Selective addition of hydrosilanes to 1,3-dienes catalyzed by polyamide-supported metal complex catalysts (Z.M. Michalska, B. Ostaszewski and K. Strzelec), 19

Chromium

Reaction of aminocarbene complexes of chromium with alkynes. IV. New transformations of the nitrogen ylide complexes derived therefrom (C. Bouancheau, M. Rudler, E. Chelain, H. Rudler, J. Vaissermann and J.-C. Daran), 127

Cluster

Reaction of [H₂Ru₃Rh(CO)₁₂][−] cluster anion with AuPPh₃Cl and structural characterization of AuHRh₂Ru₃(CO)₁₃(PPh₃)₂ by X-ray diffraction and ³¹P and ¹H NMR spectroscopy (H.J. Kakkonen, L. Tunkkari, M. Ahlgrèn, J. Pursiainen and T.A. Pakkanen), 93

¹³C NMR

Transmission of electronic effects via a SiMe₂ spacer in 4-mono- and 4,4'-disubstituted diphenyldimethylsilanes: ²⁹Si and ¹³C NMR spectroscopy and PM3 semi-empirical calculations (C.A. Van Walree, X.Y. Lauteslager, A.M.A. Van Wageningen, J.W. Zwikker and L.W. Jenneskens), 117

Complexes

Metallorganische Verbindungen des Kupfers. VIII. Untersuchungen über die Koordinationschemie von heteroatomverbrückten Bisalkinen am Beispiel von Kupfer(I)-halogenid- und -trifluormethylsulfonat-Komplexen (G. Schmidt, N. Schittenhelm und U. Behrens), 49

Structural studies on aryl bismuth halides and halogenoanions. Part 4. Neutral Lewis base adducts of aryl bismuth dibromide and diaryl bismuth bromide compounds (C.J. Carmalt, A.H. Cowley, A. Decken and N.C. Norman), 59

Copper

Metallorganische Verbindungen des Kupfers. VIII. Untersuchungen über die Koordinationschemie von heteroatomverbrückten Bisalkinen am Beispiel von Kupfer(I)-halogenid- und -trifluormethylsulfonat-Komplexen (G. Schmidt, N. Schittenhelm und U. Behrens), 49

Crystal structure

Organometallic compounds of the lanthanides. XC VII. Synthesis and crystal structures of monomeric bis(ethyltetramethylcyclopentadienyl) amide and alkyl derivatives of the lanthanides (H. Schumann, E.C.E. Rosenthal, G. Kociok-Köhn, G.A. Molander and J. Winterfeld), 233

Reaction of $[\text{H}_2\text{Ru}_3\text{Rh}(\text{CO})_{12}]^-$ cluster anion with AuPPh_3Cl and structural characterization of $\text{AuHRh}_2\text{Ru}_3(\text{CO})_{13}(\text{PPh}_3)_2$ by X-ray diffraction and ^{31}P and ^1H NMR spectroscopy (H.J. Kakkonen, L. Tunkkari, M. Ahlgrèn, J. Pursiainen and T.A. Pakkanen), 93

Synthesis and X-ray structural investigation of triindenyl tetrahydrofuranato praseodymium (S. Wang, D. Kong, Z. Ye and X. Huang), 37

 μ -Cyanoalkylidene complexes

Redox chemistry and substitution reactions of the μ -cyanoalkylidene complexes $[\text{Fe}_2(\text{CO})_2(\text{cp})_2(\mu\text{-CO})\{\mu\text{-C}(\text{CN})(\text{X})\}]^{n+}$ ($n = 0, \text{X} = \text{CN}, \text{H}, \text{Me}, \text{SMe}, \text{OMe}, \text{OEt}, \text{OPh}, \text{OCH}_2\text{CH}=\text{CH}_2, \text{PEt}_2$, or NC_5H_{10} ; $n = 1, \text{X} = \text{PMe}_2\text{Ph}$) (S. Bordoni, L. Busetto, F. Calderoni, L. Carlucci, F. Laschi, P. Zanello and V. Zanotti), 27

Davy reagent

Reaction of η^4 -ketene complexes of iron with a phosphorus-sulfur ylide (Davy reagent): Insertion of sulfur into a carbon-iron bond with formation of ferrathiolactones (A.C. Cano, R.A. Toscano, S. Bernès, O.G. Mellado, C. Alvarez-Toledano and H. Rudler), 153

Decarbonylation reactions

Synthese und Eigenschaften des Diferriosulfans $(\text{CpFe}(\text{CO})_2)_2\text{S}$ und der Di- und Triferriosulf(ox)onium-Salze $[(\text{CpFe}(\text{CO})_2)_2\text{S}(\text{O})_n\text{Cl}]\text{Cl}$ ($n = 0, 1$) und $[(\text{CpFe}(\text{CO})_2)_3\text{S}]\text{Cl}$ (I.-P. Lorenz und K. Thurow), 191

