


Organic Semiconductors Proc

**Hisao Ishii, Kazuhiro Kudo, Takashi
Nakayama, Nobuo Ueno**



Organic Semiconductors Proc:

Electronic Processes in Organic Semiconductors Anna Köhler, Heinz Bässler, 2015-06-08 The first advanced textbook to provide a useful introduction in a brief coherent and comprehensive way with a focus on the fundamentals After having read this book students will be prepared to understand any of the many multi authored books available in this field that discuss a particular aspect in more detail and should also benefit from any of the textbooks in photochemistry or spectroscopy that concentrate on a particular mechanism Based on a successful and well proven lecture course given by one of the authors for many years the book is clearly structured into four sections electronic structure of organic semiconductors charged and excited states in organic semiconductors electronic and optical properties of organic semiconductors and fundamentals of organic semiconductor devices Organic Semiconductors and Biopolymers Leonid I.

Boguslavskii, 2013-04-17 In recent years considerable progress has been made in the study of organic semiconductors The main directions of investigation have been determined and substantial results have been achieved in the theoretical treatment of many questions However the range of investigations is so broad that it is impossible to discuss all branches fully in a short monograph In fact the chemist synthesizing systems with conjugated bonds and studying their reactivity the physical chemist studying the catalytic and absorption properties of substances with conjugated bonds the physicist studying the photoelectric and magnetic characteristics of dyes and polynuclear hydrocarbons and the biologist attempting to explain the mechanism of energy transfer in the living cell they are all working in the field of organic semiconductors Consequently in the present book the authors have not attempted to include all sides of the problem of organic semiconductors The monograph considers in detail only those questions which appear to the authors to be most immediate and interesting Other questions are touched on only to the extent necessary to illustrate the main material The book begins with a statement of material which is of the nature of a review The main classes of organic semiconductors are mentioned but the methods for their preparation are not illustrated in detail Somewhat more attention is devoted to the dependence of the electrical characteristics of organic semiconductors on their structure and chemical composition **Organic Semiconductors** Felix

Gutmann, Lawrence E. Lyons, 1981 **Electronic Processes in Organic Electronics** Hisao Ishii, Kazuhiro Kudo, Takashi Nakayama, Nobuo Ueno, 2015-01-26 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 Semiconductor Heterojunctions and Its Application in Organic Light-Emitting Diodes Dongge Ma,Yonghua Chen,2017-09-21 This book systematically introduces the most important aspects of organic semiconductor heterojunctions including the basic concepts and electrical properties It comprehensively discusses the application of organic semiconductor heterojunctions as charge injectors and charge generation layers in organic light emitting diodes OLEDs Semiconductor heterojunctions are the basis for constructing high performance optoelectronic devices In recent decades organic semiconductors have been increasingly used to fabricate heterojunction devices especially in OLEDs and the subject has attracted a great deal of attention and evoked many new phenomena and interpretations in the field This important application is based on the low dielectric constant of organic semiconductors and the weak non covalent electronic interactions between them which means that they easily form accumulation heterojunctions As we know the accumulation type space charge region is highly conductive which is an important property for highly efficient charge generation in their application as charge injector and charge generation layer in OLEDs This book serves as a valuable reference for researchers and as a textbook for graduate students focusing on the study and development of OLED for display and lighting *Organic Electronics* Stephen R. Forrest,2020 This textbook provides a basic understanding of the principles of the field of organic electronics through to their applications in organic devices Useful for the student and practitioner it is both a teaching text and a resource that is a jumping off point for learning working and innovating in this rapidly growing field Provided by publisher *Physics of Organic Semiconductors* Wolfgang Brütting,2006-05-12 Filling the gap in the literature currently available this book presents an overview of our knowledge of the physics behind organic semiconductor devices Contributions from 18 international research groups cover various aspects of this field ranging from the growth of organic layers and crystals their electronic properties at interfaces their photophysics and electrical transport properties to the application of these materials in such different devices as organic field effect transistors photovoltaic cells and organic light emitting diodes From the contents Excitation Dynamics in Organic Semiconductors Organic Field Effect Transistors Spectroscopy of Organic Semiconductors Interfaces between Organic Semiconductors and Metals Analysis and Modeling of Devices Exciton Formation and Energy Transfer in Organic Light Emitting Diodes Deposition and Characterization *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

