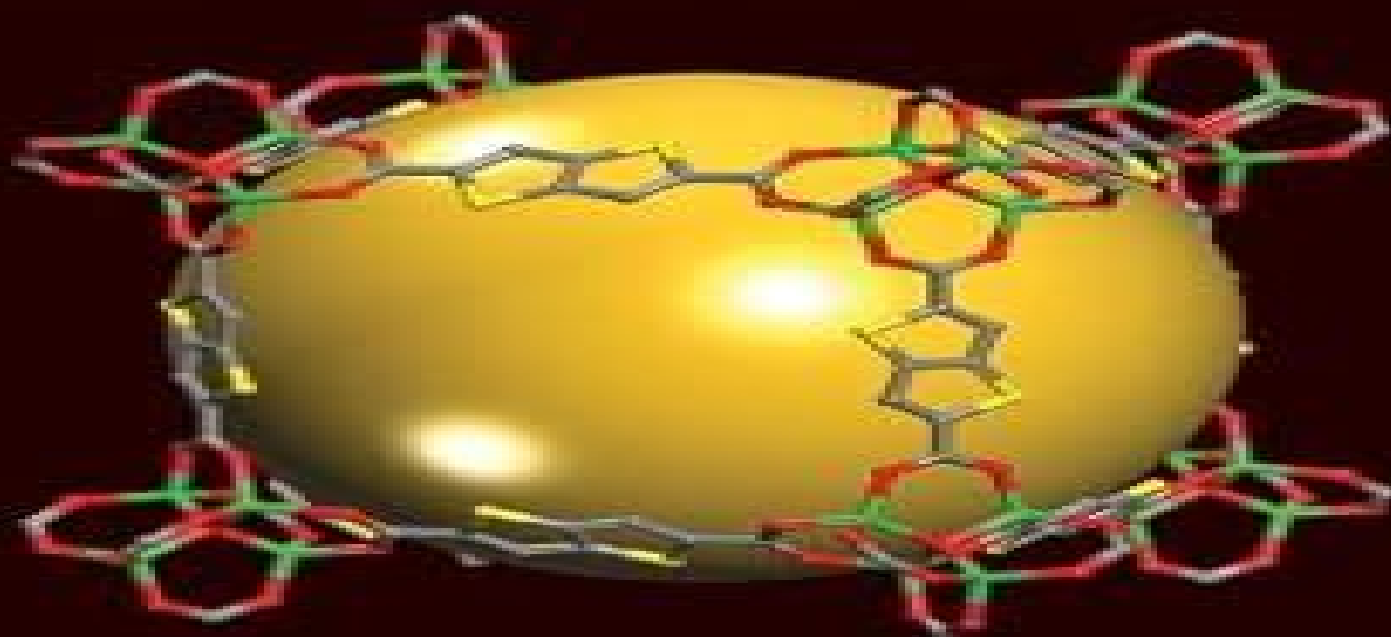


Metal-Organic Frameworks

Design and Application

Edited by Leonard R. MacGillivray



Metal Organic Frameworks Design And Application

Hafezeh Nabipour, Sohrab Rohani



Metal Organic Frameworks Design And Application:

Metal-Organic Frameworks Leonard R. MacGillivray, 2010-12-17 Metal organic frameworks represent a new class of materials that may solve the hydrogen storage problem associated with hydrogen fueled vehicles In this first definitive guide to metal organic framework chemistry author L MacGillivray addresses state of art developments in this promising technology for alternative fuels Providing professors graduate and undergraduate students structural chemists physical chemists and chemical engineers with a historical perspective as well as the most up to date developments by leading experts Metal Organic Frameworks examines structure symmetry supramolecular chemistry surface engineering metal organometallic frameworks properties and reactions

Metal-Organic Frameworks Leonard R. MacGillivray, 2010-08-09 Metal organic frameworks represent a new class of materials that may solve the hydrogen storage problem associated with hydrogen fueled vehicles In this first definitive guide to metal organic framework chemistry author L MacGillivray addresses state of art developments in this promising technology for alternative fuels Providing professors graduate and undergraduate students structural chemists physical chemists and chemical engineers with a historical perspective as well as the most up to date developments by leading experts Metal Organic Frameworks examines structure symmetry supramolecular chemistry surface engineering metal organometallic frameworks properties and reactions

