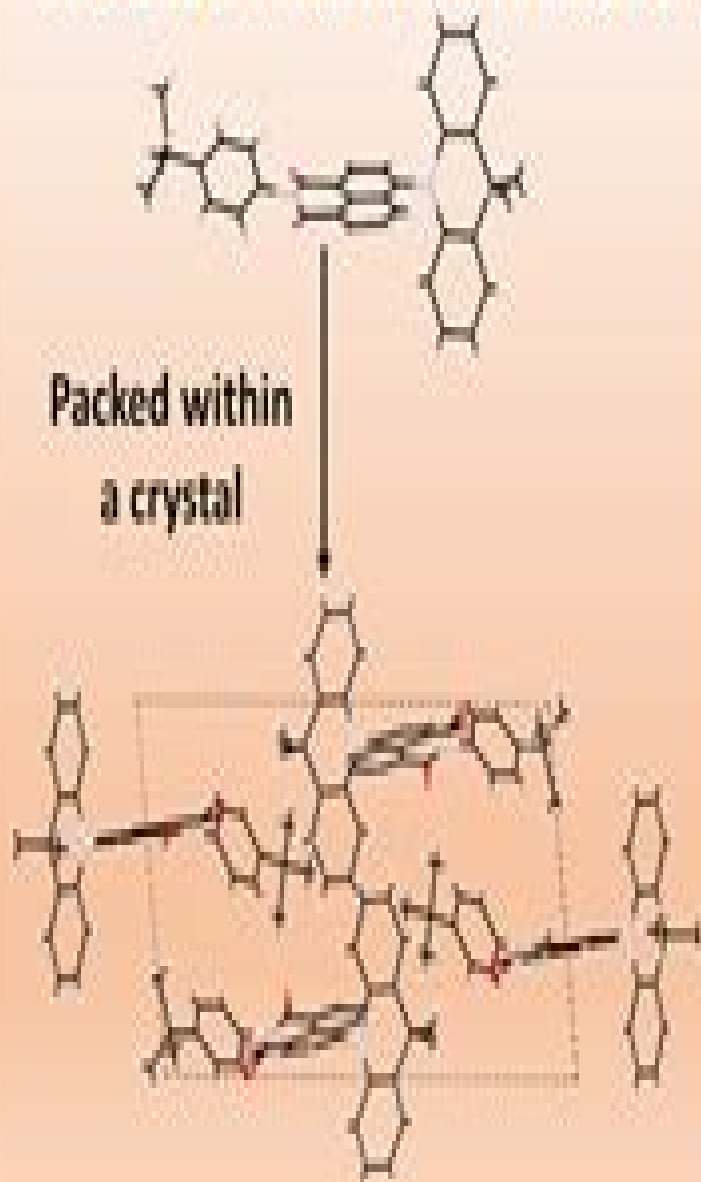
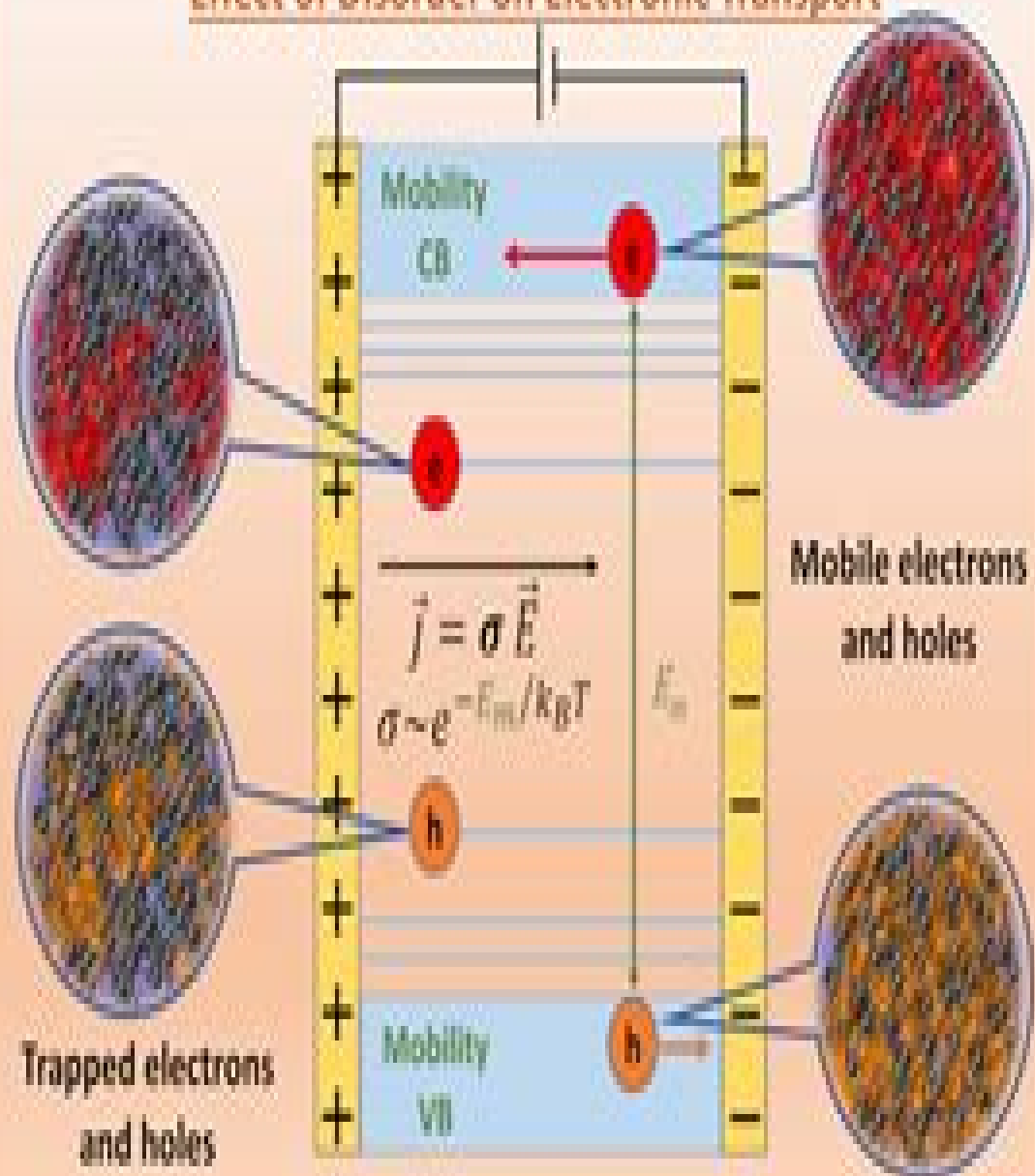