Electrical Processes in Organic Thin Film Devices Michael C. Petty, 2022-01-24

Electrical Processes in Organic Thin Film Devices A one stop examination of fundamental electrical behaviour in organic electronic device architectures In *Electrical Processes in Organic Thin Film Devices* From Bulk Materials to Nanoscale Architectures distinguished researcher Michael C Petty delivers an in depth treatment of the electrical behaviour of organic electronic devices focused on first principles The author describes the fundamental electrical behaviour of various device architectures and offers an introduction to the physical processes that play a role in the electrical conductivity of organic materials Beginning with band theory the text moves on to address the effects of thin film device architectures and nanostructures The book discusses the applications to devices currently in the marketplace like displays as well as those under development transistors solar cells and memories *Electrical Processes in Organic Thin Film Devices* also describes emerging organic thin film architectures and explores the potential for single molecule electronics and biologically inspired devices Finally the book also includes A detailed introduction to electronic and vibrational states in organic solids including classical band theory disordered semiconductors and lattice vibrations Comprehensive explorations of electrical conductivity including electronic and ionic processes carrier drift diffusion the Boltzmann Transport Equation excess carriers recombination doping and superconductivity An overview of important electro active organic materials like molecular crystals charge transfer complexes conductive polymers carbon nanotubes and graphene Practical considerations of defects and nanoscale phenomena including transport processes in low dimensional systems surfaces and interface states In depth examinations of metal contacts including ohmic contacts the Schottky Barrier and metal molecule contacts A systematic guide to the operating principles of metal insulator semiconductor structures and the field effect A set of problems with solutions on line for each chapter of the book Perfect for electronics developers and researchers in both industry and academia who study and work with molecular and nanoscale electronics *Electrical Processes in Organic Thin Film Devices* also deserves a place in the libraries of undergraduate and postgraduate students in courses on molecular electronics organic electronics and plastic electronics

Organic Semiconductor Lasers and Tailored Nanostructures for Raman

Spectroscopy Liu, Xin, 2015-06-19 This work presents the application of organic semiconductor distributed feedback laser as free space excitation source in Raman spectroscopy Surface enhanced Raman scattering effect is exploited to improve the detection sensitivity The SERS condition is achieved by using substrates consisting of gold coated polymeric nanopillar arrays The organic laser excited SERS measurements are applied to verify the concentration variation of biomolecule adenosine in aqueous solutions

Elementary Processes in Organic Photovoltaics Karl Leo, 2016-12-20 This volume presents the results of a multi year research programme funded by the Deutsche Forschungsgemeinschaft German Research Council which explains how organic solar cells work In this new promising photovoltaic technology carbon based materials are deposited by low cost methods onto flexible substrates thus allowing devices which open completely new applications like transparent coatings for building solar cells integrated into clothing or packages and many more The investigation of organic solar cells is an interdisciplinary topic covering physics chemistry and engineering The different chapters address topics ranging from the synthesis of new organic materials to the characterization of the elementary processes such as exciton transport and separation and the principles of highly efficient device design div Functional Polymer Films, 2 Volume Set

Wolfgang Knoll, Rigoberto C. Advincula, 2013-02-12 Very thin film materials have emerged as a highly interesting and useful quasi 2D state functionality They have given rise to numerous applications ranging from protective and smart coatings to electronics sensors and display technology as well as serving biological analytical and medical purposes The tailoring of polymer film properties and functions has become a major research field As opposed to the traditional treatise on polymer and resin based coatings this one stop reference is the first to give readers a comprehensive view of the latest macromolecular and supramolecular film based nanotechnology Bringing together all the important facets and state of the art research the two well structured volumes cover film assembly and deposition functionality and patterning and analysis and characterization The result is an in depth understanding of the phenomena ordering scale effects fabrication and analysis of polymer ultrathin films This book will be a valuable addition for Materials Scientists Polymer Chemists Surface Scientists Bioengineers Coatings Specialists Chemical Engineers and Scientists working in this important research field and industry Introduction to Organic Electronic Devices

Guangye Zhang, Chen Xie, Peng You, Shunpu Li, 2022-10-13 This book comprehensively describes organic electronic devices developed in the past decades It not only covers the mainstream devices including organic light emitting diodes OLEDs organic photovoltaics OPVs and organic thin film transistors OTFTs but also includes devices of recent interest such as organic immune transistors organic photocatalysis devices and thermoelectrical devices The book starts from the introduction of basic theory of organic semiconductor materials and devices which acquaints the readers with the concepts of each type of device described in the following chapters It also discusses the working principles device layout and fabrication process of these devices The book is intended for undergraduate and postgraduate students who are interested in organic electronics researchers engineers working in the field of organic

