

ORGANIC MOLECULAR SOLIDS

*Properties and
Applications*



Edited by
William Jones

Organic Molecular Solids Properties And Applications

William Jones



Organic Molecular Solids Properties And Applications:

Organic Molecular Solids William Jones, 2019-09-17 Interest in organic molecular solids extends to a range of fields including chemistry physics electrical engineering and materials science In chemistry it applies to such topics as solid state reactivity crystal engineering theoretical approaches to crystal structure determination and morphology control In physics electrical engineering and materials science the possibility of producing organic based materials such as crystals polymers thin films or liquid crystals with potential electronic opto electronic and magnetic uses is a major area of current research interest throughout the world *Organic Molecular Solids* examines the uses of organic based materials over a wide range of applications and interests Each chapter surveys a relevant topic providing appropriate introductory background information and modern developments

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Organic Molecular Solids Markus Schwoerer, Hans Christoph Wolf, 2008-09-26 This is the first comprehensive textbook on the physical aspects of organic solids All phenomena which are necessary in order to understand modern technical applications are being dealt with in a way which makes the concepts of the topics accessible for students The chapters from the basics production and characterization of organic solids and layers to organic semiconductors superconductors and opto electronical applications have been arranged in a logical and well thought out order

Metal-Organic and Organic Molecular Magnets Peter Day, Alan E Underhill, 2007-10-31 Traditionally magnetic materials have been metals or inorganic compounds such as oxides of continuous lattice type However in recent years chemists have synthesized increasing numbers of crystalline solids based on molecular building blocks in the form of coordination and organometallic complexes or purely organic molecules which exhibit spontaneous magnetization In striking contrast to conventional magnets these materials are made from solutions close to room temperature rather than by metallurgical or ceramic methods This book which originates from contributions to a Discussion Meeting of The Royal Society of London brings together many of the leading international practitioners in the field who survey their own recent work and place it in the context of the wider fields of magnetism and supramolecular chemistry All aspects of molecular based magnets are addressed including synthesis structure property relations and physical properties Contents include details of the characterization of the first purely organic ferromagnet the synthesis of high coercivity

materials and a unique description of new materials with Curie temperatures well above ambient A coherent survey of this rapidly developing field for the more general reader Metal Organic and Organic Molecular Magnets will also be welcomed by researchers and lecturers in materials science and inorganic or solid state chemistry [Organic Light-Emitting Diodes](#) Jan Kalinowski, 2018-10-03 Organic Light Emitting Diodes Principles Characteristics and Processes presents recent developments in organic electroluminescence and their application to light emitting diodes In six chapters and complete with an extensive set of references it describes and illustrates the physical principles of organic LEDs and their electrical and optical characteristics with a wide range of examples and practical studies The author presents a unified approach to the description and functioning of organic LEDs based on a comprehensive background of relevant physical processes and provides a clear foundation for the prediction and design of new improved electroluminescent devices [Metal-Organic Frameworks for Photonics Applications](#) Banglin Chen, Guodong Qian, 2014-07-08 The series Structure and Bonding publishes critical reviews on topics of research concerned with chemical structure and bonding The scope of the series spans the entire Periodic Table and addresses structure and bonding issues associated with all of the elements It also focuses attention on new and developing areas of modern structural and theoretical chemistry such as nanostructures molecular electronics designed molecular solids surfaces metal clusters and supramolecular structures Physical and spectroscopic techniques used to determine examine and model structures fall within the purview of Structure and Bonding to the extent that the focus is on the scientific results obtained and not on specialist information concerning the techniques themselves Issues associated with the development of bonding models and generalizations that illuminate the reactivity pathways and rates of chemical processes are also relevant The individual volumes in the series are thematic The goal of each volume is to give the reader whether at a university or in industry a comprehensive overview of an area where new insights are emerging that are of interest to a larger scientific audience Thus 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 should be presented using selected examples to illustrate the principles discussed A description of the physical basis of the experimental techniques that have been used to provide the primary data may also be appropriate if it has not been covered in detail elsewhere The coverage need not be exhaustive in data but should rather be conceptual concentrating on the new principles being developed that will allow the reader who is not a specialist in the area covered to understand the data presented Discussion of possible future research directions in the area is welcomed Review articles for the individual volumes are invited by the volume editors Readership research scientists at universities or in industry graduate students Special offer For all customers who have a standing order to the print version of Structure and Bonding we offer free access to the electronic volumes of the Series published in the current year via SpringerLink [Phthalocyanine Research and Applications](#) Arthur L. Thomas, 1990-05-24 The purpose of this monograph is to provide a summary for those who are active

in the field of phthalocyanine research This volume allows the reader to quickly and at a reasonable cost determine what is being accomplished so that he may plan his own research programs It covers such topics as synthesis reactions inks energy systems coatings toners and electrophotographic plates and developers just to name a few Packed with over 40 structural drawings of phthalocyanine molecules this one of a kind reference provides the necessary description and visualization to stimulate further research This work is an indispensable resource for researchers and practitioners both novice and experienced in the field of phthalocyanine science and technology

