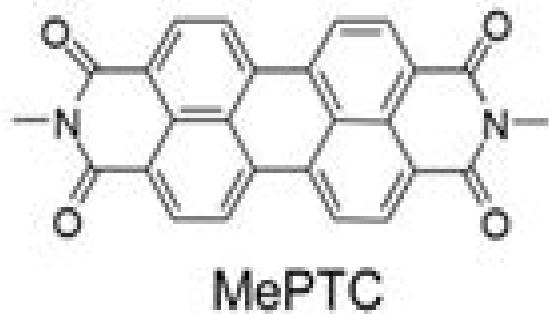
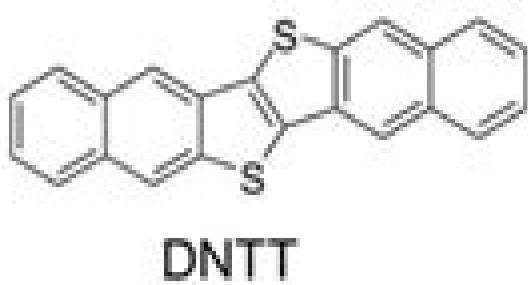
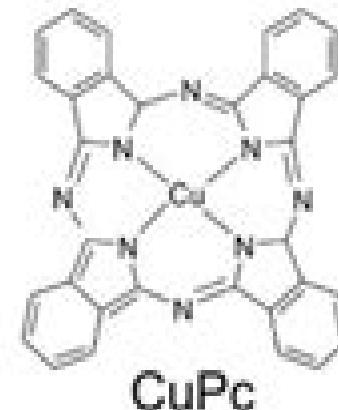
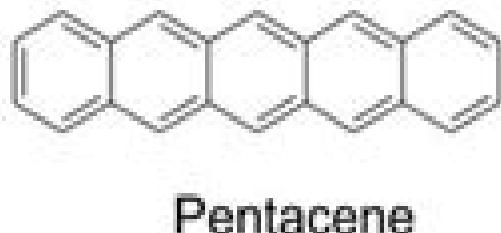


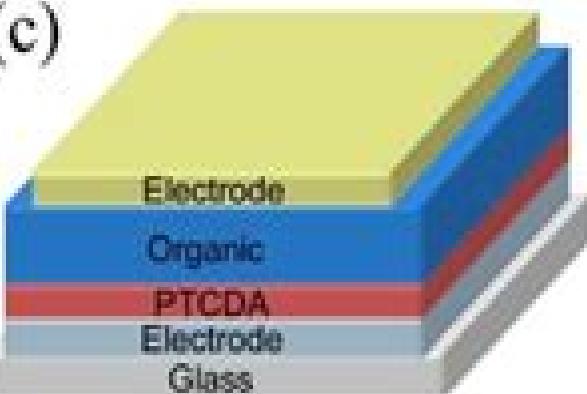
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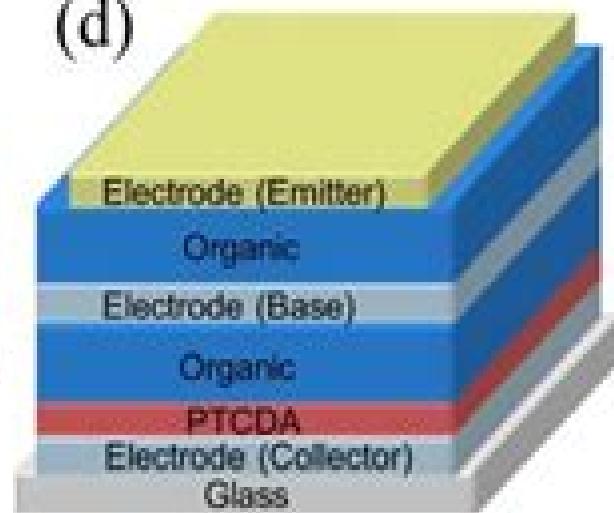
(b)



(c)



(d)