Diferriosulphane

Synthese und Eigenschaften des Diferriosulfans $(\text{CpFe}(\text{CO})_2)_2\text{S}$ und der Di- und Triferriosulf(ox)onium-Salze $[(\text{CpFe}(\text{CO})_2)_2\text{S}(\text{O})_n\text{Cl}]\text{Cl}$ ($n = 0, 1$) und $[(\text{CpFe}(\text{CO})_2)_3\text{S}]\text{Cl}$ (I.-P. Lorenz und K. Thurow), 191

Diferrocenylfluoromethane

Redox-responsive surfactants: synthesis of 1,1-diferrocenyl-*n*-alkanes ($\text{C}_1, \text{C}_5, \text{C}_7, \text{C}_{19}$) via reaction of (diferrocenyl)methyl carbocation with carbanions (B. Bildstein, P. Denifl and K. Wurst), 175

Diferrocenylmethyl cation

Redox-responsive surfactants: synthesis of 1,1-diferrocenyl-*n*-alkanes ($\text{C}_1, \text{C}_5, \text{C}_7, \text{C}_{19}$) via reaction of (diferrocenyl)methyl carbocation with carbanions (B. Bildstein, P. Denifl and K. Wurst), 175

1,1-Diferrocenyl-*n*-alkane

Redox-responsive surfactants: synthesis of 1,1-diferrocenyl-*n*-alkanes ($\text{C}_1, \text{C}_5, \text{C}_7, \text{C}_{19}$) via reaction of (diferrocenyl)methyl carbocation with carbanions (B. Bildstein, P. Denifl and K. Wurst), 175

Dithioimidodiphosphinato ligand

Synthesis, spectroscopic characterization and crystal and molecular structure of tetrakis(carbonyl)(tetraphenyldithioimidodiphosphinato)manganese(I), $\text{Mn}(\text{CO})_4[(\text{SPPH}_2)_2\text{N}]$ (N. Zúñiga-Villareal, C. Silvestru, M.R. Lezama, S. Hernández-Ortega and C.A. Toledano), 169

Diyne

Bis(triisopropylarsan)- und Bis(triisopropylstiban)-Rhodium(I)-Komplexe mit Isonitrilen, Olefinen, Alkinen und Diinen als Liganden (H. Werner, P. Schwab, A. Heinemann und P. Steinert), 207

Dynamics

Intermolecular and intramolecular coordination interactions in solutions of *N*-(dimethylchlorosilylmethyl)acetamides (V.V. Negrebetsky, V.V. Negrebetsky, A.G. Shipov, E.P. Kramarova and Y.I. Baukov), 103

Electrochemistry

Redox chemistry and substitution reactions of the μ -cyanoalkylidene complexes $[\text{Fe}_2(\text{CO})_2(\text{cp})_2(\mu\text{-CO})\{\mu\text{-C}(\text{CN})(\text{X})\}]^{n+}$ ($n = 0, \text{X} = \text{CN}, \text{H}, \text{Me}, \text{SMe}, \text{OMe}, \text{OEt}, \text{OPh}, \text{OCH}_2\text{CH}=\text{CH}_2, \text{PEt}_2$, or NC_5H_{10} ; $n = 1, \text{X} = \text{PMe}_2\text{Ph}$) (S. Bordoni, L. Busetto, F. Calderoni, L. Carlucci, F. Laschi, P. Zanello and V. Zanotti), 27

EPR

Redox chemistry and substitution reactions of the μ -cyanoalkylidene complexes $[\text{Fe}_2(\text{CO})_2(\text{cp})_2(\mu\text{-CO})\{\mu\text{-C}(\text{CN})(\text{X})\}]^{n+}$ ($n = 0, \text{X} = \text{CN}, \text{H}, \text{Me}, \text{SMe}, \text{OMe}, \text{OEt}, \text{OPh}, \text{OCH}_2\text{CH}=\text{CH}_2, \text{PEt}_2$, or NC_5H_{10} ; $n = 1, \text{X} = \text{PMe}_2\text{Ph}$) (S. Bordoni, L. Busetto, F. Calderoni, L. Carlucci, F. Laschi, P. Zanello and V. Zanotti), 27

Ferrathiolactones

Reaction of η^4 -ketene complexes of iron with a phosphorus-sulfur ylide (Davy reagent): Insertion of sulfur into a carbon-iron bond with formation of ferrathiolactones (A.C. Cano, R.A. Toscano, S. Bernès, O.G. Mellado, C. Alvarez-Toledano and H. Rudler), 153

Ferrocene

Hochsubstituierte Decabenzylmetallocene: Synthese und Strukturklärung von Deca(4-acetylbenzyl)ferrocen $\text{Fe}[\text{C}_5(\text{CH}_2\text{C}_6\text{H}_4\text{C}(\text{O})\text{CH}_3)_5]_2$ (H. Schumann, K. Sühling und R. Weimann), C5

