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J. Kahovec (Ed.)

**Electronic
Phenomena in
Organic Solids**



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Electronic Phenomena In Organic Solids

Michael Rajnik



Electronic Phenomena In Organic Solids:

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, electrooptics and photorefraction.

Electronic Phenomena in Organic Solids Jaroslav Kahovec, 2004. This volume contains papers based on many aspects of electrical and optical properties of organic solids. The papers were presented as lectures and posters at the 9th International Conference on Electrical and Related Properties of Organic Solids held in Prague in July 2002.

OJI International Seminar on Organic Semiconductors H. Inokuchi, 1989. **Organic Electroluminescence** Zakya H. Kafafi, 2018-10-03. Organic light emitting diode (OLED) technology has achieved significant penetration in the commercial market for small, low voltage and inexpensive displays. Present and future novel technologies based on OLEDs involve rigid and flexible flat panel displays, solid state lighting and lasers. Display applications may range from hand-held devices to large flat panel screens that can be rolled up or hung flat on a wall or a ceiling. Organic Electroluminescence gives an overview of the on-going research in the field of organic light emitting materials and devices, covering the principles of electroluminescence in organic thin films as well as recent trends, current applications and future potential uses. The book begins by giving a background of organic electroluminescence in terms of history and basic principles. It offers details on the mechanisms of electroluminescence in thin organic films. It presents in depth discussions of the parameters that control the external electroluminescence quantum efficiency, including the photoluminescence quantum yield, the light output coupling factor, carrier charge injection and transport, and electron and hole recombination processes in organic semiconductors. The authors address the design and the characterization of amorphous charge transport materials with high glass transition temperatures, light emitting small molecules and conjugated polymers. The book covers state-of-the-art concepts and technologies such as fluorescent and phosphorescent OLEDs, various approaches for patterning organics and active matrix organic emissive displays, including their back panel thin film transistors and pixel electronics. It concludes by summarizing future directions for OLEDs in organic light emitting displays, large area distributed solid state light sources and lasers using organic thin films, nanostructures and photonic crystals. Organic Electroluminescence is an excellent resource and reference for students.

Organic Optoelectronics Wenping Hu, Fenglian Bai, Xiong Gong, Xiaowei Zhan, Hongbing Fu, Thomas Bjornholm, 2012-11-05. Written by internationally recognized

experts in the field with academic as well as industrial experience this book concisely yet systematically covers all aspects of the topic The monograph focuses on the optoelectronic behavior of organic solids and their application in new optoelectronic devices It covers organic field effect and organic electroluminescent materials and devices organic photonics materials and devices as well as organic solids in photo absorption and energy conversion Much emphasis is laid on the preparation of functional materials and the fabrication of devices from materials synthesis and purification to physicochemical properties and the basic processes and working principles of the devices The only book to cover fundamentals applications and the latest research results this is a handy reference for both researchers and those new to the field From the contents Electronic process in organic solids Organic polymeric semiconductors for field effect transistors Organic polymeric field effect transistors Organic circuits and organic single molecular transistors Polymer light emitting Diodes PLEDs devices and materials Organic solids for photonics Organic photonic devices Organic solar cells based on small molecules Polymer solar cells Dye sensitized solar cells DSSCs Organic thermoelectric power devices 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 opto electronic 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 **Nano and Molecular Electronics Handbook** Sergey Edward Lyshevski, 2018-10-03 There are fundamental and technological limits of conventional microfabrication and microelectronics Scaling down conventional devices and attempts to develop novel topologies and architectures will soon be ineffective or unachievable at the device and system levels to ensure desired performance Forward looking experts continue to search for new paradigms to carry the field beyond the age of microelectronics and molecular electronics is one of the most promising candidates The