# Organic Semiconductors

**Hiroyoshi Naito**

## **Organic Semiconductors:**

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**

**Semiconductors for Optoelectronics** Hiroyoshi Naito, 2021-08-02 Comprehensive coverage of organic electronics including fundamental theory basic properties characterization methods device physics and future trends Organic semiconductor materials have vast commercial potential for a wide range of applications from self emitting OLED displays and solid state lighting to plastic electronics and organic solar cells As research in organic optoelectronic devices continues to expand at an unprecedented rate organic semiconductors are being applied to flexible displays biosensors and other cost effective green devices in ways not possible with conventional inorganic semiconductors **Organic Semiconductors for Optoelectronics** is an up to date review of the both the fundamental theory and latest research and development advances in organic semiconductors Featuring contributions from an international team of experts this comprehensive volume covers basic properties of organic semiconductors characterization techniques device physics and future trends in organic device development Detailed chapters provide key information on the device physics of organic field effect transistors organic light emitting diodes organic solar cells organic photosensors and more This authoritative resource Provides a clear understanding of the optoelectronic properties of organic semiconductors and their influence to overall device performance Explains the theories behind relevant mechanisms in organic semiconducting materials and in organic devices Discusses current and future trends and challenges in the development of organic optoelectronic devices Reviews electronic properties device mechanisms and characterization techniques of organic semiconducting materials Covers theoretical concepts of optical properties of organic semiconductors including fluorescent phosphorescent and thermally assisted delayed fluorescent emitters An important new addition to the Wiley Series in Materials for Electronic Optoelectronic Applications **Organic Semiconductors for Optoelectronics** bridges the gap between advanced books and undergraduate textbooks on semiconductor physics and solid state physics It is essential reading for academic researchers graduate students and industry professionals involved in organic electronics materials science thin film devices and optoelectronics research and development

**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 Electronics** Franky So,2009-11-24 In the near future organic semiconductors may be used in a variety of products including flat screen TVs e book readers and third generation organic photovoltaics applications to name just a few While organic electronics has received increased attention in scientific journals those working in this burgeoning field require more in depth cover **Self-Organized Organic Semiconductors** Quan Li,2011-03-03 This book focuses on the exciting topic on self organized organic semiconductors from materials to device applications It offers up to date and accessible coverage of self organized semiconductors for organic chemistry polymer science liquid crystals materials science material engineering electrical engineering chemical engineering optics optic electronics nanotechnology and semiconductors Chapters cover chemistry physics processing and characterization The applications include photovoltaics light emitting diodes LEDs and transistors **Organic Semiconductors** Dharani Sabba,2017-11 This book is a compilation of research articles related to the application of organic semiconductor materials in the field of electronics such as field effect transistors light emitting diodes and in harvesting solar energy via solar cells Chapter 1 acquaints the reader with the progress made so far and future potential in the field of organic semiconductors highlighting their employment as organic light emitting diodes OLEDs for flexible electronics and lighting as organic field effect transistors OFETs and as organic photovoltaics In chapter 2 a novel technology of utilizing aluminum laminations as moisture barriers against ambient aggressors in order to enhance device performance especially in organic solar cells and OLEDs has been demonstrated Chapters 3 5 focus on the fabrication routes of organic electronics such as OFETs and organic solar cells The further chapters of this book are broadly classified into three categories addressing the three key applications of these materials OFETs organic solar cells and OLEDs In chapters 6 13 the various materials their synthesis properties processing parameters and their application in OFETs has been illustrated Application of OFETs in detecting blood gases such as ammonia has been shown in chapter 13 Chapters 14 focuses on critical light instability in CB DIO processed PBDTTT EFT PC71BM organic photovoltaic devices I strongly believe that this book will help students engineers and researchers working in the field of electrical engineering chemistry physics and material science to build upon their existing knowledge The collection of articles and review articles is upto date and the reader can keep themselves abreast with the latest developments in the field of organic semiconductors through this book

