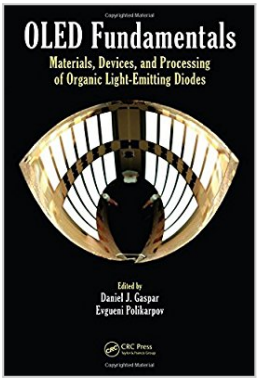

OLED Fundamentals: Materials, Devices, and Processing of Organic Light-Emitting Diodes

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A Comprehensive Source for Taking on the Next Stage of OLED R&D

OLED 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 manufacturing factors. Experts from top academic institutions, industry, and national laboratories provide thorough, up-to-date coverage on the most useful materials, devices, and design and fabrication methods for high-efficiency lighting.

The first part of the book covers all the construction materials of OLED devices, from substrate to encapsulation. For the first time in book form, the second part addresses challenges in devices and processing, including architectures and methods for new OLED lighting and display technologies.

The book is suitable for a broad audience, including materials scientists, device physicists, synthetic chemists, and electrical engineers. It can also serve as an introduction for graduate students interested in applied aspects of photophysics and electrochemistry in organic thin films.

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Editorial Review

Review

"True to its title, the book carefully treats the fundamentals of OLED operation, but it covers practical methods as well. … One special feature of this publication is the delineation of device and processing challenges, including designing OLEDs for lighting applications. The book indicates the need for more work in this respect. Those interested in taking up the challenge will be well-equipped for that task if they read this book."
?*Optics & Photonics News*, September 2015

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?Christopher T. Brown, PhD, Vice President, Process Engineering, Kateeva, Inc.

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Daniel J. Gaspar is the technical group manager of the Applied Materials Group at Pacific Northwest National Laboratory. His group concentrates on the discovery and application of new materials for energy applications. His research interests also include nanoscale materials characterization. He earned a PhD in physical chemistry from the University of Chicago.

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