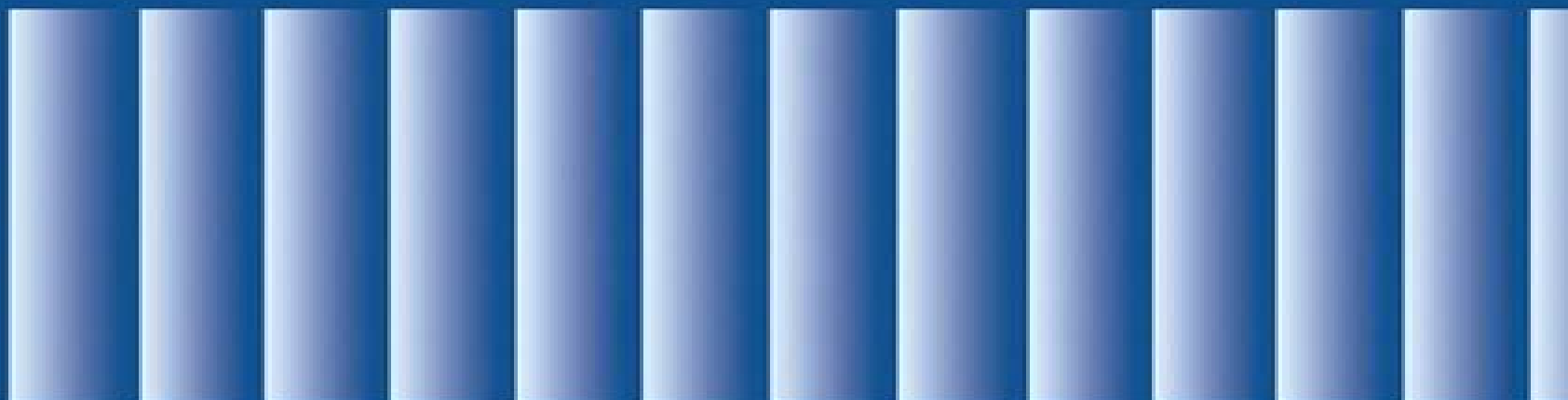


Modern Inorganic Chemistry
Series Editor: John P. Fackler, Jr.

OPTOELECTRONIC PROPERTIES OF INORGANIC COMPOUNDS



Edited by
D. Max Roundhill
and
John P. Fackler, Jr.

Optoelectronic Properties Of Inorganic Compounds

**Suresh Sagadevan, Jiban Podder, Faruq
Mohammad**



Optoelectronic Properties Of Inorganic Compounds:

Optoelectronic Properties of Inorganic Compounds D. Max Roundhill, John P. Fackler Jr., 1999-01-31 This book is intended to offer the reader a snapshot of the field of optoelectronic materials from the viewpoint of inorganic chemists The field of inorganic chemistry is transforming from one focused on the synthesis of compounds having interesting coordination numbers structures and stereochemistries to one focused on preparing compounds that have potentially useful practical applications Two such applications are in the area of optics and electronics These are fields where the use of inorganic materials has a long history As the field of microelectronics develops the demands on the performance of such materials increases and it becomes necessary to discover compounds that will meet these demands The field of optoelectronics represents a merging of the two disciplines Its emergence is a natural one because many of the applications involve both of these properties and also because the electronic structure of a metal compound that confers novel optical properties is often one that also influences its electron transfer and conductivity characteristics Two of the more important growth areas that have led to these developments are communications and medicine Within the communications field there is the microelectronics that is involved in information storage and transmittal some of which will be transferred into the optical regime Within the medical field there are chemical probes that transmit analytical information from an in vivo environment This information needs to be readily accessible from an external site and then quickly converted into images or data that yield accurate and inexpensive diagnoses

Optoelectronic Properties of Inorganic Compounds D. Max Roundhill, John P. Fackler Jr., 2013-03-09 This book is intended to offer the reader a snapshot of the field of optoelectronic materials from the viewpoint of inorganic chemists The field of inorganic chemistry is transforming from one focused on the synthesis of compounds having interesting coordination numbers structures and stereochemistries to one focused on preparing compounds that have potentially useful practical applications Two such applications are in the area of optics and electronics These are fields where the use of inorganic materials has a long history As the field of microelectronics develops the demands on the performance of such materials increases and it becomes necessary to discover compounds that will meet these demands The field of optoelectronics represents a merging of the two disciplines Its emergence is a natural one because many of the applications involve both of these properties and also because the electronic structure of a metal compound that confers novel optical properties is often one that also influences its electron transfer and conductivity characteristics Two of the more important growth areas that have led to these developments are communications and medicine Within the communications field there is the microelectronics that is involved in information storage and transmittal some of which will be transferred into the optical regime Within the medical field there are chemical probes that transmit analytical information from an in vivo environment This information needs to be readily accessible from an external site and then quickly converted into images or data that yield accurate and inexpensive diagnoses