**Self-Organized Organic Semiconductors** Quan Li,2011-04-26 This book focuses on the exciting topic on self organized organic semiconductors from materials to device applications It offers up to date and accessible coverage of self organized semiconductors for organic chemistry polymer science liquid crystals materials science material engineering electrical engineering chemical engineering optics optic electronics nanotechnology and semiconductors Chapters cover chemistry physics processing and characterization The applications include photovoltaics light emitting diodes LEDs and transistors

**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 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

### **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 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

### **Defects in Organic Semiconductors and Devices**

Thien-Phap Nguyen,2023-07-27 Defects play a key role in the physical properties of semiconductors and devices and their identification is essential in assessing the reliability of electronic devices Defects in Organic Semiconductors and Devices introduces the fundamental aspects of defects in organic semiconductors and devices in relation to the structure of materials and architecture of electronic components It covers the topics of defect formation and evolution defect measurement techniques and their adaption to organic devices the effects of defects on the physical properties of materials and their effects on the performance and lifetime of organic devices Identifying defects and determining their characteristics in the structure of organic devices such as OLEDs OFETs and OPVs make it possible to better understand degradation processes and develop solutions to improve the reliability of such devices This book is intended for researchers and students in university programs or engineering schools who are specializing in electronics energy and materials

*Introduction to Organic Semiconductor Heterojunctions* Donghang Yan,Haibo Wang,Baoxun Du,2010-11-15 It is well known that most important electronic devices use Schottky junctions and heterojunctions Unfortunately there is not an advanced book introducing heterojunctions systematically Introduction to Organic Semiconductor Heterojunctions fills the gap In this book the authors provide a comprehensive discussion and systematic introduction on the state of the art technologies as well as application of organic semiconductor heterojunctions First book to systematically introduce organic heterojunctions Arms readers with theoretical experimental and applied aspects of organic heterojunctions The Chinese edition of the book is part of the Chinese Academy of Sciences Distinguished Young Scholar Scientific Book Series Introduction to Organic Semiconductor Heterojunctions is an ideal and valued reference for researchers and graduate students focusing on organic thin film devices like organic light emitting diodes OLEDs organic photovoltaic OPV cells and organic field effect transistors OFETs Instructors can use the book as a supplementary text for a semiconductor physics or

organic electronics course giving students a better feel for the application of organic thin film devices

**Semiconductors** Felix Gutmann, Lawrence E. Lyons, 1967

This up to date reference for students and researchers in the field is the first systematic treatment on the property measurements of organic semiconductor materials. Following an introduction the book goes on to treat the structural analysis of thin films and spectroscopy of electronic states. Subsequent sections deal with optical spectroscopy and charge transport. An invaluable source for understanding handling and applying this key type of material for physicists, materials scientists, graduate students and analytical laboratories.

**Investigating the Nucleation, Growth, and Energy Levels of Organic Semiconductors for High Performance Plastic Electronics** Ajay Virkar, 2011-09-29 This thesis details the significant progress made in improving the performance of organic transistors and the network conductivity of carbon nanotubes. The first section investigates organic semiconductor nucleation and growth on the most common dielectric surface used to fabricate organic thin film transistors. The nucleation and growth of the semiconductor was determined to be a critical factor affecting the device performance. Excellent dielectric modification layers which promote desirable semiconductor growth leading to high conductivity were identified and a technologically relevant deposition technique was developed to fabricate high quality dielectric modification layers over large areas. This may represent an important step towards the realization of large area organic circuitry. In the final section lessons learned from studying organic semiconductor nucleation and growth were utilized to improve the conductivity of carbon nanotube networks. Selective nucleation of materials at the junctions between nanotubes in the network significantly decreased the network's sheet resistance. The resulting networks may be promising candidates for transparent electrodes with a variety of optoelectronic applications.

**Organic Electronics II** Hagen Klauk, 2012-04-09 Like its predecessor this book is devoted to the materials manufacturing and applications aspects of organic thin film transistors. Once again authored by the most renowned experts from this fascinating and fast moving area of research it offers a joint perspective both broad and in depth on the latest developments in the areas of materials chemistry, transport physics, materials characterization, manufacturing technology and circuit integration of organic transistors. With its many figures and detailed index this book once again also serves as a ready reference.

