



Efficient Organic Light Emitting-Diodes (OLEDs)

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Following two decades of intense research globally, the organic light-emitting diode (OLED) has steadily emerged as the ultimate display technology of choice for the coming decades. Portable active matrix OLED displays have already become prevalent, and even large-sized ultra-high definition 4K TVs are being mass-produced. More exotic applications such as wearable displays have been commercialized recently. With the burgeoning success in displays, researchers are actively bringing the technology forward into the exciting solid-state lighting market.

This book presents the knowledge needed for students and researchers from diverse disciplines to understand the underlying principles in OLED technology. It begins with a brief history and fundamental working principles of OLEDs. After introducing the fundamentals, it discusses more efficient OLED designs, as well as advanced strategies to enhance the performance. The text covers in detail important areas such as top-emission, p- and n-type doping, device stability, light extraction, and stacked white OLEDs. It also throws light on the current industry practice and major areas of focus in the near future.

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Editorial Review

Review

"OLEDs are a rapidly developing new technology having applications in both display and lighting. Although broad commercial application has been reached for small OLED displays, there are many more challenges in chemistry, physics, and engineering to be addressed to exploit the full potential of this technology. Yi-Lu Chang's book fills a gap by providing a concise review of the state of the art of this fast-progressing field. The author has worked in one of the world's leading groups on high-efficiency OLEDs and can thus provide deep insight into the key issues of improving this technology."

? Prof. Karl Leo, Technische Universität Dresden, Germany

About the Author

Yi-Lu Chang received his BSc in engineering physics from the University of British Columbia, Vancouver, Canada, in 2007, and MEng in electrical engineering from McGill University, Montreal, Canada, in 2009, where he specialized in molecular beam epitaxial growth of group III-nitride nanowires and their applications in light-emitting diodes. In 2014, he received his PhD in materials science and engineering from the University of Toronto, Canada, where he focused on the development of efficient organic light-emitting diodes (OLEDs) for displays and solid-state lighting. Currently, Dr. Chang is vice president of research at OTI Lumionics Inc., which specializes in the development of novel OLED products for general lighting and displays.

Users Review

From reader reviews:

Melissa Chandler:

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