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Semiconductors and their Optoelectronics Applications Vijay B. Pawade, Sanjay J. Dhoble, Hendrik C. Swart, 2022-01-21 Nanoscale Compound Semiconductors and their Optoelectronics Applications provides the basic and fundamental properties of nanoscale compound semiconductors and their role in modern technological products The book discusses all important properties of this important category of materials such as their optical properties size dependent properties and tunable properties Key methods are reviewed including synthesis techniques and characterization strategies The role of compound semiconductors in the advancement of energy efficient optoelectronics and solar cell devices is also discussed The book also touches on the photocatalytic property of the materials by doping with graphene oxides an emerging and new pathway Covers all relevant types of nanoscale compound semiconductors for optoelectronics including their synthesis properties and applications Provides historical context and review of emerging trends in semiconductor technology particularly emphasizing advances in non toxic semiconductor materials for green technologies Reviews emerging applications of nanoscale compound semiconductor based devices in optoelectronics energy and environmental sustainability **Encyclopedia of**

Supramolecular Chemistry - Two-Volume Set (Print) Jerry L. Atwood, Jonathan W. Steed, 2013-10-09 The two volume Encyclopedia of Supramolecular Chemistry offers authoritative centralized information on a rapidly expanding interdisciplinary field User friendly and high quality articles parse the latest supramolecular advancements and methods in the areas of chemistry biochemistry biology environmental and materials science and engineering physics computer science and applied mathematics Designed for specialists and students alike the set covers the fundamentals of supramolecular chemistry and sets the standard for relevant future research **Focus on Organometallic Chemistry Research** Marin A.

Cato, 2005 Organometallic chemistry is based on the reactions and use of a class of compounds R M that contain a covalent bond between carbon and metal They are prepared either by direct reaction of the metal with an organic compound or by replacement of a metal from another organometallic substance Research in organometallic chemistry is also conducted in the areas of cluster synthesis main group derivatives in unusual oxidation states organometallic polymers unstable organometallic compounds and intermediates in matrices structure determination of organometallic compounds in the solid state X ray diffraction and gaseous states electron diffraction and mechanisms of reactions of transient silylenes and related species In addition to the traditional metals and semimetals elements such as selenium lithium and magnesium are

considered to form organometallic compounds e g organomagnesium compounds MeMgI iodo methyl magnesium and diethylmagnesium which are Grignard reagents an organo lithium compound BuLi butyllithium Organometallic compounds often find practical use as catalysts the processing of petroleum products and the production of organic polymers

High-pressure Molecular Spectroscopy Ian S. Butler,2022-08-22 High pressure Molecular Spectroscopy describes examples of the applications of several spectroscopic methods to investigate the behavior of various chemical systems under high pressures including guest host interactions chemical reactions molecule based multiferroics lanthanide ion doped glasses and organic inorganic and organometallic materials The techniques involved include Luminescence studies Inelastic neutron scattering Infrared and Raman studies Synchrotron X ray diffraction Hybrid and Hierarchical Composite

Materials Chang-Soo Kim,Charles Randow,Tomoko Sano,2015-04-08 This book addresses a broad spectrum of areas in both hybrid materials and hierarchical composites including recent development of processing technologies structural designs modern computer simulation techniques and the relationships between the processing structure property performance Each topic is introduced at length with numerous and detailed examples and over 150 illustrations In addition the authors present a method of categorizing these materials so that representative examples of all material classes are discussed **Atoms,**

Molecules And Clusters In Electric Fields: Theoretical Approaches To The Calculation Of Electric Polarizability

George Maroulis,2006-07-31 With the central importance of electric polarizability and hyperpolarizability for a wide spectrum of activities this book charts the trends in the accurate theoretical determination of these properties in specialized fields The contributions include reviews and original papers that extend from methodology to applications in specific areas of primary importance such as cluster science and organic synthesis of molecules with specific properties a **MXene**