Friedel-Crafts-Acylation

Hochsubstituierte Decabenzylmetallocene: Synthese und Strukturklärung von Deca(4-acetylbenzyl)ferrocen $\text{Fe}[\text{C}_5(\text{CH}_2\text{C}_6\text{H}_4\text{C}(\text{O})\text{CH}_3)_5]_2$ (H. Schumann, K. Sühling und R. Weimann), C5

Gold

Reaction of $[\text{H}_2\text{Ru}_3\text{Rh}(\text{CO})_{12}]^-$ cluster anion with AuPPh_3Cl and structural characterization of $\text{AuHRh}_2\text{Ru}_3(\text{CO})_{13}(\text{PPh}_3)_2$ by X-ray diffraction and ^{31}P and ^1H NMR spectroscopy (H.J. Kakkonen, L. Tunkkari, M. Ahlgrèn, J. Pursiainen and T.A. Pakkanen), 93

Gold(II)

Phosphoniodithioformate gold derivatives. Synthesis of tricationic gold(II) complexes (M. Bardají, A. Laguna and M. Laguna), 245

Group 14

Synthesis and spectroscopic investigations (IR, NMR and Mössbauer) of tin(IV) and organotin(IV) derivatives of bis(pyrazol-1-yl)alkanes: X-ray crystal structures of bis(4-methylpyrazol-1-yl)methane and its dimethyltin(IV) dichloride adduct (C. Pettinari, A. Lorenzotti, G. Sclavi, A. Cingolani, E. Rivarola, M. Colapietro and A. Cassetta), 69

Halide

Structural studies on aryl bismuth halides and halogenoanions. Part 4. Neutral Lewis base adducts of aryl bismuth dibromide and diaryl bismuth bromide compounds (C.J. Carmalt, A.H. Cowley, A. Decken and N.C. Norman), 59

Heterobimetallic complexes

Synthesis via amine elimination and characterization of new heterobimetallic complexes containing the (pentamethylcyclopentadienyl)titanium(IV) moiety (M. Galakhov, A. Martín, M. Mena and C. Yélamos), 217

Hydrogen activation

Activation d'hydrogène par des complexes arène-ruthénium en solution aqueuse. III. Synthèse de complexes hydrures hétérométalliques ruthénium-rhodium (G. Meister, G. Rheinwald, H. Stoekli-Evans et G. Süß-Fink), 197

Hydrogenation catalyst

$\text{HRh}[\text{P}(\text{OPh})_3]_4$ as a hydrogenation and isomerization catalyst (H.K.A.C. Coolen, R.J.M. Nolte and P.W.N.M. Van Leeuwen), 159

Hydrosilylation

Selective addition of hydrosilanes to 1,3-dienes catalyzed by polyamide-supported metal complex catalysts (Z.M. Michalska, B. Ostaszewski and K. Strzelec), 19

Hypervalence

Intermolecular and intramolecular coordination interactions in solutions of *N*-(dimethylchlorosilylmethyl)acetamides (V.V. Negrebetsky, V.V. Negrebetsky, A.G. Shipov, E.P. Kramarova and Y.I. Baukov), 103

Indenyl

Synthesis and X-ray structural investigation of triindenyl tetrahydrofuranato praseodymium (S. Wang, D. Kong, Z. Ye and X. Huang), 37

Indole platinacycles

Five- and six-membered indole-fused platinacycles (R. Annunziata, S. Cenini, F. Demartin, G. Palmisano and S. Tollari), C1

Infrared spectroscopy

Synthesis and spectroscopic investigations (IR, NMR and Mössbauer) of tin(IV) and organotin(IV) derivatives of bis(pyrazol-1-yl)alkanes: X-ray crystal structures of bis(4-methylpyrazol-1-yl)methane and its dimethyltin(IV) dichloride adduct (C. Pettinari, A. Lorenzotti, G. Sclavi, A. Cingolani, E. Rivarola, M. Colapietro and A. Cassetta), 69

Intermolecular coordination

Intermolecular and intramolecular coordination interactions in solutions of *N*-(dimethylchlorosilylmethyl)acetamides (V.V. Negrebetsky, V.V. Negrebetsky, A.G. Shipov, E.P. Kramarova and Y.I. Baukov), 103

Intramolecular coordination

Intermolecular and intramolecular coordination interactions in solutions of *N*-(dimethylchlorosilylmethyl)acetamides (V.V. Negrebetsky, V.V. Negrebetsky, A.G. Shipov, E.P. Kramarova and Y.I. Baukov), 103

Iron

Hochsubstituierte Decabenzylmetallocene: Synthese und Strukturklärung von Deca(4-acetylbenzyl)ferrocen $\text{Fe}[\text{C}_5(\text{CH}_2\text{C}_6\text{H}_4\text{-C}(\text{O})\text{CH}_3)_5]_2$ (H. Schumann, K. Sühling und R. Weimann), C5