Organic Nanostructures: Science and Applications V.M. Agranovich, G.C. la Rocca, 2002-11-19 In this Enrico Fermi School the first one dedicated to advanced organic materials the main research results and open problems in science and technology of organic nanostructures have been discussed in particular growth techniques electronic and optical properties device applications The necessary background material has been covered and interdisciplinary aspects have been emphasized with the aim of a unified approach to the basic physical phenomena bridging the gap between standard graduate courses and the state of the art in the field The lecturers have provided authoritative and comprehensive tutorial reviews of the main issues involved in the science and technology of organic materials and their nanostructures In particular the following topics have been specifically addressed charge carrier mobility and transport properties electrical conductivity of conjugated polymers charge transfer states in organics photorefractivity in organics energy transfer processes in organics photophysics and fast spectroscopy technology of polymer electronics and light emitting devices

Engineering of Crystalline Materials Properties Juan J. Novoa, Dario Braga, Lia Addadi, 2007-12-14 This volume collects the state of the art in molecular materials It collects the lecture notes of a series of lectures given by some of the best specialists in the field at the 2007 Erice International School of Crystallography and also a NATO ASI course The school first established where we are in terms of modeling design synthesis and applications of crystalline solids with predefined properties and then defined current and possible futuristic lines of development

Handbook of Organic Materials for Optical and (Opto)Electronic Devices Oksana Ostroverkhova, 2013-08-31 Small molecules and conjugated polymers the two main types of organic materials used for optoelectronic and photonic devices can be used in a number of applications including organic light emitting diodes photovoltaic devices photorefractive devices and waveguides Organic materials are attractive due to their low cost the possibility of their deposition from solution onto large area substrates and the ability to tailor their properties The Handbook of organic materials for optical and optoelectronic devices provides an overview of the properties of organic optoelectronic and nonlinear optical materials and explains how these materials can be used across a range of applications Parts one and two explore the materials used for organic optoelectronics and nonlinear optics their properties and methods of their characterization illustrated by physical studies Part three moves on to discuss the applications of optoelectronic and nonlinear optical organic materials in devices and includes chapters on organic solar cells electronic memory devices and electronic chemical sensors electro optic devices

The Handbook of organic materials for optical and opto electronic devices is a technical resource for physicists chemists electrical engineers and materials scientists involved in research and development of organic semiconductor and nonlinear optical materials and devices Comprehensively examines the properties of organic optoelectronic and nonlinear optical materials Discusses their applications in different devices including solar cells LEDs and electronic memory devices An essential technical resource for physicists chemists electrical engineers and materials scientists *Inorganic and Bio-Inorganic Chemistry - Volume I* Ivano Bertini,2009-02-10 Inorganic and Bio Inorganic Chemistry is the component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Inorganic and Bio Inorganic Chemistry in the Encyclopedia of Chemical Sciences Engineering and Technology Resources deals with the discipline which studies the chemistry of the elements of the periodic table It covers the following topics From simple to complex compounds Chemistry of metals Inorganic synthesis Radicals reactions with metal complexes in aqueous solutions Magnetic and optical properties Inorganometallic chemistry High temperature materials and solid state chemistry Inorganic biochemistry Inorganic reaction mechanisms Homogeneous and heterogeneous catalysis Cluster and polynuclear compounds Structure and bonding in inorganic chemistry Synthesis and spectroscopy of transition metal complexes Nanosystems Computational inorganic chemistry Energy and inorganic chemistry These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs Charge Transport in Disordered Solids with Applications in Electronics Sergei Baranovski,2006-08-14 The field of charge conduction in disordered materials is a rapidly evolving area owing to current and potential applications of these materials in various electronic devices This text aims to cover conduction in disordered solids from fundamental physical principles and theories through practical material development with an emphasis on applications in all areas of electronic materials International group of contributors Presents basic physical concepts developed in this field in recent years in a uniform manner Brings up to date in a one stop source a key evolving area in the field of electronic materials **Organic Solid State Reactions** Fumio Toda,2005-03-23 with contributions by numerous experts *Optics of Nanomaterials* Vladimir I. Gavrilenko,2019-11-08 Nanomaterials are mainly categorized into three groups fundamental building blocks dispersions or composites of building blocks in randomly ordered matrices and spatially resolved ordered nanostructures Today nanomaterials that offer some unique optical properties may find application as pure materials or may be integrated into larger structures This book presents examples of both pure and composite materials that include organic inorganic nanocomposites and quantum dots embedded into different matrices for various applications in modern nanotechnology This edition has been thoroughly revised and updated with the most recent developments in the field The newly added introductory paragraphs will help students and young researchers in better understanding the chapters The

new sections on frequently used physical constants and units conversions as well as the updated bibliography add to the book's utility. This textbook is unique compared with its counterparts in the market in respect of its scope as it contains introductory sections to the important topics on nanomaterial optics. This feature broadens its readership from engineers and researchers working in the field of materials science and optics to lecturers, graduate students and beginners who want to deepen their knowledge in nanomaterial optics.

