



Organic Light-Emitting Materials and Devices VIII

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Organic Light-Emitting Materials and Devices Zhigang Rick Li, 2017-12-19 *Organic Light Emitting Materials and Devices* provides a single source of information covering all aspects of OLEDs including the systematic investigation of organic light emitting materials device physics and engineering and manufacturing and performance measurement techniques This Second Edition is a compilation of the advances made in recent years and of the challenges facing the future development of OLED technology Featuring chapters authored by internationally recognized academic and industrial experts this authoritative text Introduces the history fundamental physics and potential applications of OLEDs Reviews the synthesis properties and device performance of electroluminescent materials used in OLEDs Reflects the current state of molecular design exemplifying more than 600 light emitting polymers and highlighting the most efficient materials and devices Explores small molecules based OLEDs detailing hole and electron injection and electron transport materials electron and hole blocking materials sensitizers and fluorescent and phosphorescent light emitting materials Describes solution processable phosphorescent polymer LEDs energy transfer processes polarized OLEDs anode materials and vapor deposition manufacturing techniques employed in OLED fabrication Discusses flexible display the backplane circuit technology for organic light emitting displays and the latest microstructural characterization and performance measurement techniques Contains abundant diagrams device configurations and molecular structures clearly illustrating the presented ideas *Organic Light Emitting Materials and Devices* Second Edition offers a comprehensive overview of the OLED field and can serve as a primary reference for those needing additional information in any particular subarea of organic electroluminescence This book should attract the attention of materials scientists synthetic chemists solid state physicists and electronic device engineers as well as industrial managers and patent lawyers engaged in OLED related business areas *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 Materials and Devices*, 1999

Organic Light Emitting Devices Jai Singh, 2012-11-14 This book describes the state of the art advancement in the field of organic electroluminescence contributed by many researchers with internationally established expertise in the field It includes original contributions on the synthesis of suitable organic materials fabrication of organic light emitting devices OLEDs and organic white light emitting devices WOLEDs characterization of these devices and some designs for optimal performance All chapters are self sufficient in presenting their contents The cost effective chemical technology offers many exciting possibilities for OLEDs and organic solar cells OSCs to be futuristic solutions for lighting and power generation A common flexible substrate can be used to fabricate OLEDs on one side facing a room and OSCs on the other side facing the

sun The device thus fabricated can generate power in the day time and light a room house at night The book covers developments on OLEDs WOLEDs and briefly on OSCs as well *Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes (TADF-OLEDs)* Lian Duan,2021-10-15 Thermally Activated Delayed Fluorescence Organic Light Emitting Diodes TADF OLEDs comprehensively introduces the history of TADF along with a review of fundamental concepts Then TADF emitters with different colors such as blue green red and NIR as well as white OLEDs are discussed in detail Other sections cover exciplex type TADF materials emerging application of TADF emitters as a host in OLEDs and applications of TADF materials in organic lasers and biosensing Discusses green blue red NIR and white TADF emitters and their design strategies for improved performance for light emitting diode applications Addresses emerging materials such as molecular and exciplex based TADF materials Includes emerging applications like lasers and biosensors **Organic and Polymeric Materials and Devices - Optical, Electrical and Optoelectronic Properties: Volume 725** Materials Research Society. Meeting,2002-10-22 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners Organic Semiconductor Materials and Devices J. Weidner,2008-04 The papers included in this issue of ECS Transactions were originally presented in the symposium Organic Semiconductor Materials and Devices held during the 212th meeting of The Electrochemical Society in Washington DC from October 7 to 12 2007

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