Molecular structure of iodo [1.1]ferrocenylruthenocenophanium⁺ BF₄⁻ salt (M. Watanabe, I. Motoyama, T. Takayama, M. Shimoi and H. Sano), 87

Reaction of η^4 -ketene complexes of iron with a phosphorus-sulfur ylide (Davy reagent): Insertion of sulfur into a carbon-iron bond with formation of ferrathiolactones (A.C. Cano, R.A. Toscano, S. Bernès, O.G. Mellado, C. Alvarez-Toledano and H. Rudler), 153

Redox chemistry and substitution reactions of the μ -cyanoalkylidene complexes $[\text{Fe}_2(\text{CO})_2(\text{cp})_2(\mu\text{-CO})\{\mu\text{-C}(\text{CN})(\text{X})\}]^{n+}$ ($n = 0$, X = CN, H, Me, SMe, OMe, OEt, OPh, OCH₂CH=CH₂, PEt₂, or NC₅H₁₀; $n = 1$, X = PMe₂Ph) (S. Bordoni, L. Busetto, F. Calderoni, L. Carlucci, F. Laschi, P. Zanello and V. Zanotti), 27

Redox-responsive surfactants: synthesis of 1,1-diferrocenyl-*n*-alkanes (C₁, C₅, C₇, C₁₉) via reaction of (diferrocenyl)methyl carbocation with carbanions (B. Bildstein, P. Denifl and K. Wurst), 175

Synthese und Eigenschaften des Diferriosulfans {CpFe(CO)₂}₂S und der Di- und Triferriosulf(ox)onium-Salze [(CpFe(CO)₂)₂S(O)_{*n*}Cl]-Cl ($n = 0, 1$) und [(CpFe(CO)₂)₃S]Cl (I.-P. Lorenz und K. Thurow), 191

Isocyanide

Bis(triisopropylarsan)- und Bis(triisopropylstiban)-Rhodium(I)-Komplexe mit Isonitrilen, Olefinen, Alkinen und Diinen als Liganden (H. Werner, P. Schwab, A. Heinemann und P. Steinert), 207

Isomerization catalyst

HRh[P(O)Ph]₃]₄ as a hydrogenation and isomerization catalyst (H.K.A.C. Coolen, R.J.M. Nolte and P.W.N.M. Van Leeuwen), 159

Isonitrile complexes

Isonitrile complexes of vanadium(II) (C. Böttcher, D. Rodewald and D. Rehder), 43

Ketene complexes

Reaction of η^4 -ketene complexes of iron with a phosphorus-sulfur ylide (Davy reagent): Insertion of sulfur into a carbon-iron bond with formation of ferrathiolactones (A.C. Cano, R.A. Toscano, S. Bernès, O.G. Mellado, C. Alvarez-Toledano and H. Rudler), 153

Lutetium

Organometallic compounds of the lanthanides. XCVII. Synthesis and crystal structures of monomeric bis(ethyltetramethylcyclopentadienyl) amide and alkyl derivatives of the lanthanides (H. Schumann, E.C.E. Rosenthal, G. Kociok-Köhn, G.A. Molander and J. Winterfeld), 233

Manganese

Synthesis, spectroscopic characterization and crystal and molecular structure of tetrakis(carbonyl)(tetraphenyldithioimidodiphosphinato)manganese(I), Mn(CO)₄[(SPPPh₂)₂N] (N. Zúñiga-Villarreal, C. Silvestru, M.R. Lezama, S. Hernández-Ortega and C.A. Toledano), 169

Metal carbonyl

Synthesis, spectroscopic characterization and crystal and molecular structure of tetrakis(carbonyl)(tetraphenyldithioimidodiphosphinato)manganese(I), Mn(CO)₄[(SPPPh₂)₂N] (N. Zúñiga-Villarreal, C. Silvestru, M.R. Lezama, S. Hernández-Ortega and C.A. Toledano), 169

Metallated sulfanes

Synthese und Eigenschaften des Diferriosulfans {CpFe(CO)₂}₂S und der Di- und Triferriosulf(ox)onium-Salze [(CpFe(CO)₂)₂S(O)_{*n*}Cl]-Cl ($n = 0, 1$) und [(CpFe(CO)₂)₃S]Cl (I.-P. Lorenz und K. Thurow), 191

Metallocenes

Molecular structure of iodo [1.1]ferrocenylruthenocenophanium⁺ BF₄⁻ salt (M. Watanabe, I. Motoyama, T. Takayama, M. Shimoi and H. Sano), 87

Metal-metal bond

Synthesis via amine elimination and characterization of new heterobimetallic complexes containing the (pentamethylcyclopentadienyl)titanium(IV) moiety (M. Galakhov, A. Martín, M. Mena and C. Yélamos), 217