Nano and Molecular Electronics Handbook surveys the current state of this exciting emerging field and looks toward future developments and opportunities Molecular and Nano Electronics Explained Explore the fundamentals of device physics synthesis and design of molecular processing platforms and molecular integrated circuits within three dimensional topologies organizations and architectures as well as bottom up fabrication utilizing quantum effects and unique phenomena Technology in Progress Stay current with the latest results and practical solutions realized for nanoscale and molecular electronics as well as biomolecular electronics and memories Learn design concepts device level modeling simulation methods and fabrication technologies used for today s applications and beyond Reports from the Front Lines of Research Expert innovators discuss the results of cutting edge research and provide informed and insightful commentary on where this new paradigm will lead The Nano and Molecular Electronics Handbook ranks among the most complete and authoritative guides to the past present and future of this revolutionary area of theory and technology

Excitations in Organic Solids

Vladimir M. Agranovich, 2009-02-12 During the last decade our expertise in nanotechnology has advanced considerably The possibility of incorporating in the same nanostructure different organic and inorganic materials has opened up a promising field of research and has greatly increased the interest in the study of properties of excitations in organic materials In this book not only the fundamentals of Frenkel exciton and polariton theory are described but also the electronic excitations and electronic energy transfers in quantum wells quantum wires and quantum dots at surfaces at interfaces in thin films in multilayers and in microcavities Among the new topics in the book are those devoted to the optics of hybrid Frenkel Wannier Mott excitons in nanostructures polaritons in organic microcavities including hybrid organic inorganic microcavities new concepts for organic light emitting devices the mixing of Frenkel and charge transfer excitons in organic quasi one dimensional crystals excitons and polaritons in one and two dimensional crystals surface electronic excitations optical biphonons and Fermi resonances by polaritons All new phenomena described in the book are illustrated by available experimental observations The book will be useful for scientists working in the field of photophysics and photochemistry of organic solids for example organic light emitting devices and solar cells and for students who are entering this field It is partly based on a book by the author written in 1968 Theory of Excitons in Russian However the new book includes only 5 chapters from this version all of which have been updated The 10 new chapters contain discussions of new phenomena their theory and their experimental observations

Electronic Processes in Organic Electronics

Hisao Ishii, Kazuhiro Kudo, Takashi Nakayama, Nobuo Ueno, 2015-01-07 The book covers a variety of studies of organic semiconductors from fundamental electronic states to device applications including theoretical studies Furthermore innovative experimental techniques e g ultrahigh sensitivity photoelectron spectroscopy photoelectron yield spectroscopy spin resolved scanning tunneling microscopy STM and a material processing method with optical vortex and polarization vortex lasers are introduced As this book is intended to serve as a textbook for a graduate level course or as reference material for researchers

in organic electronics and nanoscience from electronic states fundamental science that is necessary to understand the research is described It does not duplicate the books already written on organic electronics but focuses mainly on electronic properties that arise from the nature of organic semiconductors molecular solids The new experimental methods introduced in this book are applicable to various materials e g metals inorganic and organic materials Thus the book is also useful for experts working in physics chemistry and related engineering and industrial fields

Organic Field-Effect Transistors

Zhenan Bao, Jason Locklin, 2018-10-03 The remarkable development of organic thin film transistors OTFTs has led to their emerging use in active matrix flat panel displays radio frequency identification cards and sensors Exploring one class of OTFTs Organic Field Effect Transistors provides a comprehensive multidisciplinary survey of the present theory charge transport studies synthetic methodology materials characterization and current applications of organic field effect transistors OFETs Covering various aspects of OFETs the book begins with a theoretical description of charge transport in organic semiconductors at the molecular level It then discusses the current understanding of charge transport in single crystal devices small molecules and oligomers conjugated polymer devices and charge injection issues in organic transistors After describing the design rationales and synthetic methodologies used for organic semiconductors and dielectric materials the book provides an overview of a variety of characterization techniques used to probe interfacial ordering microstructure molecular packing and orientation crucial to device performance It also describes the different processing techniques for molecules deposited by vacuum and solution followed by current technological examples that employ OTFTs in their operation Featuring respected contributors from around the world this thorough up to date volume presents both the theory behind OFETs and the latest applications of this promising technology

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

Organic Electronic Materials

R. Farchioni, G. Grosso, 2013-11-21 Studies on the electronic properties of conjugated polymers and low molecular weight organic solids have been of increasing interest in recent years This book is organized into two parts dedicated to these two classes of materials For each part a general introductory review provides background knowledge of the language and of the main points required for understanding the book s contents The reviews that follow provide a more complete understanding of the underlying physics of the materials through discussion of the interconnected topics Theoretical concepts models and methods are overviewed this is used to support the explanation of the physical and chemical properties of these materials