# Organic Electronic Materials

## Effect of Packing, Thermal Motion Etc.



## Effect of Disorder on Electronic Transport



# Organic Electronic Materials

**Piero Cosseddu, Mario Caironi**



## **Organic Electronic Materials:**

**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

**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, 2009-10-08 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

**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 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 *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

*Organic Electronic Materials* R. Farchioni, G. Grosso, 2014-09-01 **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** 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      **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 Flexible Electronics* Piero Cosseddu, Mario Caironi, 2020-09-29 Organic Electronics is a novel field of electronics that has gained an incredible attention over the past few decades New materials device architectures and applications have been continuously introduced by the academic and also industrial communities and novel topics have raised strong interest in such communities as molecular doping thermoelectrics bioelectronics and many others Organic Flexible Electronics is mainly divided into three sections The first

part is focused on the fundamentals of organic electronics such as charge transport models in these systems and new approaches for the design and synthesis of novel molecules. The first section addresses the main challenges that are still open in this field including the important role of interfaces for achieving high performing devices or the novel approaches employed for improving reliability issues. The second part discusses the most innovative devices which have been developed in recent years such as devices for energy harvesting, flexible batteries, high frequency circuits and flexible devices for tattoo electronics and bioelectronics. Finally the book reviews the most important applications moving from more standard flexible back panels to wearable and textile electronics and more futuristic applications like ingestible systems. Reviews the fundamental properties and methods for optimizing organic electronic materials including chemical doping and techniques to address stability issues. Discusses the most promising organic electronic devices for energy electronics and biomedical applications. Addresses key applications of organic electronic devices in imagers, wearable electronics, bioelectronics.

