



ORGANIC ELECTRONICS

Materials, Processing,
Devices and Applications

Edited by **Franky So**



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Organic Electronics Materials And Devices

Professor Peter Stallinga



Organic Electronics Materials And Devices:

Organic Electronics Materials and Devices Shuichiro Ogawa, 2024-01-24 This book is an introductory text for graduate students researchers in industries and those who are just beginning to work on organic electronics materials devices and their applications The book includes mainly fundamental principles and theories for understanding organic electronics materials and devices but also provides information about state of the art technologies applications and future prospects These topics encompass physics for organic transistors structure control technologies of polymer semiconductors nanomaterials electronics organic solar cells organic electroluminescence and dynamics for excitation among others In this second edition the topics that have had particular progress in the field of organic electronics over the past seven years were added For example Thermally Activated Delayed Fluorescence TADF technology for organic LED the development of perovskite materials light emitting materials using nanomaterials and the development of skin sensors and wearable embedded devices The recent scientific understanding of organic electronics is also introduced This book will help readers to be able to contribute to society with the technologies and science of organic electronics materials in the future

Organic Electronics Materials and Devices Shuichiro Ogawa, 2015 This book is an introductory text for graduate students researchers in industries and those who are just beginning to work on organic electronics materials devices and their applications The book includes mainly fundamental principles and theories for understanding organic electronics materials and devices but also provides information about state of the art technologies applications and future prospects These topics encompass physics for organic transistors structure control technologies of polymer semiconductors nanomaterials electronics organic solar cells organic electroluminescence liquid semiconductors and dynamics for excitation among others This book will help researchers to be able to contribute to society with the technologies and science of organic electronics materials in the future

Solution-Processable Components for Organic Electronic Devices Beata Luszczynska, Krzysztof Matyjaszewski, Jacek Ulanski, 2019-06-07 Provides first hand insights into advanced fabrication techniques for solution processable organic electronics materials and devices The field of printable organic electronics has emerged as a technology which plays a major role in materials science research and development Printable organic electronics soon compete with and for specific applications can even outpace conventional semiconductor devices in terms of performance cost and versatility Printing techniques allow for large scale fabrication of organic electronic components and functional devices for use as wearable electronics health care sensors Internet of Things monitoring of environment pollution and many others yet to be conceived applications The first part of *Solution Processable Components for Organic Electronic Devices* covers the synthesis of soluble conjugated polymers solution processable nanoparticles of inorganic semiconductors high k nanoparticles by means of controlled radical polymerization advanced blending techniques yielding novel materials with extraordinary properties The book also discusses photogeneration of charge carriers in nanostructured bulk heterojunctions and charge carrier transport

in multicomponent materials such as composites and nanocomposites as well as photovoltaic devices modelling The second part of the book is devoted to organic electronic devices such as field effect transistors light emitting diodes photovoltaics photodiodes and electronic memory devices which can be produced by solution based methods including printing and roll to roll manufacturing The book provides in depth knowledge for experienced researchers and for those entering the field It comprises 12 chapters focused on novel organic electronics components synthesis and solution based processing techniques advanced analysis of mechanisms governing charge carrier generation and transport in organic semiconductors and devices fabrication techniques and characterization methods of organic electronic devices Providing coverage of the state of the art of organic electronics *Solution Processable Components for Organic Electronic Devices* is an excellent book for materials scientists applied physicists engineering scientists and those working in the electronics industry *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