Reinforced Polymer Composites Kalim Deshmukh,Mayank Pandey,Chaudhery Mustansar Hussain,2024-01-26 MXene Reinforced Polymer Composites This volume is the first book to comprehensively explore the various fabrication and processing strategies for MXene reinforced polymer composites including detailed characterizations and their numerous applications The book systematically provides a critical discussion on the synthesis and processing methods structure properties characterizations surface chemistry and functionalization strategies of MXenes and their utilization as efficient nanofiller into various polymer matrices to form high performance polymer composites The book provides a deep insight into the recent state of the art progress in MXene reinforced polymer composites discussing several critical issues and providing suggestions for future work The key features of this book are Providing fundamental information and a clear understanding of the synthesis processing compositions structure and physicochemical properties of MXenes Presenting a comprehensive review of several recent accomplishments and key scientific and technological challenges in developing MXene reinforced polymer composites Exploring various processing and fabrication methods of MXene reinforced polymer composites Providing deep insight into fundamental properties and various emerging applications of MXene reinforced polymer

composites Audience Researchers postgraduates and industry engineers working in materials science polymer science materials engineering and nanotechnology as well as technologists in electronic electrical and biomedical industries

Oxide Electronics Asim K. Ray, 2021-04-12 Oxide Electronics Multiple disciplines converge in this insightful exploration of complex metal oxides and their functions and properties Oxide Electronics delivers a broad and comprehensive exploration of complex metal oxides designed to meet the multidisciplinary needs of electrical and electronic engineers physicists and material scientists The distinguished author eschews complex mathematics whenever possible and focuses on the physical and functional properties of metal oxides in each chapter Each of the sixteen chapters featured within the book begins with an abstract and an introduction to the topic clear explanations are presented with graphical illustrations and relevant equations throughout the book Numerous supporting references are included and each chapter is self contained making them perfect for use both as a reference and as study material Readers will learn how and why the field of oxide electronics is a key area of research and exploitation in materials science electrical engineering and semiconductor physics The book encompasses every application area where the functional and electronic properties of various genres of oxides are exploited Readers will also learn from topics like Thorough discussions of High k gate oxide for silicon heterostructure MOSFET devices and semiconductor dielectric interfaces An exploration of printable high mobility transparent amorphous oxide semiconductors Treatments of graphene oxide electronics magnetic oxides ferroelectric oxides and materials for spin electronics Examinations of the calcium aluminate binary compound perovskites for photovoltaics and oxide 2D Degs Analyses of various applications for oxide electronics including data storage microprocessors biomedical devices LCDs photovoltaic cells TFTs and sensors Suitable for researchers in semiconductor technology or working in materials science electrical engineering and physics Oxide Electronics will also earn a place in the libraries of private industry researchers like device engineers working on electronic applications of oxide electronics Engineers working on photovoltaics sensors or consumer electronics will also benefit from this book

Handbook of Nanomaterials for Industrial Applications Chaudhery Mustansar Hussain, 2018-07-19 Handbook of Nanomaterials for Industrial Applications explores the use of novel nanomaterials in the industrial arena The book covers nanomaterials and the techniques that can play vital roles in many industrial procedures such as increasing sensitivity magnifying precision and improving production limits In addition the book stresses that these approaches tend to provide green sustainable solutions for industrial developments Finally the legal economical and toxicity aspects of nanomaterials are covered in detail making this is a comprehensive important resource for anyone wanting to learn more about how nanomaterials are changing the way we create products in modern industry Demonstrates how cutting edge developments in nanomaterials translate into real world innovations in a range of industry sectors Explores how using nanomaterials can help engineers to create innovative consumer products Discusses the legal economical and toxicity issues arising from the industrial applications of nanomaterials *PEROVSKITES AND OTHER*

