



Organic Light-Emitting Materials and Devices (Optical Science and Engineering)

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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.

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