Metal-Organic Framework Xian-He Bu, Michael J. Zaworotko, Zhenjie Zhang, 2020-05-28 The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field

Metal-Organic Framework Nanocomposites Anish Khan, Mohammad Jawaid, Abdullah Mohammed Ahmed Asiri, Wei Ni, Mohammed Muzibur Rahman, 2020-11-24 Metal Organic Framework Nanocomposites From Design to Application assembles the latest advances in MOF nanocomposites emphasizing their design characterization manufacturing and application and offering a wide ranging view of these materials with exceptional physical and chemical properties FEATURES Discusses various types of MOF materials such as polyaniline MOF nanocomposites magnetic MOF nanocomposites and carbon nanotube based MOF nanocomposites Includes chapters on the usage of these materials in pollutant removal electrochemical devices

photocatalysts biomedical applications and other applications Covers different aspects of composite fabrication from energy storage and catalysts including preparation design and characterization techniques Emphasizes the latest technology in the field of manufacturing and design Aimed at researchers academics and advanced students in materials science and engineering this book offers a comprehensive overview and analysis of these extraordinary materials

Metal Organic Framework Derived Materials Gomathi Nageswaran,2024 Metal organic frameworks MOF based materials are used for functional applications due to their large surface area high porosity tunable structure controllable morphology and surface functionality This book explores MOF derived materials focusing on their structural features synthesis methods unique properties and versatile applications including underlying chemistry It covers research developments in the field for design of novel carbon materials and metal based materials from MOF and their composites including specific applications The book provides a comprehensive idea regarding the fundamental chemistry of Metal Organic Framework MOF derived materials and covers all the aspects of MOF derived materials with focus on derived carbon metal species and composite materials It includes application of MOF derived materials specifically for environmental and energy and conveys a sense of relation between structure property and application of MOF derived materials It also explores developments in the different types of MOF derived materials This book is aimed at senior undergraduate graduate students and researchers in materials science chemical engineering and chemistry

Metal-Organic Framework Derived Materials Gomathi Nageswaran,Arun Kumar Rajasekaran,Varsha M. V,M. Shashank Rao,2024 This book explores MOF derived materials focusing on their structural features synthesis methods unique properties and versatile applications including underlying chemistry It covers research developments in field for design of novel carbon materials and metal based materials from MOF and their composites including specific applications

Applications of Metal-Organic Frameworks and Their Derived Materials Inamuddin,Rajender Boddula,Mohd Imran Ahamed,Abdullah M. Asiri,2020-05-04 Metal organic frameworks MOFs are porous crystalline polymers constructed by metal sites and organic building blocks Since the discovery of MOFs in the 1990s they have received tremendous research attention for various applications due to their high surface area controllable morphology tunable chemical properties and multifunctionalities including MOFs as precursors and self sacrificing templates for synthesizing metal oxides heteroatom doped carbons metal atoms encapsulated carbons and others Thus awareness and knowledge about MOFs and their derived nanomaterials with conceptual understanding are essential for the advanced material community This breakthrough new volume aims to explore down to earth applications in fields such as biomedical environmental energy and electronics This book provides an overview of the structural and fundamental properties synthesis strategies and versatile applications of MOFs and their derived nanomaterials It gives an updated and comprehensive account of the research in the field of MOFs and their derived nanomaterials Whether as a reference for industry professionals and nanotechnologists or for use in the classroom for graduate and postgraduate students faculty members and

research and development specialists working in the area of inorganic chemistry materials science and chemical engineering this is a must have for any library

Applications of Metal-Organic Framework Composites Hafezeh Nabipour, Sohrab Rohani, 2025-06-16 Applications of Metal Organic Framework Composites Exploring the Versatility of MOFs systematically describes the state of the art knowledge and fundamentals of metal organic frameworks synthesis structure and functionalization The book discusses the unique mechanical optical magnetic ferroelectric and electronic behaviors of metal organic frameworks covering various emerging applications across different fields including environmental pollutant removal biomedical applications water desalination packaging supercapacitor and energy storage EMI shielding catalysis gas separation chemical sensing fire retardancy water splitting antibacterial applications and battery technology All applications have been efficiently discussed in specific chapters and in each case the processing of metal organic frameworks composites has also been addressed The book enables readers to keep up with the latest advancements in the field and provides an overview of the current state of the art research Covers the synthesis characterization and functionalization of metal organic framework composites featuring detailed experimental protocols and examples Promotes a critical assessment of the challenges and limitations associated with metal organic framework composites as well as strategies for addressing these issues and optimizing their performance Offers guidance on the most promising directions for future research and development as well as practical information on the processing of metal organic framework composites for various applications