**Energy and Charge Transfer in Organic Semiconductors** Kohzoh Masuda, 2012-12-06 Great progress has been made in the field of ordinary semiconductor physics and associated technologies. For the time being if we could use new materials such as organic semiconductors progress in electronics could be accelerated. Characteristics of organic semiconductors that are superior to others are: i) high photo conductivity under irradiation along with low leakage current in the dark; ii) high sensitivity of the conductivity to various gases and to pressure; iii) possibility of using them in the amorphous state; iv) possibility of making devices of extremely small size; v) large variety of the materials which makes suitable choice of material component easy. A possible future development is a highly conductive material which could be used for electric

**Organic**

power transmission and which might help solve some of the problems posed by transmission losses The U S Japan Seminar on Energy and Charge Transfer in Organic Semiconductors was held in Osaka Japan 6 9 August 1973 Completed results were summarized and the direction for the future was discussed Information was exchanged quite freely and actively in a pleasant atmosphere Many of the papers presented at the seminar are published here but unfortunately a few could not be included It would give us great pleasure if this seminar could be one step in the further development of the research in this field

**Printed Organic and Molecular Electronics** Daniel Gamota,2004-01-31 During the 1980s functional organic devices were born For nearly twenty years organic semiconductor technology has largely been the domain of traditional players within the microelectronics world involving semiconductor companies research laboratories and government organizations The print industry a well established community who shaped much of the Second Millennium has joined the organic electronics quest during these first few years of the Third Millennium This seemingly unlikely marriage of two worlds the microelectronics and graphic print industries shows incredible promise to spawn an entirely new method of electronics manufacture and ultimately whole new industries The enhancements of organic semiconductor materials seen during the late 1990s and early 2000s have resulted in the fabrication of organic electronics in laboratory environments with impressive performance Since the early 2000s scientists have succeeded in applying printing related technologies to create organic field effect transistors OFETs with micron sized features This has led to a widespread vision of developing printed electronic products especially displays sensors and simple wireless products such as RFID tags The development of high volume manufacturing platforms based on traditional graphic arts printing platforms naturally addresses demands on product cost and throughput Moreover graphics art printing technologies allow one to fabricate organic circuits directly onto low cost sheet or roll substrates including plastics and paper Printed Organic And Molecular Electronics was compiled to create a reference that included existing knowledge from the most renowned industry academic and government experts in the fields of organic semiconductor technology graphic arts printing micro contact printing and molecular electronics It is divided into sections that consist of the most critical topics required for one to develop a strong understanding of the states of these technologies and the paths for taking them from R D to the hands of consumers on a massive scale As such the book provides both theory as well as technology development results and trends

**Organic Electronics** Hagen Klauk,2006-12-13 Edited and written by the leading researchers and engineers from such companies as Philips 3M Xerox Infineon PlasticLogic Eastman Kodak Dupont AIXTRON and Hueck Folien this book presents unrivalled and undiluted expertise from those who know best how to assess the risks opportunities and where this technology is really heading As such this practical approach complements the more scientific and fundamentals oriented literature on the market by providing readers with a first hand insight into industrial activities to commercialize organic electronics Following an introduction to the topic including the history motivation benefits and potentials it reviews recent advances and covers all three important facets of organic

electronics the chemical compounds and materials manufacturing techniques and the resulting devices together with their current applications

## Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Organic Semiconductors**

In a world inundated with displays and the cacophony of instantaneous interaction, the profound power and emotional resonance of verbal art usually fade into obscurity, eclipsed by the regular onslaught of noise and distractions. Yet, situated within the musical pages of **Organic Semiconductors**, a interesting perform of fictional splendor that impulses with fresh feelings, lies an wonderful journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, that magical opus courses viewers on an emotional odyssey, lightly exposing the latent possible and profound impact stuck within the complicated web of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is main styles, dissect their captivating writing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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## **Organic Semiconductors Introduction**

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