FRAMEWORK STRUCTURE CRYSTALLINE MATERIALS, 2021-01-14 Internet site of the book <http://perovskitesandotherfws.co.ac.com> Perovskites are among the most famous materials due to their exceptional properties they present nearly all existing types of interesting properties in particular as ferroics or multiferroics they may be insulators super conductors or semiconductors magnetoresistant they are used in numerous devices they present hundreds of variants and different crystalline phases and phase transitions and recently appeared as probably the most promising materials for photovoltaics With a crystal structure characterized by octahedra that share their corners these materials belong to the wider category of Framework Structure FWS materials the structure of which is based on units octahedra tetrahedra that share some of their corners or edges with their neighbours This particular feature of FWS materials confers to them unique properties This review volume is constituted of 26 chapters on different aspects and is divided in two parts Fundamental aspects and general properties and Elaborated materials and applied properties Its main purpose is to attempt to identify the properties common to all members of the vast family of FWS materials and understand their differences Besides perovskites derived compounds as 2D perovskites Dion Jacobson Ruddlesden Popper Aurivillius tungsten bronzes and others are presented and their preparation and or properties as single crystals ceramics thin films multilayers nanomaterials nanofibers nanorods etc are discussed We focus on new trends and important recent developments by leaving somewhat aside more classical aspects which can be easily found in older textbooks or review articles Among most recent applications this volume focuses on applications related with interactions with other molecules on photovoltaics and on memories with a special attention to perovskite solar cells that have certainly attracted the most attention of researchers in recent years opening extremely promising routes in photovoltaics In conclusion this book presents a collection of texts elucidating various aspects of the relation between structural organization including dynamical aspects and singular properties of framework crystals it proposes a reasonable balance between experimental and theoretical results and between fundamental aspects and applied properties This volume can be approached on several levels each chapter initially assumes that the reader is not a specialist in the subject and is presented in a pedagogical way it is accessible to master or doctoral students as well as to researchers who want to have informations on recent developments who will find excellent detailed introductions up to hot subjects It may also be used by undergraduate students who should approach given subjects The volume contains 800 pages written by 76 authors from different countries it has an index and is completed by numerous figures to illustrate the text This ebook is for personal use For institutional or multiple use please order according to the average expected number of simultaneous readers between 1 and 10 There is no subscription fee you pay once for ever

Smart Materials for Science and Engineering

Upendra Kumar, Piyush Kumar Sonkar, 2024-05-07 SMART MATERIALS FOR SCIENCE AND ENGINEERING

Smart materials also known as advanced or creative materials are described as advanced materials that react intuitively to environmental changes or as materials that can return to their original shape in response to certain stimuli Smart materials

are classified as either active or passive based on their characteristics. There are two types of active materials. The first kind cannot change its characteristics when subjected to outside stimuli, for example, photochromatic spectacles that only alter their color when exposed to sunlight. The other, which includes piezoelectric materials, can change one sort of energy (thermal, electrical, chemical, mechanical, or optical) into another. When subjected to external pressure, it can generate an electric charge. As an example, optical fibers can transmit electromagnetic waves. In contrast, passive smart materials can transmit a specific sort of energy. They have some amazing qualities that set them apart from other materials, such as transiency, meaning they can react to different kinds of external stimuli immediately, self-actuation, or the capacity to change their appearance and shape selectively, where the response is divided and expected directness when the response is limited to the activating event, shape changing, where the material can change its shape to external stimuli, their ability to determine their own health, also known as self-diagnosis, and their ability to self-heal. The ability to synthesize novel materials has substantially progressed thanks to science and technology over the past 20 years. They fall mostly into the following four categories: polymers, ceramics, metals, and smart materials. Among these, smart materials are gaining popularity since they have more uses than conventional materials. Smart materials are unusual substances that have the ability to alter their properties, such as those that can immediately change their phase when placed near a magnet or their shape simply by applying heat. Humanity will be significantly impacted by this new era of smart materials. For instance, some of them can adapt their properties to the environment, some have sensory capabilities, some can repair themselves automatically, and some can degrade themselves. These extraordinary properties of smart materials will have an effect on all facets of civilization. There are many different types of intelligent materials, including magnetorheological materials, electro-rheostat materials, shape memory alloys, piezoelectric materials, and more. This book describes many forms of smart materials and their possible uses in various fields. A literature survey discusses the different types of smart materials, such as based ceramics, polymers, and organic compounds, and their needs, advantages, disadvantages, and applications will be comprehensively discussed. A discussion of well-established smart materials, including piezoelectric, magnetostrictive, shape memory alloy, electro-rheological fluid, and magnetorheological fluid materials, will be discussed with their present prospects.

Understanding Intermolecular Interactions in the Solid State Deepak Chopra, 2018-09-04. An overview of the latest techniques for studying intermolecular interactions in crystalline matter.

