

Organic Light-Emitting Materials and Devices



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Organic Light Emitting Materials And Devices Optical Science And Engineering

Guohua Xie



Organic Light Emitting Materials And Devices Optical Science And Engineering:

Organic Light-Emitting Materials and Devices Zhigang Li,Zhigang Rick Li,Hong Meng,2006-09-12 New advances offer flexible low cost fabrication methods for light emitting materials particularly in display technologies As researchers continue to develop novel applications for these materials feasible solutions for large scale manufacturing are increasingly important Organic Light Emitting Materials and Devices covers all aspects of organic light emitting diodes OLEDs focusing on the unique characteristics of electroluminescent materials device structures and fabrication technologies Written by internationally recognized experts across several fields this book first explains the multilayered structure and fundamental physics that account for OLED design The book compiles information on the synthesis properties and device performance of nearly 1 000 organic small molecule and polymer based electroluminescent materials It also investigates practical manufacturing techniques for OLED fabrication as well as methods used for microstructural characterization performance measurement and defect analysis Later chapters discuss the patent status of the currently employed organic light emitting materials potential applications of OLEDs and the challenges facing future developments from both academic and industrial perspectives Incorporating the latest research on hundreds of light emitting organic materials Organic Light Emitting Materials and Devices reflects the current understanding of molecular design in the field and reveals the most stable and efficient electroluminescent materials as well as the vast potential for future applications

Organic Light Emitting Materials and Devices Zakya H. Kafafi,1997 Organic Light-emitting Materials and Devices ,1998 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 **OLED Fundamentals** Daniel J. Gaspar, Evgueni Polikarpov, 2015-05-15 A Comprehensive Source for Taking on the Next Stage of OLED R DOLED Fundamentals Materials Devices and Processing of Organic Light Emitting Diodes brings together key topics across the field of organic light emitting diodes OLEDs from fundamental chemistry and physics to practical materials science and engineering aspects to design and ma Optik und Photonik Bahaa E. A. Saleh, Malvin Carl Teich, 2020-04-22 Vollst ndig bearbeitete Neuauflage des ma geblichen Grundlagen Lehrbuchs zur Optik und Photonik umfassend bearbeitet und mit einem neuen Kapitel zur Metamaterialoptik erweitert Die Optik ist eines der ltesten und faszinierendsten Teilgebiete der Physik und fest in den Curricula des Physikstudiums verankert Sie besch ftigt sich mit der Ausbreitung von Licht und Ph nomenen wie Interferenz Brechung Beugung und optischen Abbildungen Die Photonik umfasst optische Ph nomene die prim r auf der Wechselwirkung von quantisiertem Licht und Materie beruhen und befasst sich mit dem Verst ndnis und der Entwicklung optischer Bauteile und Systeme wie etwa Lasern LEDs und photonischen Kristallen In bew hrter Weise gibt die vollst ndig bearbeitete und erweiterte Neuauflage des Saleh Teich eine Einf hrung in die Grundlagen der Optik und Photonik f r Studierende der Physik und verwandter Wissenschaften Ausf hrliche Erkl rungen rund 1000 Abbildungen und die zur quantitativen Durchdringung notwendige Mathematik erm glichen ein tiefes Verst ndnis aller Teilgebiete der klassischen und modernen Optik Umfassend und verst ndlich s mtliche Grundlagen der Optik und Photonik in einem Werk vereint Geschrieben von hervorragenden Didaktikern mit langer Lehrerfahrung optische Ph nomene und deren Physik stehen im Vordergrund der notwendige mathematische Apparat wird behutsam entwickelt bearbeitet und erweitert alle Kapitel wurden mit Blick auf noch bessere Verst ndlichkeit kritisch gepr ft und aktualisiert Komplett neu umfangreiches Kapitel zu Metamaterialoptik Optik und Photonik richtet sich an Bachelor und Master Studierende der Physik Materialwissenschaften und Ingenieurwissenschaften **Flexible, Wearable, and Stretchable Electronics** Katsuyuki Sakuma, 2020-11-19 Remarkable progress has been achieved within recent years in developing flexible wearable and stretchable FWS electronics These electronics will play an increasingly significant role in the future of electronics and will open new product paradigms that conventional semiconductors are not capable of This is because flexible electronics will allow us to build flexible circuits and devices on a substrate that can be bent stretched or folded without losing functionality This revolutionary change will impact how we interact with the world around us Future electronic devices will use flexible electronics as part of ambient intelligence and ubiquitous computing for many different applications such as consumer electronics medical healthcare and security devices Thus these devices have the potential to create a huge market all over the world Flexible Wearable and Stretchable Electronics provide a comprehensive technological review of the state of the art developments in FWS electronics This book offers the reader a taste of what is possible with FWS electronics and describes how these electronics can provide unique solutions for a wide variety of applications Furthermore the book introduces and explains new applications of flexible technology that has opened up the