Iontronics Janelle Leger, Magnus Berggren, Sue Carter, 2016-04-19 With contributions from a community of experts the book focuses on the use of ionic functions to define the principle of operation in polymer devices It begins by reviewing the scientific understanding and important scientific discoveries made on the electrochemistry of conjugated polymers It examines the known effects of ion incorporation including the theory and modulation of electrochemistry in polymer films and it explores the coupling of electronic and ionic transport in polymer films Electrical Characterization of Organic Electronic Materials and Devices Professor Peter Stallinga, 2009-11-16 Think like an electron Organic electronic materials have many applications and potential in low cost electronics such as electronic barcodes and in light emitting devices due to their easily tailored properties While the chemical aspects and characterization have been widely studied characterization of the electrical properties has been neglected and classic textbook modeling has been applied This is most striking in the analysis of thin film transistors TFTs using thick bulk transistor MOS FET descriptions At first glance the TFTs appear to behave as regular MOS FETs However upon closer examination it is clear that TFTs are unique and merit their own model Understanding and interpreting measurements of organic devices which are often seen as black box measurements is critical to developing better devices and this therefore has to be done with care *Electrical Characterization of Organic Electronic Materials and Devices* Gives new insights into the electronic properties and measurement techniques for low mobility electronic devices Characterizes the thin film transistor using its own model Links the phenomena seen in different device structures and different measurement techniques Presents clearly both how to perform electrical measurements of organic and low mobility materials and how to extract important information from these measurements Provides a much needed theoretical foundation for organic electronics Nanoelectronics: Physics, Materials and Devices Angsuman

Sarkar, Chandan Kumar Sarkar, Arpan Deyasi, Debashis De, Arezki Benfdila, 2023-01-03 Approx 528 pages Approx 528 pages

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

Polymers in Organic Electronics Sulaiman Khalifeh, 2020-04-01 Polymers in Organic Electronics Polymer Selection for Electronic Mechatronic and Optoelectronic Systems provides readers with vital data guidelines and techniques for optimally designing organic electronic systems using novel polymers The book classifies polymer families types complexes composites nanocomposites compounds and small molecules while also providing an introduction to the fundamental principles of polymers and electronics Features information on concepts and optimized types of electronics and a classification system of electronic polymers including piezoelectric and pyroelectric optoelectronic mechatronic organic electronic complexes and more The book is designed to help readers select the optimized material for structuring their organic electronic system Chapters discuss the most common properties of electronic polymers methods of optimization and polymeric structured printed circuit boards The polymeric structures of optoelectronics and photonics are covered and the book concludes with a chapter emphasizing the importance of polymeric structures for packaging of electronic devices Provides key identifying details on a range of polymers micro polymers nano polymers resins hydrocarbons and oligomers Covers the most common electrical electronic and optical properties of electronic polymers Describes the underlying theories on the mechanics of polymer conductivity Discusses polymeric structured printed circuit boards including their rapid prototyping and optimizing their polymeric structures Shows optimization methods for both polymeric structures of organic active electronic components and organic passive electronic components

Handbook of Organic Electronics and Photonics: Electronic materials and devices Hari Singh Nalwa, 2008-01-01 According to Nalwa founder and editor in chief of the Journal of Nanoscience and Nanotechnology organic materials and polymers offer a range of advantages in electronic and photonic applications including a higher degree of tailoring and versatility in the manipulation of their physical properties ease of modification and functionalization ease of processing and fabrication low cost mass production environmental stability and biocompatibility He presents a three volume handbook covering the synthesis and electrical properties of these materials as well as a range of applications The first volume on electronic materials and devices

includes 13 chapters discussing such topics as synthetic approaches to band gap control in conjugated polymeric materials synthesis characteristics and applications of conducting polymer nanotubes nanowires and nanocomposites charge transport and morphology in conjugated polymers nano microfabrication techniques for organic electronics and photonics self assembled supramolecular structures for organic electronics and photonics organic thin film transistor fundamentals and applications electropolymers for mechatronics and artificial muscles and biologically inspired large contraction conducting polymer actuators The second volume switches focus towards photonic materials and devices and includes 12 chapters discussing such topics as organic nonlinear optical crystals and single crystalline thin films organic semiconducting thin films organic random lasers nonlinear optical properties of organometallic and metalloorganic compounds nonlinear optical responses and photoinduced electron transfer process in phthalocyanines and related compounds liquid crystal diffractive optical elements magnetoresistance and spin effects in organic light emitting diodes and photoinduced transfer between electron donors and fullerenes as unique electron acceptors The final volume is concerned with devices and includes 10 chapters on such topics single molecule transistors nanostructured arrays as suitable materials for batteries sensors and electrochromic devices organic field effect transistors flexible display applications in organic electronics and photonics physics and technology and organic light emitting diodes organic and polymeric solar cells luminescent lanthanide complexes for advanced photonic applications and DNA based biosensors

