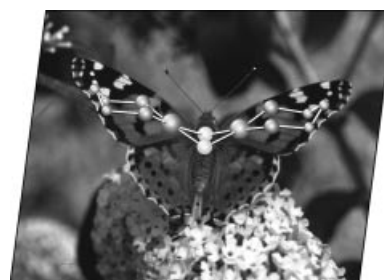


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COVER PICTURE

The cover picture shows a butterfly mimicking the main features of compounds $[L_2Pt(\mu-S)_2PtL_2]$ (L_2 = phosphane). Its flight simulates the flexibility of the $\{Pt(\mu-S)_2Pt\}$ core about the S–S axis; its body represents the strongly nucleophilic sulfide ligands and the wings the $\{PtL_2\}$ fragments. Exploration of the reactivity of the butterfly compounds has revealed an exceptionally rich and diverse chemistry. Details are discussed in the Microreview by P. González-Duarte et al. on p. 3585ff., who acknowledge Victor Sarto i Monteys for the butterfly picture (V. S. i M. holds the copyright).

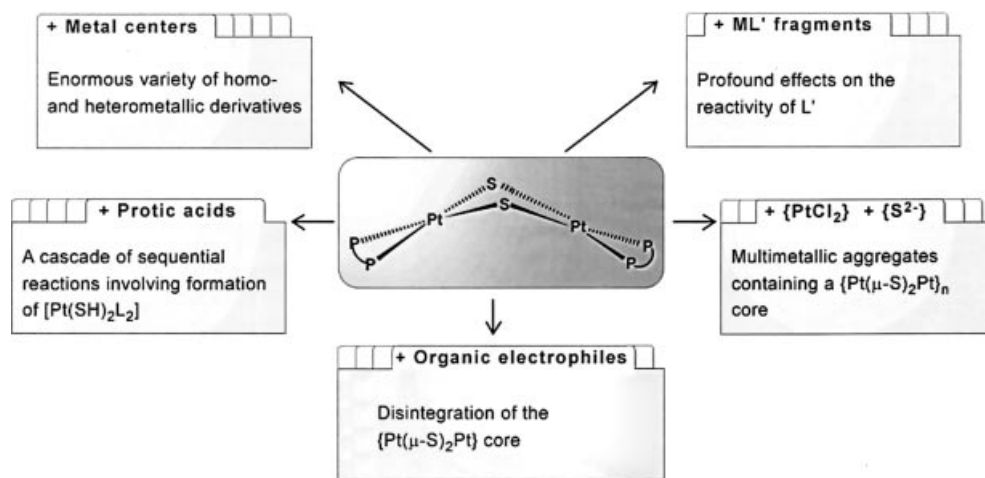


MICROREVIEW

Contents

3585 P. González-Duarte,* A. Lledós,
R. Mas-Ballesté

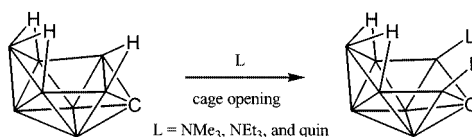
Extending The Reaction Landscape of the $\{Pt(\mu-S)_2Pt\}$ Core: From Metal Centers to Non-Metallic Electrophiles



Keywords: Platinum / Sulfur / Metalloligand / Nucleophile / Building block

3601 B. Štíbr,* J. Holub, M. Bakardjiev,
W. Milius, B. Wrackmeyer

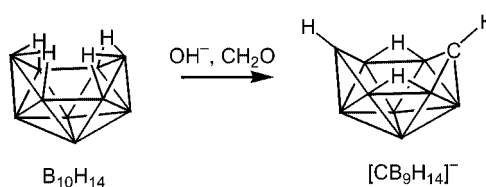
Monocarbaborane Chemistry: Cage Opening of *nido*-1-CB₈H₁₂ by Tertiary Bases – an Example of a Straightforward *nido* → *arachno* Transformation; Isolation of a New Series of 4-*L*-*arachno*-5-CB₈H₁₂ Compounds (L = NMe₃, NEt₃, and Quinoline)



Keywords: Boranes / Carboranes / Monocarbaboranes / NMR spectroscopy / X-ray diffraction