MO calculations

Transmission of electronic effects via a SiMe₂ spacer in 4-mono- and 4,4'-disubstituted diphenyldimethylsilanes: ²⁹Si and ¹³C NMR spectroscopy and PM3 semi-empirical calculations (C.A. Van Walree, X.Y. Lanteslager, A.M.A. Van Wageningen, J.W. Zwikker and L.W. Jenneskens), 117

Multinuclear NMR

Intermolecular and intramolecular coordination interactions in solutions of *N*-(dimethylchlorosilylmethyl)acetamides (V.V. Negrebetsky, V.V. Negrebetsky, A.G. Shipov, E.P. Kramarova and Y.I. Baukov), 103

Neodymium

Organometallic compounds of the lanthanides. XCVII. Synthesis and crystal structures of monomeric bis(ethyltetramethylcyclopentadienyl) amide and alkyl derivatives of the lanthanides (H. Schumann, E.C.E. Rosenthal, G. Kociok-Köhn, G.A. Molander and J. Winterfeld), 233

Niobium

The chemistry of hydride, halide and alkyl niobocene complexes with coordinated diazoalkanes (D.A. Lemenovskii, G.I. Nikonov, G.P. Brusova, L.G. Kuzmina, E. Stanković and M. Putala), 227

Unprecedented formation of ethylene during the synthesis of a Nb-Rh bimetallic complex: molecular structure of Cp₂Nb(μ-PPh₂)₂RhC₂H₄ (G.I. Nikonov, D.A. Lemenovskii and L.G. Kuzmina), 187

NMR

Synthesis and spectroscopic investigations (IR, NMR and Mössbauer) of tin(IV) and organotin(IV) derivatives of bis(pyrazol-1-yl)alkanes: X-ray crystal structures of bis(4-methylpyrazol-1-yl)methane and its dimethyltin(IV) dichloride adduct (C. Pettinari, A. Lorenzotti, G. Sclavi, A. Cingolani, E. Rivarola, M. Colapietro and A. Cassetta), 69

Ortho-metallation

Five- and six-membered indole-fused platinacycles (R. Annunziata, S. Cenini, F. Demartin, G. Palmisano and S. Tollari), C1

Oxidative addition

Palladium(0)-catalyzed carbonylation of aryl and alkenyl boronic acids with carbon monoxide leading to esters and ketones. Transformation of a C–B bond to a C–CO bond (C.S. Cho, T. Ohe and S. Uemura), 221

Palladium

Palladium(0)-catalyzed carbonylation of aryl and alkenyl boronic acids with carbon monoxide leading to esters and ketones. Transformation of a C–B bond to a C–CO bond (C.S. Cho, T. Ohe and S. Uemura), 221

Selective addition of hydrosilanes to 1,3-dienes catalyzed by polyamide-supported metal complex catalysts (Z.M. Michalska, B. Ostaszewski and K. Strzelec), 19

Ternary complexes of palladium(II) containing (Te,S) and (Te,N) hybrid organotellurium ligands: synthesis, spectra and cis–trans isomeric conversion (R. Batheja, S.K. Dhingra and A.K. Singh), 99

Platinum

Five- and six-membered indole-fused platinacycles (R. Annunziata, S. Cenini, F. Demartin, G. Palmisano and S. Tollari), C1

Selective addition of hydrosilanes to 1,3-dienes catalyzed by polyamide-supported metal complex catalysts (Z.M. Michalska, B. Ostaszewski and K. Strzelec), 19

Polymer-supported catalysis

Selective addition of hydrosilanes to 1,3-dienes catalyzed by polyamide-supported metal complex catalysts (Z.M. Michalska, B. Ostaszewski and K. Strzelec), 19

Praseodymium

Synthesis and X-ray structural investigation of triindenyl tetrahydrofuranato praseodymium (S. Wang, D. Kong, Z. Ye and X. Huang), 37

Preparation

Phosphoniodithioformate gold derivatives. Synthesis of tricationic gold(II) complexes (M. Bardají, A. Laguna and M. Laguna), 245

Pyrazole

Synthesis and spectroscopic investigations (IR, NMR and Mössbauer) of tin(IV) and organotin(IV) derivatives of bis(pyrazol-1-yl)alkanes: X-ray crystal structures of bis(4-methylpyrazol-1-yl)methane and its dimethyltin(IV) dichloride adduct (C. Pettinari, A. Lorenzotti, G. Sclavi, A. Cingolani, E. Rivarola, M. Colapietro and A. Cassetta), 69

Redox reactions

Redox chemistry and substitution reactions of the μ -cyanoalkylidene complexes $[\text{Fe}_2(\text{CO})_2(\text{cp})_2(\mu\text{-CO})\{\mu\text{-C}(\text{CN})(\text{X})\}]^{n+}$ ($n = 0$, X = CN, H, Me, SMe, OMe, OEt, OPh, $\text{OCH}_2\text{CH}=\text{CH}_2$, PEt_2 , or NC_5H_{10} ; $n = 1$, X = PMe_2Ph) (S. Bordoni, L. Busetto, F. Calderoni, L. Carlucci, F. Laschi, P. Zanello and V. Zanotti), 27