Engineering Crystallography: From Molecule to Crystal to Functional Form Kevin J. Roberts, Robert Docherty, Rui Tamura, 2017-07-18. This book highlights the current state of the art regarding the application of applied crystallographic methodologies for understanding, predicting and controlling the transformation from the molecular to crystalline state with the latter exhibiting pre-defined properties. This philosophy is built around the fundamental principles underpinning the three inter-connected themes of Form, what Formation, how and Function, why. Topics covered include molecular and crystal structure, chirality and ferromagnetism, supramolecular assembly, defects and reactivity, morphology and surface energetics. Approaches for preparing crystals and nano-crystals with novel physical, chemical and mechanical properties include crystallisation, seeding, phase diagrams, polymorphic control, chiral separation, ultrasonic techniques and mechano-chemistry. The vision is realised through examination of a range of advanced analytical characterisation techniques including in situ studies. The work is underpinned through an unprecedented structural perspective of molecular features, solid state packing arrangements and surface energetics as well as in situ studies. This work will be of interest to researchers, industrialists, intellectual property specialists and policy makers interested in the latest developments in the design and supply of advanced, high added value organic solid form materials and product composites.

Functional Supramolecular Materials Rahul Banerjee, 2017-05-05. Supramolecular materials have a great number of applications due to the reversibility of their non-covalent molecular interactions such as reversible hydrogen bonding, host-guest interactions and electrostatic interactions. This book provides a comprehensive source of information on the structure and function of organic and metal-organic supramolecular materials. The chapters of this book provide an overview of supramolecular material assembly at various scales including the formation of 2D polymers and molecular cages. The role of intermolecular interactions in solid and solution state self-assembly is discussed as is the role of mechanochemistry on molecular and supramolecular architectures. Finally, novel applications of these materials in molecular recognition, catalysis, light harvesting and environmental remediation are covered. Functional Supramolecular Materials will be of interest to graduate students and researchers in academia and industry in the fields of supramolecular chemistry and functional materials science.

Electrical, Optical, and Magnetic Properties of Organic Solid-state Materials V Susan Ermer, 2000. This volume, the fifth in a popular series, features papers related to the development and utilization of materials with novel electrical, optical or magnetic properties. The field has experienced tremendous growth in the past years and this volume provides a forum for materials scientists, chemists, physicists and engineers to assess the progress. In

particular light emitting materials for displays are showing great promise for widespread commercialization Developments in molecular engineering and self assembly as well as in conducting polymers are enabling better performance and greater scientific understanding of the phenomena underlying these advances Improvements in electro optic photorefractive and two photon absorbing materials are also being realized and are addressed here

Handbook of Elastic Properties of Solids, Liquids, and Gases, Four-Volume Set Moises Levy, Henry Bass, Richard Stern, 2000-10-23 Sound waves propagate through galactic space through two dimensional solids through biological systems through normal and dense stars and through everything that surrounds us the earth the sea and the air We use sound to locate objects to identify objects to understand processes going on in nature to communicate and to entertain The elastic properties of materials determine the velocity of sound in them and tell us about their response to stresses something which is very important when we are trying to construct manufacture or create something with any material The Handbook of Elastic Properties of Materials will provide these characteristics for almost everything whose elastic properties has ever been measured or deduced in a concise and approachable manner Leading experts will explain the significance of the elastic properties as they relate to intrinsic microscopic behavior to manufacturing to construction or to diagnosis They will discuss the propagation of sound in newly discovered or created materials and in common materials which are being investigated with a fresh outlook The Handbook will provide the reader with the elastic properties of the common and mundane the novel and unique the immense and the microscopic and the exorbitantly dense and the ephemeral You will also find the measurement And theoretical techniques that have been developed and invented in order to extract these properties from a reluctant nature and recalcitrant systems Key Features Solids liquids and gases covered in one handbook Articles by experts describing insights developed over long and illustrious careers Properties of esoteric substances such as normal and dense stars superfluid helium three fullness two dimensional solids extraterrestrial substances gems and planetary atmospheres Properties of common materials such as food wood used for musical instruments paper cement and cork Modern dynamic elastic properties measurement techniques

Electrical and Related Properties of Organic Solids R.W. Munn, Andrzej Miniewicz, Bogdan Kuchta, 2012-12-06 Organic solids exhibit a wide range of electrical and related properties They occur as crystals glasses polymers and thin films they may be insulators semiconductors conductors or superconductors and they may show luminescence nonlinear optical response and complex dynamical behaviour The book provides a broad survey of this area written by international experts one third being drawn from Eastern Europe Electrical optical spectroscopic and structural aspects are all treated in a way that gives an excellent introduction to current themes in this highly interdisciplinary and practically important area The coverage is especially strong in the areas where electrical and optical properties overlap such as photoconductivity electroluminescence electroabsorption electro optics and photorefraction

Handbook of Superconducting Materials David A. Cardwell, David S. Ginley, 2003

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