Organic electronic materials for hydrogen peroxide production Maciej Gryszel, 2020-02-25 Hydrogen peroxide  $\text{H}_2\text{O}_2$  is an important oxidant used in various fields of industry such as paper manufacturing, production of polymers, detergents and cosmetics. Considering that the molecule degrades only to  $\text{H}_2\text{O}$  and  $\text{O}_2$  it is regarded as a green chemical. Unfortunately the incumbent method of  $\text{H}_2\text{O}_2$  synthesis based on anthraquinone oxidation although efficient is not environmentally friendly as it requires fossil fuels and significant energy input. Therefore there are efforts underway to reduce the ecological impact of hydrogen peroxide production. Some of the most promising approaches involve catalytic reduction of  $\text{O}_2$  to  $\text{H}_2\text{O}_2$  in an aqueous environment. This can be coupled with water oxidation. As the required energy could be delivered in different ways hydrogen peroxide synthesis can be achieved by electrocatalysis, photoelectrocatalysis or photocatalysis. This thesis explores the possibility of using organic electronic materials as catalysts for  $\text{H}_2\text{O}_2$  evolution in oxygenated water solutions. Organic electronics is a field of materials science focused on conducting and semiconducting organic molecules. These materials offer many possible advantages related to low cost, flexibility and good optoelectronic properties. Huge progress in the field over the last years led to their commercial applications in e.g. organic light emitting diodes and photovoltaics. Only very recently have organic electronics begun to be considered from the point of view of catalysis. In the first two papers we investigate electrocatalytic activity of an organic pigment PTCDI and a conducting polymer PEDOT towards oxygen reduction to hydrogen peroxide. Both types of catalysts are chemically stable and able to operate in a wide pH range. In paper 3 we demonstrate that  $\text{H}_2\text{O}_2$  evolving photocathodes can be based on an organic PN heterojunction giving devices of a record breaking performance. In the first part of paper 4 the same concept was tested for a naturally occurring semiconductor eumelanin leading to a first report of photoelectrocatalytic properties of this material. In the second part of paper 4 as well as in papers 5 and 6 we explore respectively photochemical hydrogen peroxide synthesis with eumelanin, organic semiconductors and organic dyes. We show that the photostability of catalysts is higher for materials with low lying HOMO

level and it can be increased by an addition of a reducing agent to the reaction system Our findings prove that already existing organic electronic materials can be successfully applied in H<sub>2</sub>O<sub>2</sub> evolution for environmentally friendly chemical synthesis suggesting their use in harvesting of solar energy and in situ generation of hydrogen peroxide for biomedical applications