Metal-Organic Frameworks for Biomedical Applications Masoud Mozafari, 2020-03-03 Metal Organic Frameworks for Biomedical Applications is a comprehensive authoritative reference that offers a substantial and complete treatment of published results that have yet to be critically reviewed It offers a summary of current research and provides in depth understanding of the role of metal organic frameworks in biomedical engineering The title consists of twenty two chapters presented by leading international researchers in the field Chapters are arranged by target application in biomedical engineering allowing medical and pharmaceutical specialists to translate current materials and engineering science on metal organic frameworks into their work

Elaboration And Applications Of Metal-organic Frameworks Shengqian Ma, Jason A Perman, 2018-01-31 This title takes researchers in as well as out of the field of metal organic framework MOF and then guides them on a journey to rediscover and rethink how these designer coordination polymers will influence the realm of materials science This book opens with a look at a deeply controversial issue MOF stability which has plagued many systems but ultimately has led to better materials that proved to be more robust allowing them to be investigated for multiple applications This book successfully highlights many of these useful applications that MOFs are well adapted for Because MOF components inorganic and organic can combine the best of both chemical domains MOFs will improve our environment by removing harmful contaminants from the air and water reduce the energy required to perform chemical reactions partition hard to separate molecular mixtures and form the next generation of magnetic and electronic materials MOFs will

eventually be used for everyday activities for monitoring or reacting to changing conditions Readers of this book can then take note and implement MOFs in their line of research *The Chemistry of Metal-Organic Frameworks, 2 Volume Set* Stefan Kaskel, 2016-09-13 Providing vital knowledge on the design and synthesis of specific metal organic framework MOF classes as well as their properties this ready reference summarizes the state of the art in chemistry Divided into four parts the first begins with a basic introduction to typical cluster units or coordination geometries and provides examples of recent and advanced MOF structures and applications typical for the respective class Part II covers recent progress in linker chemistries while special MOF classes and morphology design are described in Part III The fourth part deals with advanced characterization techniques such as NMR in situ studies and modelling A final unique feature is the inclusion of data sheets of commercially available MOFs in the appendix enabling experts and newcomers to the field to select the appropriate MOF for a desired application A must have reference for chemists materials scientists and engineers in academia and industry working in the field of catalysis gas and water purification energy storage separation and sensors **Advanced**

Nanomaterials and Their Applications in Renewable Energy Jingbo Louise Liu, Sajid Bashir, 2015-08-06 Advanced Nanomaterials and Their Applications in Renewable Energy presents timely topics related to nanomaterials feasible synthesis and characterization and their application in the energy fields In addition the book provides insights and scientific discoveries in toxicity study with information that is easily understood by a wide audience Advanced energy materials are important in designing materials that have greater physical electronic and optical properties This book emphasizes the fundamental physics and chemistry underlying the techniques used to develop solar and fuel cells with high charge densities and energy conversion efficiencies New analytical techniques synchronous X ray which probe the interactions of particles and radiation with matter are also explored making this book an invaluable reference for practitioners and those interested in the science Provides a comprehensive review of solar energy fuel cells and gas storage from 2010 to the present Reviews feasible synthesis and modern analytical techniques used in alternative energy Explores examples of research in alternative energy including current assessments of nanomaterials and safety Contains a glossary of terms units and historical benchmarks Presents a useful guide that will bring readers up to speed on historical developments in alternative fuel cells