Makromolekulare Chemie Bernd Tieke, 2014-08-01 Die

Makromolekulare Chemie Polymerchemie beschreibt sich mit der Synthese Isolierung Charakterisierung und Modifizierung von gro ßen Molekülen Polymere Diese Moleküle können aus bis zu Hunderttausenden gleicher oder unterschiedlicher Bausteine Monomere bestehen und sind meistens als Ketten oder Netzwerke angeordnet Neben den Biopolymeren z B Zellulose Enzyme DNS sind vor allem die synthetischen Polymere Polyethylen Polypropylen PVC Polystyrol Styropor Nylon oder Teflon von gro ßem Interesse Die dritte Auflage der Makromolekularen Chemie wurde komplett bearbeitet und aktualisiert wobei das bewährte Konzept die Synthese Charakterisierung Eigenschaften und Reaktionen von Polymeren klar und anschaulich darzustellen beibehalten wurde Es gibt neue Kapitel zu aktuellen Trends in der Polymerchemie z B Polymerblends Polymere durch palladiumkatalysierte Kreuzkupplung enzymatische Polymerisation Polymere für die Optoelektronik ferroelektrische Polymere und MALDI TOF Massenspektrometrie zur Charakterisierung von Polymeren Außerdem wurde jedes Kapitel um eine kurze Zusammenfassung der wichtigsten Inhalte erweitert Das Buch ist unentbehrlich für Studenten der Chemie und Materialwissenschaften im Bachelor und Masterstudiengang die die entsprechende Vorlesung nachbereiten bzw sich auf die Prüfung vorbereiten wollen aber auch für Polymer Chemiker die sich schnell und erfolgreich in das Gebiet einarbeiten wollen

Organic Electronics ,2007 *Advanced Materials and Techniques for Biosensors and*

Bioanalytical Applications Pranab Goswami, 2020-11-01 Bioanalytical science and its technological subdomain biosensors are ever evolving subjects striving for rapid improvement in terms of performance and expanding the target range to meet the

vast societal and market demands The key performance factors for a biosensor that drive the research are selectivity sensitivity response time accuracy and reproducibility with additional requirements of its portability and inexpensive nature These performance factors are largely governed by the materials and techniques being used in these bioanalytical platforms The selection of materials to meet these requirements is critical as their interaction or involvement with the biological recognition elements should initiate or improve these performance factors The technique discussed primarily applies to transducers involved in converting a biochemical signal to optical or electrical signals Over the years the emergence of novel materials and techniques has drastically improved the performance of these bioanalytical systems enabling them to expand their analytical horizon These advanced materials and techniques are central to modern bioanalytical and biosensor research Advanced Materials and Techniques for Biosensors and Bioanalytical Applications provides a comprehensive review of the subject including a knowledge platform for both academics and researchers Considering biosensors as a central theme to this book an outline on this subject with background principles has been included with a scope of extending the utility of the book to coursework in graduate and postgraduate schools Features Basic principles on different classes of biosensors recent advances and applications Smart materials for biosensors and other rapid portable detection devices Metal nanoparticles and nanocrystals for analytical applications Carbon based nanoparticles and quantum dots for sensing applications Nanozymes as potential catalysts for sensing applications Bioelectrochemiluminescence and photoelectrochemical based biosensors Paper electronics and paper based biosensors Microbial biosensors artificial intelligence genetic engineering and synthetic biology Biofuel cells as a signal transduction platform FET based biosensors including ISFET and BioFET This book serves as a reference for scientific investigators and a textbook for a graduate level course in biosensors and advanced bioanalytical techniques