Rhodium

Activation d'hydrogène par des complexes arène–ruthénium en solution aqueuse. III. Synthèse de complexes hydrures hétérométalliques ruthénium–rhodium (G. Meister, G. Rheinwald, H. Stoeckli-Evans et G. Süß-Fink), 197

Bis(triisopropylarsan)- und Bis(triisopropylstiban)-Rhodium(I)-Komplexe mit Isonitrilen, Olefinen, Alkinen und Diinen als Liganden (H. Werner, P. Schwab, A. Heinemann und P. Steinert), 207

HRh[P(OPh)₃]₄ as a hydrogenation and isomerization catalyst (H.K.A.C. Coolen, R.J.M. Nolte and P.W.N.M. Van Leeuwen), 159

Reaction of $[\text{H}_2\text{Ru}_3\text{Rh}(\text{CO})_{12}]^-$ cluster anion with AuPPh₃Cl and structural characterization of AuHRh₂Ru₃(CO)₁₃(PPh₃)₂ by X-ray diffraction and ³¹P and ¹H NMR spectroscopy (H.J. Kakkonen, L. Tunkkari, M. Ahlgrèn, J. Pursiainen and T.A. Pakkanen), 93

Selective addition of hydrosilanes to 1,3-dienes catalyzed by polyamide-supported metal complex catalysts (Z.M. Michalska, B. Ostaszewski and K. Strzelec), 19

Unprecedented formation of ethylene during the synthesis of a Nb–Rh bimetallic complex: molecular structure of Cp₂Nb(μ-PPh₂)₂RhC₂H₄ (G.I. Nikonov, D.A. Lemenovskii and L.G. Kuzmina), 187

Ruthenium

Activation d'hydrogène par des complexes arène–ruthénium en solution aqueuse. III. Synthèse de complexes hydrures hétérométalliques ruthénium–rhodium (G. Meister, G. Rheinwald, H. Stoeckli-Evans et G. Süß-Fink), 197

Molecular structure of iodo [1.1]ferrocenylruthenocenophanium⁺ BF₄[−] salt (M. Watanabe, I. Motoyama, T. Takayama, M. Shimoi and H. Sano), 87

Reaction of $[\text{H}_2\text{Ru}_3\text{Rh}(\text{CO})_{12}]^-$ cluster anion with AuPPh₃Cl and structural characterization of AuHRh₂Ru₃(CO)₁₃(PPh₃)₂ by X-ray diffraction and ³¹P and ¹H NMR spectroscopy (H.J. Kakkonen, L. Tunkkari, M. Ahlgrèn, J. Pursiainen and T.A. Pakkanen), 93

Syntheses and characterization of diruthenium(III) alkyl–alkyl and alkyl–alkynyl complexes with two bridging thiolate ligands [Cp^{*}Ru(μ-SPR¹)₂RuCp^{*}R'] (Cp^{*} = η⁵-C₅Me₅). X-ray structure of [Cp^{*}Ru(CH₂CH₂Ph)(μ-SPR¹)₂RuCp^{*}(CH₂CH₂Ph)] (A. Takahashi, Y. Mizobe, T. Tanase and M. Hidai), 109

Synthesis via amine elimination and characterization of new heterobimetallic complexes containing the (pentamethylcyclopentadienyl)titanium(IV) moiety (M. Galakhov, A. Martín, M. Mena and C. Yélamos), 217

Samarium

Organometallic compounds of the lanthanides. XCVII. Synthesis and crystal structures of monomeric bis(ethyltetramethylcyclopentadienyl) amide and alkyl derivatives of the lanthanides (H. Schumann, E.C.E. Rosenthal, G. Kociok-Köhn, G.A. Molander and J. Winterfeld), 233

Silicon

Intermolecular and intramolecular coordination interactions in solutions of N-(dimethylchlorosilylmethyl)acetamides (V.V. Negrebetsky, V.V. Negrebetsky, A.G. Shipov, E.P. Kramarova and Y.I. Baukov), 103

Transmission of electronic effects via a SiMe₂ spacer in 4-mono- and 4,4'-disubstituted diphenyldimethylsilanes: ²⁹Si and ¹³C NMR spectroscopy and PM3 semi-empirical calculations (C.A. Van Walree, X.Y. Lauteslager, A.M.A. Van Wageningen, J.W. Zwikker and L.W. Jenneskens), 117

²⁹Si NMR

Transmission of electronic effects via a SiMe₂ spacer in 4-mono- and 4,4'-disubstituted diphenyldimethylsilanes: ²⁹Si and ¹³C NMR spectroscopy and PM3 semi-empirical calculations (C.A. Van Walree, X.Y. Lauteslager, A.M.A. Van Wageningen, J.W. Zwikker and L.W. Jenneskens), 117