Metal Dihydrogen and σ -Bond Complexes Gregory J. Kubas, 2006-04-18. According to R. H. Crabtree, Metal Dihydrogen and sigma Bond Complexes is described as the definitive account of twentieth-century work in the area of sigma complexation. It covers not only Kubas' discovery of dihydrogen coordination and the study of its structure and general properties but also discusses both the theoretical beliefs and experimental results of bonding and activation of dihydrogen on metal centers and the coordination and activation of C-H, B-H, X-H, and X-Y bonds, giving an overview of one of the hottest areas in chemistry.

Proceedings of the 1st International Conference on Materials and Thermophysical

Properties Sarita Kumari, Amanpal Singh, Balram Tripathi, Mahesh Baboo, 2025-07-01 This book highlights the latest research advancements and developments in the fields of materials science and thermophysical properties. It includes peer-reviewed articles from the 1st International Conference on Materials and Thermophysical Properties ICMTP 2024 held at the University of Rajasthan Jaipur India from November 21 to 23. The proceedings cover a wide range of topics including polymeric materials, multifunctional materials, materials for energy and biological applications, glass and ceramic materials, and thermophysical properties. With contributions from leading scientists, researchers, and industry professionals, this book serves as a valuable resource for academicians and practitioners alike, fostering knowledge exchange and collaboration in these critical areas of research. The topics and subtopics of the edited book may be arranged in the following manner: Section I Polymeric Materials, Section II Multifunctional Materials, Section III Materials for Biological Applications, Section IV Materials for Energy Applications, Section V Glass and Ceramic Materials, Section VI Materials for Nuclear Applications.

Optical and Molecular Physics Miguel A. Esteso, Ana Cristina Faria Ribeiro, Soney C. George, Ann Rose Abraham, A. K. Haghi, 2021-09-30 *Optical and Molecular Physics: Theoretical Principles and Experimental Methods* addresses many important applications and advances in the field. This book is divided into 5 sections: Plasmonics and carbon dots physics with applications, Optical films, fibers, and materials, Optical properties of advanced materials, Molecular physics and diffusion, and Macromolecular physics. Weaving together science and engineering, this new volume addresses important applications and advances in optical and molecular physics. It covers plasmonics and carbon dots physics with applications, optical films, fibers, and materials, optical properties of advanced materials, molecular physics and diffusion, and macromolecular physics. This book looks at optical materials in the development of composite materials for the functionalization of glass, ceramic, and polymeric substrates to interact with electromagnetic radiation and presents state-of-the-art research in preparation methods, optical characterization, and usage of optical materials and devices in various photonic fields. The authors discuss devices and technologies used by the electronics, magnetics, and photonics industries and offer perspectives on the manufacturing technologies used in device fabrication.

Metal Oxides for Optoelectronics and Optics-Based Medical Applications Suresh Sagadevan, Jiban Podder, Faruq Mohammad, 2022-07-01 *Metal Oxides for Optoelectronics and Optics-based Medical Applications* reviews recent advances in metal oxides and their mechanisms for optoelectronic, photoluminescent, and medical applications. In addition, the book examines the integration of key chemistry concepts with nanoelectronics that can improve performance in a diverse range of applications. Sections place a strong emphasis on synthesis processes that can improve the metal oxides' physical properties and the reflected surface chemical changes that can impact their performance in various devices like light-emitting diodes, luminescence materials, solar cells, etc. Finally, the book discusses the challenges associated with the handling and maintenance of metal oxides' crystalline properties. This book will be suitable for academics and those working in R & D in industry looking to learn more about cheaper and more effective methods to produce metal oxides for use.

in the fields of electronics photonics biophotonics and engineering Reviews the latest advances in the utilization of metal oxide materials in photonics optoelectronics and optics based medical applications Considers the most relevant synthesis strategies for the development of high performing metal oxide based devices Addresses a wide range of metal oxides including photonic crystals fibers metastructures glasses and more **Perovskite Optoelectronic Devices** Basudev Pradhan,2024-06-22 This book delves into the practical applications of perovskite materials in optoelectronics covering solar cells light emitting diodes photodetectors neuromorphic devices lasers and X ray detectors in various forms including bulk two dimensional 2D and zero dimensional 0D It addresses the pressing need for scalable fabrication processes performance optimization and stability concerns associated with perovskite based devices With a detailed examination of fundamental properties and challenges this book serves as a comprehensive guide for scientists technologists and engineers involved in developing and optimizing perovskite based optoelectronic devices for commercialization Furthermore it fills a significant gap in the literature by providing in depth coverage of perovskite solar cells and other emerging optoelectronic technologies making it an essential resource for researchers and practitioners in materials and device physics

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