Rare Earth Metal-Organic Framework Hybrid Materials for Luminescence Responsive Chemical Sensors Bing Yan, 2022-06-01 Rare Earth Metal Organic Framework Hybrid Materials for Luminescence Responsive Chemical Sensors primarily focuses on rare earth functionalized metal organic framework MOF hybrid materials for sensing applications Sections cover an introduction to the field and key concepts like luminescence rare earth ion luminescence and luminescence response for chemical sensing Other section emphasize the luminescence response mode and sensing mechanisms of these important materials including single mode and dual mode sensing as well as chemical sensing mechanisms Final sections outline different kinds of sensing analytes by rare earth functionalized MOFs hybrids and delve into emerging application

This book is suitable for materials scientists and engineers materials chemists chemists and chemical engineers In addition the material is appropriate for those working in academia and R D in industry Authored by one of the world s leading experts on rare earth metal organic framework hybrid materials Introduces advanced concepts in luminescence and sensing mechanisms of metal organic framework hybrid materials Discusses the use of luminescence responsive chemical sensors based on metal organic frameworks for logic gate or imaging applications

Metal-Organic Framework Nanocomposites Anish Khan, Mohammad Jawaid, Abdullah Mohammed Ahmed Asiri, Wei Ni, Mohammed Muzibur Rahman, 2020-11-24 Metal Organic Framework Nanocomposites From Design to Application assembles the latest advances in MOF nanocomposites emphasizing their design characterization manufacturing and application and offering a wide ranging view of these materials with exceptional physical and chemical properties FEATURES Discusses various types of MOF materials such as polyaniline MOF nanocomposites magnetic MOF nanocomposites and carbon nanotube based MOF nanocomposites Includes chapters on the usage of these materials in pollutant removal electrochemical devices photocatalysts biomedical applications and other applications Covers different aspects of composite fabrication from energy storage and catalysts including preparation design and characterization techniques Emphasizes the latest technology in the field of manufacturing and design Aimed at researchers academics and advanced students in materials science and engineering this book offers a comprehensive overview and analysis of these extraordinary materials

Metal-Organic Frameworks (MOFs) for Environmental Applications Sujit K. Ghosh, 2019-06-07 Metal Organic Frameworks for Environmental Applications examines this important topic looking at potential materials and methods for the remediation of pressing pollution issues such as heavy metal contaminants in water streams radioactive waste disposal marine oil spillage the treatment of textile and dye industry effluents the clean up of trace amounts of explosives in land and water and many other topics This survey of the cutting edge research and technology of MOFs is an invaluable resource for researchers working in inorganic chemistry and materials science but it is also ideal for graduate students studying MOFs and their applications Examines the applications of metal organic frameworks for the remediation of environmental pollutants Features leading experts who research the applications of MOFs from around the world including contributions from the United States India and China Explores possible solutions to some of today s most pressing environmental challenges such as heavy metal contamination in bodies of water oil spills and clean up of explosives hidden in land and water Provides an excellent reference for researchers and graduate students studying in the areas of inorganic chemistry materials chemistry and environmental science

Metal-Organic Framework-Based Nanomaterials for Energy Conversion and Storage Ram K. Gupta, Tuan Anh Nguyen, Ghulam Yasin, 2022-05-10 Metal Organic Framework Based Nanomaterials for Energy Conversion and Storage addresses current challenges and covers design and fabrication approaches for nanomaterials based on metal organic frameworks for energy generation and storage technologies The effect of synthetic diversity functionalization ways of

improving conductivity and electronic transportation tuning in porosity to accommodate various types of electrolyte and the criteria to achieve the appropriate pore size shape and surface group of different metal sites and ligands are explored The effect of integration of other elements such as second metals or hetero atomic doping in the system to improve catalytic activity and durability are also covered This is an important reference source for materials scientists engineers and energy scientists looking to further their understanding on how metal organic framework based nanomaterials are being used to create more efficient energy conversion and storage systems Describes major metal organic framework based nanomaterials applications for fuel cell battery supercapacitor and photovoltaic applications Provides information on the various nanomaterial types used for creating the most efficient energy conversion and storage systems Assesses the major challenges of using nanotechnology to manufacture energy conversion and storage systems on an industrial scale

