



Device and Process Technology for Full-Color Active-Matrix OLED Displays

By Michael Kröger

Cuvillier Verlag Nov 2007, 2007. Taschenbuch. Book Condition: Neu. 212x147x12 mm. Neuware - Organic light emitting diodes fascinate due to unique properties like an extremely thin design, wide viewing angle and low energy consumption. For these reasons, OLED technology appears to be a promising technology for high-end display units. Today, organic light emitting diodes are already applied for low resolution applications as - for instance - mobile phone and automotive sub-displays. For being a serious competitor the high-resolution large-area display market, active-matrix driving circuits have to be integrated onto the display substrate. Since the circuitry is most likely to be opaque, the light has to be emitted rather from the top than through the substrate. This is, where inverted organic light emitting diodes step into the spotlight. The term 'inverted' refers to a reversed deposition sequence compared to conventional bottom-emitting OLEDs. Up-scaling of laboratory deposition processes to high-volume production means further challenges on the way to commercial full-color AM-OLED displays. The present study focuses on the realization of highly efficient IOLEDs and the development of scalable deposition and patterning processes. Utilizing highly phosphorescent emitter materials boosts the efficiency of inverted IOLEDs. As a precondition, luminescence quenching via thermal recrystallization of the...



READ ONLINE
[4.48 MB]

Reviews

Most of these ebook is the perfect publication accessible. It is written in easy terms and not difficult to understand. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- **Anastasia Kihn**

I just started out reading this ebook. I could comprehend every little thing out of this written e book. I am pleased to inform you that this is actually the very best publication i have read through inside my personal life and could be the best ebook for ever.

-- **Antonia Orn IV**