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Autore	Roule, Louis <1861-1942>
Titolo	Les poissons migrateurs leur vie et leur pêche : un important probleme d'histoire naturelle ocnographique et économique / Louis Roule
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index.

Nota di contenuto

Molecular Clusters of the Main Group Elements; Contents; Preface; List of Contributors; 1 Theory and Concepts in Main-Group Cluster Chemistry; 1.1 Introduction; 1.1.1 Three-center Bonding in Boranes: Lipscomb's Equations of Balance; 1.1.2 Polyhedral Skeletal Electron Pair Theory: The Wade-Mingos Rules; 1.1.3 Aromaticity in Three-dimensional Clusters; 1.1.3.1 From Polygonal Aromatics to Deltahedral Boranes; 1.1.3.2 Interstitial Polygonal Aromatic-Deltahedral Borane Relationships; 1.1.3.3 Aromaticity Evaluations of Three-dimensional Structures: Nucleus-Independent Chemical Shift (NICS) 1.1.3.4 Spherical Aromaticity 1.1.4 Bare Ionic Post-transition Metal Clusters: The Zintl Phases; 1.1.5 Clusters of the Heavier Group 13 Metals; 1.1.5.1 Apparently Hypoelectronic Deltahedra in Bare Clusters of Indium and Thallium: Polyhedra with Flattened Vertices; 1.1.5.2 Organometallic Deltahedral Clusters of the Heavier Group 13 Metals and More Complicated Structures Derived from Deltahedra; 1.1.5.3 Giant Aluminum Clusters with Shell Structures Consisting of Nested Polyhedra: Pieces of Icosahedral Quasicrystals; 1.1.6 Conclusion and Outlook; References; 2.1 Homonuclear Boron Clusters 2.1.1 Introduction 2.1.2 General Principles and Systematic Naming; 2.1.2.1 Structures and Bonding; 2.1.3 Synthetic Methods; 2.1.3.1 Diborane Pyrolysis; 2.1.3.2 The Anionic Route; 2.1.3.3 Platinum-catalyzed Dehydrocoupling; 2.1.3.4 Cluster Expansion and Cluster Contraction Reactions; 2.1.4 Chemistry of Selected Polyboranes; 2.1.4.1 Chemistry of Triborane $B(3)H(7)$; 2.1.4.2 Chemistry of Tetraboranes; 2.1.4.2.1 arachno-Tetraborane(10); 2.1.4.2.2 Derivatives of nido-Tetraborane(8), $B(4)H(8)$, and closo-Tetraborane(6), $B(4)H(6)$; 2.1.4.3 Chemistry of Pentaborane(9); 2.1.4.4 Chemistry of Decaborane(14) 2.1.5 Chemistry of Selected nido- and closo-Polyborane Anions 2.1.5.1 Chemistry of closo- $B(6)H(6)(2-)$; 2.1.5.2 Chemistry of the Nonahydro-closo-nonaborate(2-); 2.1.5.3 Reaction of Decahydro-closo-decaborate(2-); 2.1.5.4 Chemistry of the nido-Decaborate $B(10)H(13)(-)$; 2.1.5.5 Chemistry of Undecahydro-closo-undecaborate $B(11)H(11)(2-)$; 2.1.5.6 Chemistry of the Dodecahydro-closo-dodecaborate; 2.1.5.6.1 Protonation and Alkylation of $B(12)H(12)(2-)$; 2.1.5.6.2 Halogeno-, Hydroxo-, Alkoxo- and Amine closo-dodecaborates; 2.1.5.7 Chemistry of $B(20)H(18)(2-)$ Anions 2.1.6 Substituted Neutral Polyboranes of Type $B(y)X(y)$ 2.1.6.1 Overview; 2.1.6.2 Structures; 2.1.6.3 Synthesis; 2.1.6.4 Reactions; References; 2.2 Boron Clusters in Medical Applications; 2.2.1 Introduction; 2.2.2 Dicarba-closo-dodecaborane, $C(2)B(10)H(12)$, and Derivatives; 2.2.2.1 Preparation and Reactions of $C(2)B(10)$ Cage Compounds; 2.2.2.2 Design and Classification of BNCT Reagents Containing $C(2)B(10)$ Cages; 2.2.2.3 Amino Acids; 2.2.2.4 Nucleic Acid Precursors; 2.2.2.5 DNA Binders; 2.2.2.6 Porphyrins; 2.2.2.7 Combination of $C(2)B(10)$ and Gadolinium-containing Species 2.2.3 Derivatives of the nido-carborane $C(2)B(9)H(12)(2-)$

Sommario/riassunto

With more than 20 contributions from leading research groups, this book provides essential information for chemists and materials scientists working with molecular clusters. It treats both homonuclear and heteronuclear clusters, including: the theory and concepts in main-group cluster chemistry, * novel boranes and heteroboranes, * silicon/germanium/tin clusters, * alkali metal suboxides, * clusters in alloys with mercury, * chalcogen clusters* and numerous other compound classes. The whole is illustrated by examples of the great potential for technical appli