The presentation of selected aspects of experimental research greatly contributes to the basic understanding of organic electronic materials

Organic and Molecular Electronics Michael C. Petty, 2019-01-04 An introduction to the interdisciplinary subject of molecular electronics revised and updated The revised second edition of Organic and Molecular Electronics offers a guide to the fabrication and application of a wide range of electronic devices based around organic materials and low cost technologies Since the publication of the first edition organic electronics has greatly progressed as evidenced by the myriad companies that have been established to explore the new possibilities The text contains an introduction into the physics and chemistry of organic materials and includes a discussion of the means to process the materials into a form in most cases a thin film where they can be exploited in electronic and optoelectronic devices The text covers the areas of application and potential application that range from chemical and biochemical sensors to plastic light emitting displays The updated second edition reflects the recent progress in both organic and molecular electronics and Offers an accessible resource for a wide range of readers Contains a comprehensive text that covers topics including electrical conductivity optical phenomena electroactive organic compounds tools for molecular electronics and much more Includes illustrative examples based on the most recent research Presents problems at the end of each chapter to help reinforce key points Written mainly for engineering students Organic and Molecular Electronics From Principles to Practice provides an updated introduction to the interdisciplinary subjects of organic electronics and molecular electronics with detailed examples of applications

Guide to Programs National Science Foundation (U.S.), 1994

Relaxation Processes in Molecular Excited States J. Fünfschilling, 2012-12-06 Relaxation phenomena of excited molecular states are abundant in all nature They mediate such key processes as photochemical reactions or even the pathways of ordinary chemical reactions However for a long time the main research in electronic relaxation processes was concerned with anorganic solids in part because of their great technological importance photography semiconductors in part also because these compounds were the workhorses of the solid state physicists In the last 30 years there was a steadily increasing interest in organic molecular systems first in molecular crystals and later in all forms of molecular solids glasses polymers membranes The present volume combines papers on quite different types of relaxation phenomena the type of solid studied the electronic states involved the physical processes responsible for the relaxations are all different Nevertheless after reading this book a more clear and complete picture of the phenomenon relaxation emerges that proves that this volume is more than just a collection of individual articles The volume starts with the paper Spin lattice and spin spin relaxation in photo excited triplet states in molecular crystals by Jan Schmidt Even in these seemingly simple systems of isolated guest molecules in a single crystal host the relaxation phenomena are quite involved and a very thorough investigation is necessary to find the key relaxation processes The end of the article provides a bridge to the following paper it treats interactions of two molecules dimers where resonant interactions become important and lead to new characteristic relaxation processes

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 optoelectrical applications have been arranged in a logical and well thought out order **Wspc Reference On Organic Electronics, The: Organic Semiconductors (In 2 Volumes)** Seth R Marder, Jean-luc Bredas, 2016-06-24 This 2 volume set provides the reader with a basic understanding of the foundational concepts pertaining to the design synthesis and applications of conjugated organic materials used as organic semiconductors in areas including organic photovoltaic devices light emitting diodes field effect transistors spintronics actuation bioelectronics thermoelectrics and nonlinear optics While there are many monographs in these various areas the emphasis here is both on the fundamental chemistry and physics concepts underlying the field of organic semiconductors and on how these concepts drive a broad range of applications This makes the volumes ideal introductory textbooks in the subject They will thus offer great value to both junior and senior scientists working in areas ranging from organic chemistry to condensed matter physics and materials science and engineering Number of Illustrations and Tables 168 b w illus 242 colour illus 13 tables **Grants and Awards for Fiscal Year...** National Science Foundation (U.S.), 1978 On the nature and significance of the commoner organic compounds of plants Paul Haas, Thomas George Hill, 1928 **The Bipolar Theory of Living Processes** George Washington Crile, 1926 Explores the fundamental form of energy the vital force and electrical properties to which the reactions of life can be traced

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