3605 B. Brelloch, J. Bačkovský, B. Štíbr,*
T. Jelínek, J. Holub, M. Bakardjiev,
D. Hnyk, M. Hofmann, I. Císařová,
B. Wrackmeyer

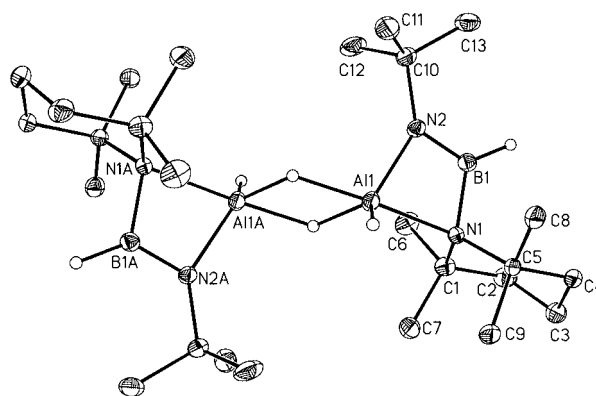
New Ways to a Series of Parent Representatives of the Eight-, Nine-, and Ten-Vertex Monocarbaborane Family



Keywords: Boranes / Carboranes / Geometry optimization / GIAO calculations / Monocarbaboranes

3612 U. Braun, B. Böck, H. Nöth,* I. Schwab,
M. Schwartz, S. Weber, U. Wietelmann

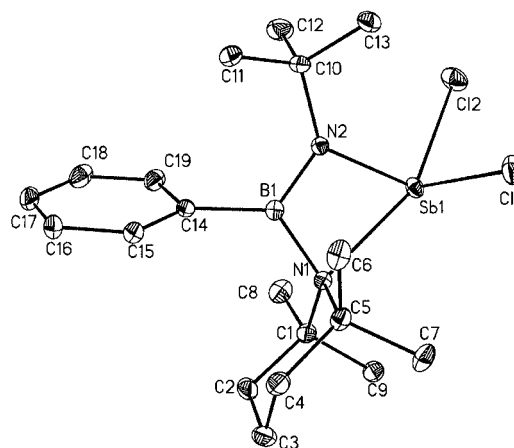
Reactions of Group 13 and 14 Hydrides and Group 1, 2, 13 and 14 Organyl Compounds with (*tert*-Butylimino)(2,2,6,6-tetramethylpiperidino)-borane



Keywords: BN triple bonds / Insertion reactions / (*N*-Metal-*tert*-butylamino)(2,2,6,6-tetramethylpiperidino)boranes / Multinuclear NMR / X-ray structures

3629 U. Braun, T. Habereeder, H. Nöth*

Lithium *tert*-Butyl[phenyl(2,2,6,6-tetramethylpiperidino)boryl]amide: A Versatile Reagent

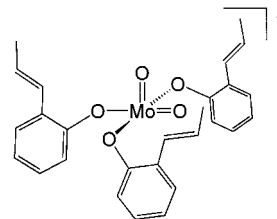


Keywords: Lithium *tert*-butyl[phenyl(2,2,6,6-tetramethylpiperidino)boryl]amide / *N*-Metal borylamides

3644 C. Wippert Rodrigues, C. Limberg,*
H. Pritzkow

Metalation of 2-Propenylphenol

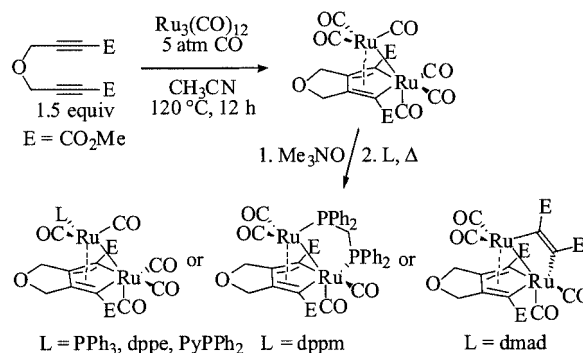
Keywords: Molybdenum / Oxo complexes / Alkoxides / Lithium / Metalation