Physical and Chemical Aspects of Organic Electronics Christof Wöll, 2009-04-22 Organic molecules are currently being investigated with regard to their application as active components in semiconductor devices Whereas devices containing organic molecules for the generation of light organic light emitting diodes OLED have already reached the market they e g display information on mobile phones transistors where organic molecules are used to actively control currents and voltages are still in the development stage In this book the principle problems related to using organic materials as semiconductors and to construct functioning devices will be addressed A particular emphasis will be put on the difference between inorganic semiconductors such as Si Ge and GaAs and organic semiconductors OSC The special properties of such soft matter require particular approaches for processing characterization and device implementation which are quite different from the approach used for conventional semiconductors

Flexible Electronics--materials and Device Technology Norbert Fruehauf, 2003

Organic Electronics - From Fundamentals to Applications Arun Dev Dhar Dwivedi, Debashish Maji, Parthsarathi Chakrabarti, 2025-10-22 Organic Electronics From Fundamentals to Applications offers a comprehensive exploration of the rapidly evolving field of organic electronic materials and devices Bridging the gap between fundamental

science and cutting edge technological applications this edited volume brings together contributions from leading researchers and experts across academia and industry The book begins with a solid foundation in chemistry physics and materials science underlying organic semiconductors and conductive polymers It then transitions to the design and fabrication of devices including organic light emitting diodes OLEDs organic photovoltaics OPVs organic field effect transistors OFETs and sensors Advanced chapters delve into emerging applications including wearable electronics flexible displays biomedical devices and sustainable energy systems This volume is tailored for researchers graduate students and professionals in materials science electrical and electronics engineering applied physics and nanotechnology The clear and accessible presentation combined with in depth technical insights makes it equally valuable for newcomers and seasoned practitioners in the field By showcasing the latest developments and future directions Organic Electronics From Fundamentals to Applications serves as both a foundational resource and a catalyst for innovation in the interdisciplinary world of organic electronics Whether you aim to understand the basics or seek to advance the frontier of organic device technology this book will equip you with the knowledge and inspiration to explore new possibilities in flexible lightweight and sustainable electronics

Flexible Electronics--materials and Device Technology, 2004 *Handbook of Flexible Organic Electronics* Stergios Logothetidis, 2014-12-03 Organic flexible electronics represent a highly promising technology that will provide increased functionality and the potential to meet future challenges of scalability flexibility low power consumption light weight and reduced cost They will find new applications because they can be used with curved surfaces and incorporated in to a number of products that could not support traditional electronics The book covers device physics processing and manufacturing technologies circuits and packaging metrology and diagnostic tools architectures and systems engineering Part one covers the production properties and characterisation of flexible organic materials and part two looks at applications for flexible organic devices Reviews the properties and production of various flexible organic materials Describes the integration technologies of flexible organic electronics and their manufacturing methods Looks at the application of flexible organic materials in smart integrated systems and circuits chemical sensors microfluidic devices organic non volatile memory devices and printed batteries and other power storage devices

Concepts and Design of Materials Nanoarchitectonics Omar Azzaroni, Katsuhiko Ariga, 2022-02-09 The concept of nanoarchitectonics was introduced to describe the correct manipulation of nanoscale materials in the creation of nano devices and applications Nanoarchitectonics has begun to spread into many fields including nanostructured materials synthesis supramolecular assembly nanoscale structural fabrications materials hybridizations materials and structures for energy and environmental sciences device and physical application and bio and medical applications Following on from the 2012 title Manipulation of Nanoscale Materials Concepts and Design of Materials Nanoarchitectonics covers the introductory features underlying the field presenting a unifying overview of the theoretical aspects and emerging applications that are changing the capability to

understand and design advanced functional materials Edited by pioneers of the field this book will appeal to researchers working in nanoscience materials science supramolecular chemistry physical chemistry and organic chemistry as well as graduate students in these areas Introduction to Organic Electronic and Optoelectronic Materials and Devices
Sam-Shajing Sun,Larry R. Dalton,2008-05-29 Reflecting rapid growth in research and development on organic polymeric electronic and photonic materials and devices Introduction to Organic Electronic and Optoelectronic Materials and Devices provides comprehensive coverage of the state of the art in an accessible format The book presents fundamentals principles and mechanisms complem

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