electronic devices systems **Physics of Organic Semiconductors** Wolfgang Brütting, Chihaya Adachi, 2012-10-02 The field of organic electronics has seen a steady growth over the last 15 years At the same time our scientific understanding of how to achieve optimum device performance has grown and this book gives an overview of our present day knowledge of the physics behind organic semiconductor devices Based on the very successful first edition the editors have invited top scientists from the US Japan and Europe to include the developments from recent years covering such fundamental issues as growth and characterization of thin films of organic semiconductors charge transport and photophysical properties of the materials as well as their electronic structure at interfaces and analysis and modeling of devices like organic light emitting diodes or organic lasers The result is an overview of the field for both readers with basic knowledge and for an application oriented audience It thus bridges the gap between textbook knowledge largely based on crystalline molecular solids and those books focusing more on device applications **Organic Electronics 1** Thien-Phap Nguyen, 2021-05-18 Due to their special properties organic semiconductors enable the development of large area low cost devices paving the way for flexible and nomadic applications that advantageously replace those made with traditional semiconductors This book describes the properties and deposition methods of organic semiconductors transparent conductive materials or metals which are used in the fabrication of organic devices The physical processes optical electrical and interface that control the mechanisms in the formation and transport of the charge carriers of the materials are studied and explained in detail Organic Electronics 1 introduces the fundamental and applied aspects of the field of organic electronics It is intended for researchers and students in university programs or engineering schools specializing in electronics energy and materials **OJI International Seminar on Organic Semiconductors** H. Inokuchi, 1989 **Electronic Structure of Organic Semiconductors** Luís Alcácer, 2018-12-07 Written in the perspective of an experimental chemist this book puts together some fundamentals from chemistry solid state physics and quantum chemistry to help with understanding and predicting the electronic and optical properties of organic semiconductors both polymers and small molecules The text is intended to assist graduate students and researchers in the field of organic electronics to use theory to design more efficient materials for organic electronic devices such as organic solar cells light emitting diodes and field effect transistors After addressing some basic topics in solid state physics a comprehensive introduction to molecular orbitals and band theory leads to a description of computational methods based on Hartree Fock and density functional theory DFT for predicting geometry conformations frontier levels and energy band structures Topological defects and transport and optical properties are then addressed and one of the most commonly used transparent conducting polymers PEDOT PSS is described in some detail as a case study [Organic Semiconductors in Sensor Applications](#) Daniel A. Bernards, Róisín M. Owens, George G. Malliaras, 2008-02-22 Organic semiconductors offer unique characteristics which have prompted the application of organic semiconductors and their devices in physical chemical and biological sensors This book covers this emerging field by discussing both optically and electrically based sensor

concepts Novel transducers based on organic light emitting diodes and organic thin film transistors as well as systems on a chip architectures are presented Functionalization techniques are also outlined **Semiconductor Physics** Karl W.

Böer,Udo W. Pohl,2023-02-02 This handbook gives a complete and detailed survey of the field of semiconductor physics It addresses every fundamental principle the most important research topics and results as well as conventional and emerging new areas of application Additionally it provides all essential reference material on crystalline bulk low dimensional and amorphous semiconductors including valuable data on their optical transport and dynamic properties This updated and extended second edition includes essential coverage of rapidly advancing areas in semiconductor physics such as topological insulators quantum optics magnetic nanostructures and spintronic systems Richly illustrated and authored by a duo of internationally acclaimed experts in solar energy and semiconductor physics this handbook delivers in depth treatment of the field reflecting a combined experience spanning several decades as both researchers and educators Offering a unique perspective on many issues Semiconductor Physics is an invaluable reference for physicists materials scientists and engineers throughout academia and industry **Advances in Lasers and Electro Optics** Nelson Costa,Adolfo

Cartaxo,2010-04-01 Lasers and electro optics is a field of research leading to constant breakthroughs Indeed tremendous advances have occurred in optical components and systems since the invention of laser in the late 50s with applications in almost every imaginable field of science including control astronomy medicine communications measurements etc If we focus on lasers for example we find applications in quite different areas We find lasers for instance in industry emitting power level of several tens of kilowatts for welding and cutting in medical applications emitting power levels from few milliwatt to tens of Watt for various types of surgeries and in optical fibre telecommunication systems emitting power levels of the order of one milliwatt This book is divided in four sections The book presents several physical effects and properties of materials used in lasers and electro optics in the first chapter and in the three remaining chapters applications of lasers and electro optics in three different areas are presented

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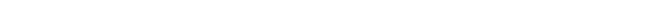
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