



ORGANIC ELECTRONICS

Materials, Processing,
Devices and Applications

Edited by **Franky So**



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Organic Electronics Materials And Devices

**Beata Luszczyńska, Krzysztof
Matyjaszewski, Jacek Ulanski**



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

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

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

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

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.

Electrical Characterization of Organic Electronic Materials and Devices Professor Peter Stallinga, 2009-10-08

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. [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 mechnronics 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 *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 Introduction to Organic Electronic and Optoelectronic Materials and Devices Sam-Shajing Sun, Larry R. Dalton, 2016-10-03 This book covers the

combined subjects of organic electronic and optoelectronic materials devices It is designed for classroom instruction at the senior college level Highlighting emerging organic and polymeric optoelectronic materials and devices it presents the fundamentals principle mechanisms representative examples and key data Organic Electronics ,2007 Introduction to Organic Electronic and Optoelectronic Materials and Devices, Second Edition Sam-Shajing Sun,Larry R. Dalton,2015-12-15 This book covers the combined subjects of organic electronic and optoelectronic materials devices It is designed for classroom instruction at the senior college level Highlighting emerging organic and polymeric optoelectronic materials and devices it presents the fundamentals principle mechanisms representative examples and key data **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 **Organic Electronics 1** Thien-Phap Nguyen,2021-03-12 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 **Organic Electronics 2** Thien-Phap Nguyen,2021-09-15 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 In this second volume we study the main applications of organic semiconductors such as organic light emitting diodes OLEDs solar cells OPVs and organic field effect transistors OFETs The commercialization of these new devices is then discussed within the Brabec triangle framework in which yield stability and production costs are the key factors We also address the environmental impact of organic devices for their future development This book presents the application side of organic electronics from a technological economic and environmental perspective It is intended for researchers and students in university programs or engineering schools specializing in electronics energy and materials

Organic Electronics Fabio Cicoira, Clara Santato, 2013-07-17 An overview of the tremendous potential of organic electronics concentrating on those emerging topics and technologies that will form the focus of research over the next five to ten years The young and energetic team of editors with an excellent research track record has brought together internationally renowned authors to review up and coming topics some for the first time such as organic spintronics iontronics light emitting transistors organic sensors and advanced structural analysis As a result this book serves the needs of experienced researchers in organic electronics graduate students and post doctoral researchers as well as scientists active in closely related fields including organic chemical synthesis thin film growth and biomaterials Cover Figure With kind permission of Matitaccia

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

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

Organic Electronic and Photonic Materials and Devices: Volume 660 Steven C. Moss, 2001-09-04 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

Sustainable Strategies in Organic Electronics Assunta Marrocchi, 2022-02-02 Sustainable Strategies in Organic Electronics reviews green materials and devices sustainable processes in electronics and the reuse recycling and degradation of devices Topics addressed include

large scale synthesis and fabrication of safe device materials processes that neither use toxic reagents solvents or produce toxic by products Emerging opportunities such as new synthetic approaches for enabling the commercialization of pi conjugated polymer based devices are explored along with new efforts towards incorporating materials from renewable resources for a low carbon footprint Finally the book discusses the latest advances towards device biodegradability and recycling It is suitable for materials scientists and engineers chemists physicists in academia and industry Discusses emerging opportunities for green materials synthesis and fabrication of organic electronics Reviews the challenges of integration of sustainable strategies in large scale manufacturing of organic electronics Provides an overview of green materials and solvents that can be used as alternatives to toxic materials for organic electronics applications **Electronic Waste** Maria E. Holuszko,Amit Kumar,Denise C. R. Espinosa,2022-03-21 Discover the latest technologies in the pursuit of zero waste solutions in the electronics industry In Electronic Waste Recycling and Reprocessing for a Sustainable Future a team of expert sustainability researchers delivers a collection of resources that thoroughly examine methods for extracting value from electronic waste while aiming for a zero waste scenario in industrial production The book discusses the manufacturing and use of materials in electronic devices while presenting an overview of separation methods for industrial materials Readers will also benefit from a global overview of various national and international regulations related to the topic of electronic and electrical waste A must read resource for scientists and engineers working in the production and development of electronic devices the authors provide comprehensive overviews of the benefits of achieving a zero waste solution in electronic and electrical waste as well as the risks posed by incorrectly disposed of electronic waste Readers will enjoy An introduction to electronic waste including the opportunities presented by zero waste technologies and solutions Explorations of e waste management and practices in developed and developing countries and e waste transboundary movement regulations in a variety of jurisdictions Practical discussions of approaches for estimating e waste generation and the materials used in electronic equipment and manufacturing perspectives In depth treatments of various recycling technologies including physical separation pyrometallurgy hydrometallurgy and biohydrometallurgy Perfect for materials scientists electronic engineers and metal processing professionals Electronic Waste Recycling and Reprocessing for a Sustainable Future will also earn a place in the libraries of industrial chemists and professionals working in organizations that use large amounts of chemicals or produce electronic waste

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