Recent Advances in Complex Functional Materials Elson Longo, Felipe de Almeida La Porta, 2017-07-12 In this book we explore new approaches to understanding the physical and chemical properties of emergent complex functional materials revealing a close relationship between their structures and properties at the molecular level The primary focus of this book is on the ability to synthesize materials with a controlled chemical composition a crystallographic structure and a well defined morphology Special attention is also given to the interplay of theory simulation and experimental results in order to interconnect theoretical knowledge and experimental approaches which can reveal new scientific and technological directions in several fields expanding the versatility to yield a variety of new complex materials with desirable applications and functions Some of the challenges and opportunities in this field are also discussed targeting the development of new emergent complex functional materials with tailored properties to solve problems related to renewable energy health and environmental sustainability A more fundamental understanding of the physical and chemical properties of new emergent complex functional materials is essential to achieving more substantial progress in a number of technological fields With this goal in mind the editors invited acknowledged specialists to contribute chapters covering a broad range of disciplines

Catalysis in Confined Frameworks Hermenegildo Garcia, Amarajothi Dhakshinamoorthy, 2023-10-12 Catalysis in Confined Frameworks Understanding the synthesis and applications of porous solid catalysts Heterogeneous catalysis is a catalytic process in which catalysts and reactants exist in different phases Heterogeneous catalysis with solid catalysts proceeds through the absorption of substrates and reagents which are liquid or gas and this is largely dependent on the accessible surface area of the solid which can generate active reaction sites The synthesis of porous solids is an increasingly productive approach to generating solid catalysts with larger accessible surface area allowing more efficient catalysis Catalysis in Confined Frameworks Synthesis Characterization and Applications provides a comprehensive overview of synthesis and use of porous solids as heterogeneous catalysts It provides detailed analysis of pore engineering a thorough characterization of the advantages and disadvantages of porous solids as heterogeneous catalysts and an extensive discussion of applications

The result is a foundational introduction to a cutting edge field Catalysis in Confined Frameworks Synthesis Characterization and Applications readers will also find An editorial team comprised of international experts with extensive experience Detailed discussion of catalyst classes including zeolites mesoporous aluminosilicates and more A special focus on size selective catalysis Catalysis in Confined Frameworks Synthesis Characterization and Applications is an essential reference for catalytic chemists organic chemists materials scientists physical chemists and any researchers or industry professionals working with heterogeneous catalysis

Porous Materials for Carbon Dioxide Capture An-Hui Lu, Sheng Dai, 2014-04-17

This multi authored book provides a comprehensive overview of the latest developments in porous CO₂ capture materials including ionic liquid derived carbonaceous adsorbents porous carbons metal organic frameworks porous aromatic frameworks micro porous organic polymers It also reviews the sorption techniques such as cyclic uptake and desorption reactions and membrane separations In each category the design and fabrication the comprehensive characterization the evaluation of CO₂ sorption separation and the sorption degradation mechanism are highlighted In addition the advantages and remaining challenges as well as future perspectives for each porous material are covered This book is aimed at scientists and graduate students in such fields as separation carbon polymer chemistry material science and technology who will use and appreciate this information source in their research Other specialists may consult specific chapters to find the latest authoritative reviews Dr An Hui Lu is a Professor at the State Key Laboratory of Fine Chemicals School of Chemical Engineering Faculty of Chemical Environmental and Biological Science and Technology Dalian University of Technology China Dr Sheng Dai is a Corporate Fellow and Group Leader in the Chemical Sciences Division at Oak Ridge National Laboratory ORNL and a Professor of Chemistry at the University of Tennessee USA

Supramolecular Coordination Complexes Sankarasekaran Shanmugaraju, 2022-09-30

Supramolecular Coordination Complexes Design Synthesis and Applications discusses the growth of the field and explores the advantages opportunities and latest applications of supramolecular complexes Beginning with an introduction to design principles synthetic methods and post synthetic functionalization of supramolecular complexes the book goes on to compile the different analytical and computational modeling methods used to understand the structure and functional properties of supramolecular structures Applications of supramolecular complexes in biomedicine sensing catalysis and materials are then explored in detail Drawing on the knowledge of a global team of experts this book provides a wealth of interesting information for students and researchers working in the design synthesis or application of such complexes Discusses cutting edge approaches for the investigation of supramolecular coordination chemistry Summarizes a varied range of supramolecular coordination complex designs and applications Highlights the interdisciplinary connections between supramolecular chemistry and the fields of biology and materials science

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