S-oxidation

Synthese und Eigenschaften des Diferriossulfans $\{\text{CpFe}(\text{CO})_2\}_2\text{S}$ und der Di- und Triferriossulf(ox)onium-Salze $[\{\text{CpFe}(\text{CO})_2\}_2\text{S}(\text{O})_n\text{Cl}]^+\text{Cl}^-$ ($n = 0, 1$) und $[\{\text{CpFe}(\text{CO})_2\}_3\text{S}]\text{Cl}$ (I.-P. Lorenz und K. Thurow), 191

Structure

Metallorganische Verbindungen des Kupfers. VIII. Untersuchungen über die Koordinationschemie von heteroatomverbrückten Bisalkinen am Beispiel von Kupfer(I)-halogenid- und -trifluormethylsulfonat-Komplexen (G. Schmidt, N. Schittenhelm und U. Behrens), 49

Structures

Structural studies on aryl bismuth halides and halogenoanions. Part 4. Neutral Lewis base adducts of aryl bismuth dibromide and diaryl bismuth bromide compounds (C.J. Carmalt, A.H. Cowley, A. Decken and N.C. Norman), 59

Substituent effects

Transmission of electronic effects via a SiMe_2 spacer in 4-mono- and 4,4'-disubstituted diphenyldimethylsilanes: ^{29}Si and ^{13}C NMR spectroscopy and PM3 semi-empirical calculations (C.A. Van Walree, X.Y. Lauteslager, A.M.A. Van Wageningen, J.W. Zwicker and L.W. Jenneskens), 117

Substitution reactions

Redox chemistry and substitution reactions of the μ -cyanoalkylidene complexes $[\text{Fe}_2(\text{CO})_2(\text{cp})_2(\mu\text{-CO})\{\mu\text{-C}(\text{CN})(\text{X})\}]^{n+}$ ($n = 0, \text{X} = \text{CN}, \text{H}, \text{Me}, \text{SMe}, \text{OMe}, \text{OEt}, \text{OPh}, \text{OCH}_2\text{CH}=\text{CH}_2, \text{PEt}_2, \text{or } \text{NC}_5\text{H}_{10}; n = 1, \text{X} = \text{PMe}_2\text{Ph}$) (S. Bordoni, L. Busetto, F. Calderoni, L. Carlucci, F. Laschi, P. Zanello and V. Zanotti), 27

Sulfur

Ternary complexes of palladium(II) containing (Te,S) and (Te,N) hybrid organotellurium ligands: synthesis, spectra and cis-trans isomeric conversion (R. Batheja, S.K. Dhingra and A.K. Singh), 99

Sulfur and sulfur dioxide complexes

Synthese und Eigenschaften des Diferriossulfans $\{\text{CpFe}(\text{CO})_2\}_2\text{S}$ und der Di- und Triferriossulf(ox)onium-Salze $[\{\text{CpFe}(\text{CO})_2\}_2\text{S}(\text{O})_n\text{Cl}]^+\text{Cl}^-$ ($n = 0, 1$) und $[\{\text{CpFe}(\text{CO})_2\}_3\text{S}]\text{Cl}$ (I.-P. Lorenz und K. Thurow), 191

Surfactants

Redox-responsive surfactants: synthesis of 1,1-diferrocenyl-*n*-alkanes ($\text{C}_1, \text{C}_5, \text{C}_7, \text{C}_{19}$) via reaction of (diferrocenyl)methyl carbocation with carbanions (B. Bildstein, P. Denifl and K. Wurst), 175

Synthesis

Structural studies on aryl bismuth halides and halogenoanions. Part 4. Neutral Lewis base adducts of aryl bismuth dibromide and diaryl bismuth bromide compounds (C.J. Carmalt, A.H. Cowley, A. Decken and N.C. Norman), 59

Tellurium

Ternary complexes of palladium(II) containing (Te,S) and (Te,N) hybrid organotellurium ligands: synthesis, spectra and cis-trans isomeric conversion (R. Batheja, S.K. Dhingra and A.K. Singh), 99

Tetrakis(trimethylstanny)methane

Die Kristall- und Molekülstruktur von Tetrakis(trimethylstanny)methan (K.W. Klinkhammer, S. Kühner, B. Regelmann und J. Weidlein), 241

Thiolate

Syntheses and characterization of diruthenium(III) alkyl-alkyl and alkyl-alkynyl complexes with two bridging thiolate ligands $[\text{Cp}^*\text{RuR}(\mu\text{-SPr}^i)_2\text{RuCp}^*\text{R}']$ ($\text{Cp}^* = \eta^5\text{-C}_5\text{Me}_5$). X-ray structure of $[\text{Cp}^*\text{Ru}(\text{CH}_2\text{CH}_2\text{Ph})(\mu\text{-SPr}^i)_2\text{RuCp}^*(\text{CH}_2\text{CH}_2\text{Ph})]$ (A. Takahashi, Y. Mizobe, T. Tanase and M. Hidai), 109