3651 Y. Yamamoto,* Y. Miyabe, K. Itoh

Synthesis of a Dinuclear Ruthenabicyclic Complex and Its Ligand-Substitution Reactions

Keywords: Alkyne ligands / Carbonyl ligands / Metalla-cycles / Phosphane ligands / Ruthenium

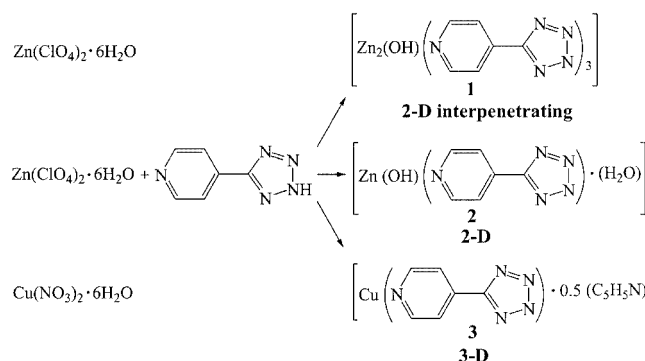


3662 C. Jiang, Z. Yu, S. Wang, C. Jiao, J. Li,
Z. Wang,* Y. Cui*



Rational Design of Metal-Organic Frameworks Based on 5-(4-Pyridyl)tetrazolate: From 2D Grids to 3D Porous Networks

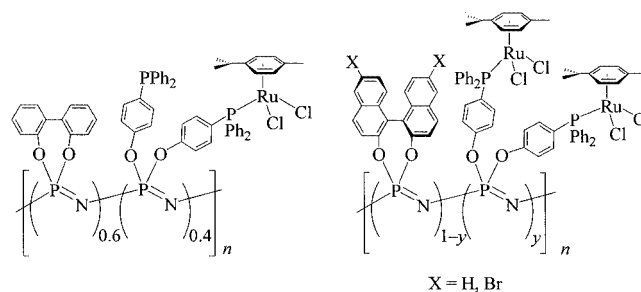
Keywords: Coordination polymers / Fluorescence / Hydrothermal synthesis / N ligands / Self-assembly



3668 G. A. Carriedo,* P. Crochet, F. J. García
Alonso, J. Gimeno,* A. Presa-Soto

Synthesis and Catalytic Activity of (η^6 -*p*-Cymene)(phosphane)ruthenium(II) Complexes Supported on Poly(biphenoxyposphazene) or Chiral Poly(binaphthoxyposphazene) Copolymers

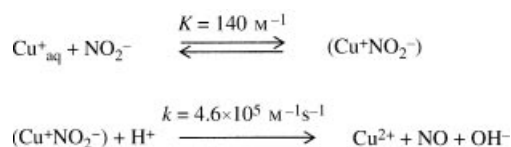
Keywords: Phosphazenes / Polymers / Immobilization / Arene ligands / Hydrogen transfer / Ruthenium



3675 A. Burg, E. Lozinsky, H. Cohen,
D. Meyerstein*

Mechanism of Reduction of the Nitrite Ion by Cu^{I} Complexes

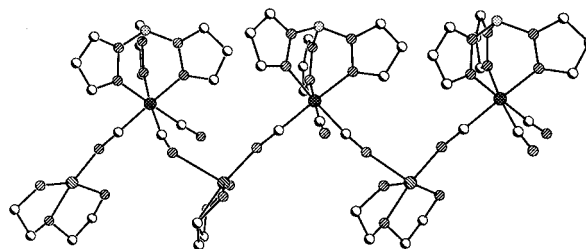
Keywords: Nitrite / Copper(I) / Reduction / NO



3681 S. Wang, J.-L. Zuo,* H.-C. Zhou, Y. Song, S. Gao, X.-Z. You*

Heterobimetallic Complexes Based on $[(\text{Tp})\text{Fe}(\text{CN})_3]^-$: Syntheses, Crystal Structures and Magnetic Properties

