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Nota di contenuto	DESIGN AND CONSTRUCTION OF COORDINATION POLYMERS; CONTENTS; Contributors; Preface; 1 Coordinative Flexibility of Monovalent Silver in [Ag(I) L1]L2 Complexes; 1.1 Introduction; 1.2 Ligands L1 with 1,2 N-Donor Functions; 1.3 Ligands L1 with 1,3 N-Donor Functions; 1.4 Ligands L1 with 1,4 N-Donor Functions; 1.5 Conclusions; References; 2 Indium(III)-Organic Coordination Polymers with Versatile Topological Structures Based on Multicarboxylate Ligands; 2.1 Introduction; 2.2 Architectures Constructed by In(III) and Benzenedicarboxylates 2.3 Architectures Constructed by In(III) and Benzenetricarboxylates 2.4 Architectures Constructed by In(III) and Other Benzenemulticarboxylates; 2.5 Luminescence, Ion Exchange, and

Hydrogen Storage; 2.6 Conclusions; References; 3 Crystal Engineering of Coordination Polymers via Solvothermal In Situ Metal-Ligand Reactions; 3.1 Introduction; 3.2 Metal-Redox Reaction; 3.3 Conversion of Carboxylic Acid; 3.4 Carbon-Carbon Bond Formation; 3.5 Heterocycle Formation from Small Molecules; 3.6 Transformation of Sulfur-Containing Ligands; 3.7 Conclusions; References  
4 Construction of Some Organic-Inorganic Hybrid Complexes Based on Polyoxometalates 4.1 Introduction; 4.2 Complexes Built Up by POMs with 1,2,4-Triazolate and Its Derivatives; 4.3 Complexes Built Up by Molybdenum Oxide Chains with Pyridine Derivatives; 4.4 Conclusions; References; 5 Silver(I) Coordination Polymers; 5.1 Introduction; 5.2 Coordination Geometries of Ag(+) Ions; 5.3 Ligands in Silver(I) Coordination Polymers; 5.4 Supramolecular Interactions and Counter Anions in Silver(I) Coordination Polymers  
5.5 One- to Three-Dimensional Coordination Polymers Based on Silver-Ligand Coordination Bonds 5.6 Intertwining or Interpenetrating of Silver (I) Coordination Polymers; 5.7 Properties of Silver(I) Coordination Polymers; References; 6 Tuning Structures and Properties of Coordination Polymers by the Noncoordinating Backbone of Bridging Ligands; 6.1 Introduction; 6.2 Ligand Design for Coordination Polymers; 6.3 Role of Noncoordinating Backbones of Bridging Ligands; 6.4 Conclusions; References; 7 Ferroelectric Metal-Organic Coordination Compounds; 7.1 Introduction  
7.2 Homochiral Discrete or Zero-Dimensional MOCCs 7.3 Acentric MOCPs Produced by Supramolecular Crystal Engineering; 7.4 Homochiral MOCPs Constructed with Optical Organic Ligands; 7.5 Conclusions; References; 8 Constructing Magnetic Molecular Solids by Employing Three-Atom Ligands as Bridges; 8.1 Introduction; 8.2 Coordination Characteristics of Three-Atom Bridges and Their Role in Mediating Magnetic Interaction; 8.3 Co-Ligands, Templating Cations, and Other Short Bridges; 8.4 Magnetic Molecular Solids Based on Three-Atom Bridges; 8.5 Conclusions; References  
9 Structures and Properties of Heavy Main-Group Iodometalates

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## Sommario/riassunto

Design and Construction of Coordination Polymers Edited by Mao-Chun Hong Ling Chen A Unique Resource on coordination Polymers  
Coordination polymers are a growing, interdisciplinary field with numerous potential applications in chemistry and materials. Design and Construction of Coordination Polymers provides a comprehensive introduction to this field, focusing on synthetic strategies, structures, properties, and potential applications. Each chapter provides a unique perspective on coordination polymers, offering a dedicated approach as well as deeper insights on the most impor

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