Tin

Die Kristall- und Molekülstruktur von Tetrakis(trimethylstanny)methan (K.W. Klinkhammer, S. Kühner, B. Regelmann und J. Weidlein), 241

Synthesis and spectroscopic investigations (IR, NMR and Mössbauer) of tin(IV) and organotin(IV) derivatives of bis(pyrazol-1-yl)alkanes: X-ray crystal structures of bis(4-methylpyrazol-1-yl)methane and its dimethyltin(IV) dichloride adduct (C. Pettinari, A. Lorenzotti, G. Sclavi, A. Cingolani, E. Rivarola, M. Colapietro and A. Cassetta), 69

Titanium

Synthesis via amine elimination and characterization of new heterobimetallic complexes containing the (pentamethylcyclopentadienyl)titanium(IV) moiety (M. Galakhov, A. Martín, M. Mena and C. Yélamos), 217

Trialkylarsane

Bis(triisopropylarsan)- und Bis(triisopropylstiban)-Rhodium(I)-Komplexe mit Isonitrilen, Olefinen, Alkinen und Diinen als Liganden (H. Werner, P. Schwab, A. Heinemann und P. Steinert), 207

Trialkylstibane

Bis(triisopropylarsan)- und Bis(triisopropylstiban)-Rhodium(I)-Komplexe mit Isonitrilen, Olefinen, Alkinen und Diinen als Liganden (H. Werner, P. Schwab, A. Heinemann und P. Steinert), 207

Tricationic, dinuclear complexes

Phosphonodithioformate gold derivatives. Synthesis of tricationic gold(II) complexes (M. Bardají, A. Laguna and M. Laguna), 245

Vanadium halides

Isonitrile complexes of vanadium(II) (C. Böttcher, D. Rodewald and D. Rehder), 43

X-ray diffraction

Die Kristall- und Molekülstruktur von Tetrakis(trimethylstanny)methan (K.W. Klinkhammer, S. Kühner, B. Regelmann und J. Weidlein), 241

Redox-responsive surfactants: synthesis of 1,1-diferrocenyl-*n*-alkanes ($\text{C}_1, \text{C}_5, \text{C}_7, \text{C}_{19}$) via reaction of (diferrocenyl)methyl carbocation with carbanions (B. Bildstein, P. Denifl and K. Wurst), 175

X-ray structure

Five- and six-membered indole-fused platinumacycles (R. Annunziata, S. Cenini, F. Demartin, G. Palmisano and S. Tollari), C1

Reaction of aminocarbene complexes of chromium with alkynes. IV. New transformations of the nitrogen ylide complexes derived therefrom (C. Bouancheau, M. Rudler, E. Chelain, H. Rudler, J. Vaissermann and J.-C. Daran), 127

Syntheses and characterization of diruthenium(III) alkyl-alkyl and alkyl-alkynyl complexes with two bridging thiolate ligands $[\text{Cp}^*\text{RuR}(\mu\text{-SPr}^i)_2\text{RuCp}^*\text{R}']$ ($\text{Cp}^* = \eta^5\text{-C}_5\text{Me}_5$). X-ray structure of $[\text{Cp}^*\text{Ru}(\text{CH}_2\text{CH}_2\text{Ph})(\mu\text{-SPr}^i)_2\text{RuCp}^*(\text{CH}_2\text{CH}_2\text{Ph})]$ (A. Takahashi, Y. Mizobe, T. Tanase and M. Hidai), 109

Synthesis and spectroscopic investigations (IR, NMR and Mössbauer) of tin(IV) and organotin(IV) derivatives of bis(pyrazol-1-yl)alkanes: X-ray crystal structures of bis(4-methylpyrazol-1-yl)methane and its dimethyltin(IV) dichloride adduct (C. Pettinari, A. Lorenzotti, G. Sclavi, A. Cingolani, E. Rivarola, M. Colapietro and A. Cassetta), 69

Ylide

Phosphonodithioformate gold derivatives. Synthesis of tricationic gold(II) complexes (M. Bardají, A. Laguna and M. Laguna), 245

Ylides

Reaction of η^4 -ketene complexes of iron with a phosphorus–sulfur ylide (Davy reagent): Insertion of sulfur into a carbon–iron bond with formation of ferrathiolactones (A.C. Cano, R.A. Toscano, S. Bernès, O.G. Mellado, C. Alvarez-Toledano and H. Rudler), 153

Yttrium

Organometallic compounds of the lanthanides. XCVII. Synthesis and crystal structures of monomeric bis(ethyltetramethylcyclopentadienyl) amide and alkyl derivatives of the lanthanides (H. Schumann, E.C.E. Rosenthal, G. Kociok-Köhn, G.A. Molander and J. Winterfeld), 233