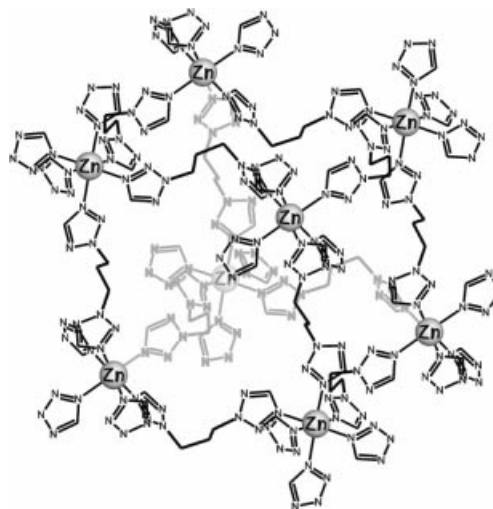
Keywords: Chain structures / Cyanide ligands / Iron / Magnetic properties / Polynuclear complexes



3688 R. Bronisz

Synthesis and Characterisation of Coordination Polymers of Cu^{II} and Zn^{II} with 1,3-Bis(1,2,3,4-tetrazol-2-yl)propane – Rotational Freedom of the Donor Group Favors Structural Diversification

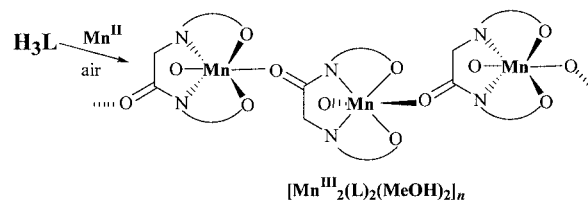
Keywords: Coordination polymers / Copper / Flexibility / N ligands / Zinc



3696 M. R. Bermejo,* A. M. González-Noya, V. Abad, M. I. Fernández, M. Maneiro, R. Pedrido, M. Vázquez

Formation of Novel 1-D Chains by μ -Amido Bridging of Dinuclear Manganese(III)-Schiff Base Complexes

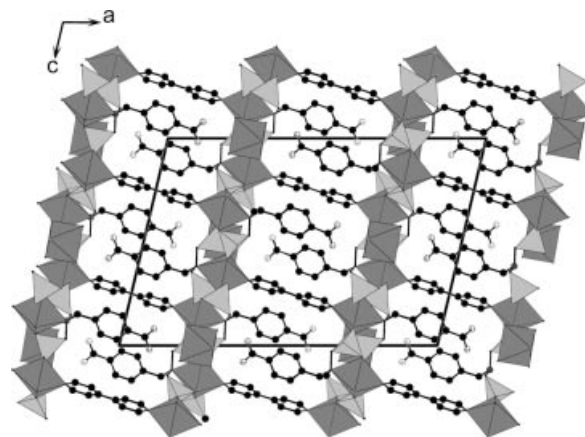
Keywords: Amides / Manganese / Schiff bases / 1-D chains



3706 J.-L. Song, A. V. Prosvirin, H.-H. Zhao, J.-G. Mao*

Syntheses and Crystal Structures of Two Cobalt Carboxylate–Phosphonates with 4,4'-Bipyridine as a Secondary Metal Linker

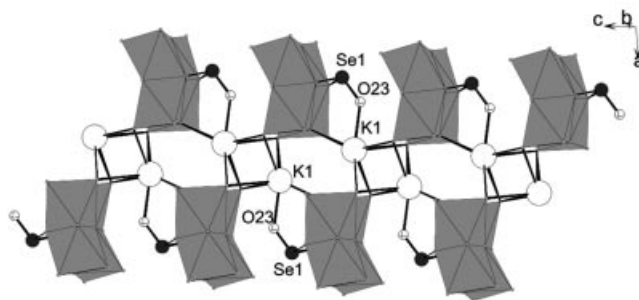
Keywords: Hydrothermal synthesis / Crystal structure / Cobalt phosphonates / Inorganic-organic hybrids / Open frameworks



3712 M.-L. Feng, J.-G. Mao*

Three New Organically Templated Polyoxomolybdates with Capping Selenite Anions

Keywords: Hydrothermal synthesis / Inorganic-organic hybrid composites / Molybdenum / Polyoxometalates / Selenium