Väteperoxid H<sub>2</sub>O<sub>2</sub> är en viktig oxidant som används inom olika industrier så som papperstillverkning och produktion av polymerer tvättmedel och kosmetika Med tanke på att molekylen bryts ner till vatten H<sub>2</sub>O och syre O<sub>2</sub> betraktas den som en grön kemikalie Tyvärr är den befintliga metoden för framställning av H<sub>2</sub>O<sub>2</sub> baserad på oxidation av en antrakinon en metod som är effektiv men inte miljövänlig eftersom den kräver fossila bränslen och betydande energitillförsel Det pågår därför ansträngningar för att minska den ekologiska effekten av väteperoxidproduktionen Några av de mest lovande metoderna involverar katalytisk O<sub>2</sub> till H<sub>2</sub>O<sub>2</sub> reduktion i vattenlösning kombinerat med vattenoxidation Eftersom den nödvändiga energin kan levereras på olika sätt kan väteperoxidsyntesen uppnås genom elektrokatalys fotoelektrokatalys eller fotokatalys Denna avhandling undersöker möjligheten att använda organiska elektroniska material som katalysatorer för framställning av H<sub>2</sub>O<sub>2</sub> i syresatta vattenlösningar Organisk elektronik är ett område inom materialvetenskap med fokus på ledande och halvledande organiska molekyler Dessa material erbjuder många fördelar så som låg kostnad flexibilitet och goda optoelektroniska egenskaper Enorma framsteg på området har under de senaste åren lett till deras kommersiella tillämpningar i till exempel organiska ljusemitterande dioder och fotovoltaik Nyligen har också organisk elektronik börjat växa ur katalysens synvinkel I de två första artiklarna undersöker vi en elektrokatalytisk aktivitet av ett organiskt pigment PTCDI och en ledande polymer PEDOT i respekt till syrereduktion och väteperoxidproduktion Både typerna av katalysatorer är kemiskt stabila och kan arbeta inom ett brett pH område I artikel 3 visar vi att H<sub>2</sub>O<sub>2</sub> producerande fotokatoder kan baseras på en organisk PN-gränssyta vilket ger enheter med en rekordbrytande kapacitet I den första delen av artikel 4 testades samma koncept för en naturligt förekommande halvledare eumelanin vilket ledde till en första rapport om fotoelektrokatalytiska egenskaper hos detta material I den andra delen av artikel 4 samt i artikel 5 och 6 undersöker vi fotokemisk väteperoxidsyntes med eumelanin organiska halvledare och organiska förgämnare Vi visar att fotostabiliteten hos katalysatorer är högre för material med lågt liggande HOMO-nivå och att den kan ökas genom en tillsats av ett reduktionsmedel till reaktionssystemet Vår fynd visar att redan befintliga organiska elektroniska material framgångsrikt kan tillämpas i H<sub>2</sub>O<sub>2</sub> utvecklingen för miljövänlig kemisk syntes vilket antyder att de kan användas för att ta tillvara på solenergi och för produktion av väteperoxid inom biomedicin

*Organic Semiconductors for Optoelectronics* Hiroyoshi Naito, 2021-07-30 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

Conjugated Polymers for Organic Electronics Andrew Grimsdale, Paul Dastoor, 2024-04-04 Focusing on how conjugated polymers can be designed and made for use in efficient organic electronic devices this book covers the tools for future development of more environmentally and economically friendly devices Including examples of interdisciplinary science it exemplifies how chemists and physicists work together to enable the design and synthesis of high performance material in devices allowing polymer based electronic devices to become viable commercial products It provides the main classes of conjugated polymers and their applications in organic electronic devices such as transistors light emitting diodes and solar cells making this a comprehensive introduction This complete guide includes the methods for making conjugated polymers the properties and specific structures that make them suitable for use and how their synthesis can be optimised to improve device performance Written by experts in the field this is the ideal guide for researchers and practitioners across materials science physics chemistry and electrical engineering

*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

**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 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 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     Synthesis and Properties of Organic Electronic Materials and Processing Using Supercritical Carbon Dioxide Georgia Elizabeth McCluskey, 2009     **Organic Electronics From Synthesis To**

**Applications** John George Hardy, Jae Young Lee, Carlo Augusto Bortolotti, Wolfgang Knoll, Fabio Biscarini, 2020-02-03 Organic electronics is one of the most exciting emerging areas of materials science It is a highly interdisciplinary research area involving scientists and engineers who develop organic molecules with interesting properties for a variety of applications in technical industries e g circuitry energy harvesting storage etc and medical applications e g bioelectronics for sensors tissue scaffolds for tissue engineering etc This Research Topic collects articles that report advances in chemistry e g design and synthesis of molecules with various molecular weights and structures physical chemistry and chemical physics and computational theoretical research e g to push the boundaries of our understanding chemical engineering e g design prototyping and manufacturing devices materials scientists and technologists to explore different markets for the technologies employing such materials the organic bioelectronics field and green sustainable electronics

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