future of FWS electronics **Journal of Biobased Materials and Bioenergy** ,2008 Nanoscale Optics and Applications
Guozhong Cao,Wiley P. Kirk,2001 **Solution-Processed Organic Light-Emitting Devices** Guohua Xie,2023-08-29
Solution Processed Organic Light Emitting Devices provides a comprehensive reference on the principles and advances in materials design device structures and processing technologies of organic light emitting diodes OLEDs Most importantly the book analyses the dynamics of thin film growth from solutions such as solvent orthogonalization coffee ring effects and interfacial adhesion Exciton generation and utilization host guest energy transfer and interfacial interaction in the solution processed films are considered with the material and device design to maximize the electroluminescent performance of OLEDs The book reviews the materials devices and technologies dedicated to solution processed thin film devices which are not only applicable to OLEDs but may be adapted to other emerging semiconducting devices due to the similarity in methods for instance quantum dot LEDs and solar cells and perovskite based LEDs photovoltaics detectors This book is suitable for researchers in academia and industry working in the materials science and engineering chemistry and physics disciplines Discusses the most relevant and emerging solution processable materials for OLED applications Reviews device engineering to address defects charge transport and exciton generation in fabricated solution processable thin films Provides the methods to grow multilayered thin films from solutions with organic semiconductors with particular attention to new technologies to overcome interfacial mixing effects **Materials Science & Engineering** ,2004 **Light-emitting Diode Materials and Devices** Gang Yu,Chuangtian Chen,Changhee Lee,2005 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature *Engineering Optics 2.0* Xiangang Luo,2019-02-28 This book provides comprehensive information on the history and status quo of a new research field which we refer to as Engineering Optics 2 0 The content covers both the theoretical basis and the engineering aspects in connection with various applications The field of Engineering Optics employs optical theories to practical applications in a broad range of areas However the foundation of traditional Engineering Optics was formed several hundred years ago and the field has developed only very gradually With technological innovations in both the fabrication and characterization of microstructures the past few decades have witnessed many groundbreaking changes to the bases of optics including the generalizing of refraction reflection diffraction radiation and absorption theories These new theories enable us to break through the barriers in traditional optical technologies yielding revolutionary advances in traditional optical systems such as microscopes telescopes and lithography systems **Journal of Nanoscience and Nanotechnology** ,2005 **Photoacoustic Imaging and Spectroscopy** Lihong Wang,2017-12-19 Photoacoustics promises to revolutionize medical imaging and may well make as dramatic a contribution to modern medicine as the discovery of the x ray itself once did Combining electromagnetic and

ultrasonic waves synergistically photoacoustics can provide deep speckle free imaging with high electromagnetic contrast at high ultrasonic resolution and without any health risk While photoacoustic imaging is probably the fastest growing biomedical imaging technology this book is the first comprehensive volume in this emerging field covering both the physics and the remarkable noninvasive applications that are changing diagnostic medicine Bringing together the leading pioneers in this field to write about their own work Photoacoustic Imaging and Spectroscopy is the first to provide a full account of the latest research and developing applications in the area of biomedical photoacoustics Photoacoustics can provide functional sensing of physiological parameters such as the oxygen saturation of hemoglobin It can also provide high contrast functional imaging of angiogenesis and hypermetabolism in tumors in vivo Discussing these remarkable noninvasive applications and so much more this reference is essential reading for all researchers in medical imaging and those clinicians working at the cutting edge of modern biotechnology to develop diagnostic techniques that can save many lives and just as importantly do no harm Materials, Devices, and Systems for Display and Lighting Fuxi Gan, Ming H. Wu, L. C. Kimerling, 2002

Light-emitting Diodes ,2006 *Applied Physics Express* ,2008 Laser Surface Engineering Jonathan R. Lawrence, David Waugh, 2014-10-02 Lasers can alter the surface composition and properties of materials in a highly controllable way which makes them efficient and cost effective tools for surface engineering This book provides an overview of the different techniques the laser material interactions and the advantages and disadvantages for different applications Part one looks at laser heat treatment part two covers laser additive manufacturing such as laser enhanced electroplating and part three discusses laser micromachining structuring and surface modification Chemical and biological applications of laser surface engineering are explored in part four including ways to improve the surface corrosion properties of metals Provides an overview of thermal surface treatments using lasers including the treatment of steels light metal alloys polycrystalline silicon and technical ceramics Addresses the development of new metallic materials innovations in laser cladding and direct metal deposition and the fabrication of tuneable micro and nano scale surface structures Chapters also cover laser structuring surface modification and the chemical and biological applications of laser surface engineering

Electrical & Electronics Abstracts ,1997

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