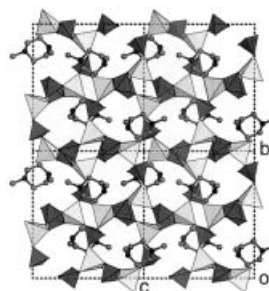


3718 Y. Song, J. Yu,* Y. Li, M. Zhang, R. Xu*



A New 3-D Open-Framework Zinc Phosphate $[\text{C}_6\text{H}_{16}\text{N}_2][\text{Zn}_2(\text{HPO}_4)_3]$ Synthesized by a Solvothermal Combinatorial Approach

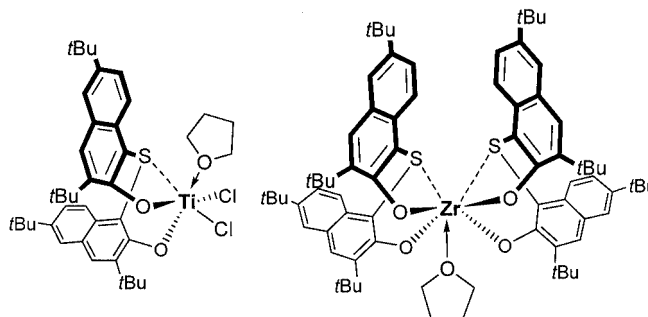
Keywords: Solvothermal synthesis / Structure / Combinatorial approach / Host-guest systems / Zinc phosphate



3724 L. S. Natrajan, C. Wilson, J. Okuda, P. L. Arnold*

Group 4 Complexes of Chelating Dianionic [OSO] Binaphtholate Ligands; Synthesis and Alkene Polymerisation Catalysis

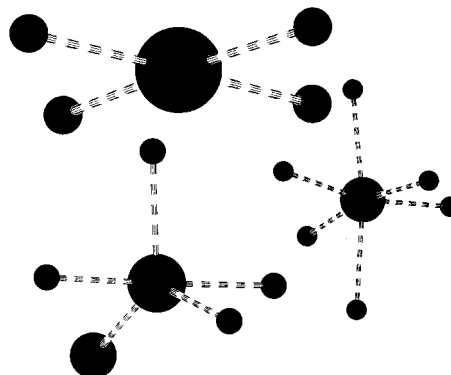
Keywords: Binaphthol ligands / Polymerisation catalysis / Organometallic / Group 4 elements / Zirconium / Titanium



3733 G. A. van Albada, A. Mohamadou, I. Mutikainen, U. Turpeinen, J. Reedijk*

Synthesis, Characterisation, Properties and X-ray Structures of Cu^{II} Coordination Compounds with 5,5'-Dimethylbipyridine and Various Anions: Control of Stoichiometry and Structure by the Counterions

Keywords: Copper / EPR spectroscopy / Infrared spectroscopy / Magnetic properties / N ligands

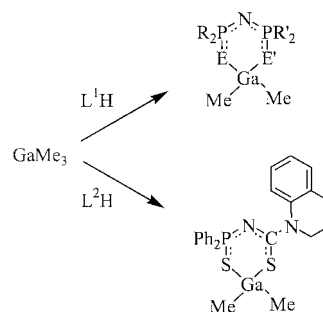


3743

V. Montiel-Palma, E. Huitrón-Rattinger,
S. Cortés-Llamas, M.-Á. Muñoz-Hernández,*
V. García-Montalvo, E. López-Honorato,
C. Silverstru

Towards Cationic Gallium Derivatives: Metallacycles from the Reactions of Organogallium Compounds with Tetraorganodichalcogenoimidodiphosphinates and a New *N*-(Diphenylthiophosphinyl)thioureato Ligand

Keywords: Cationic catalysts / Chelating ligands / Gallium / Metallacycles / Phosphorus



3751

R. Wang, L. Han, L. Xu, Y. Gong, Y. Zhou,
M. Hong,* A. S. C. Chan

Syntheses and Characterizations of Metal-Organic Frameworks with Unusual Topologies Derived from Flexible Dipyridyl Ligands

Keywords: Bridging ligands / Cadmium / Coordination polymers / X-ray diffraction / Zinc

