Highly Efficient OLEDs with Phosphorescent Materials

This brand-new monograph on organic light emitting diodes, edited by a pioneer, and written by front-line researchers from academia and industry, provides access to the latest findings in this rapidly growing field. More than ten contributions cover all areas – from theory and basic principles, to different emitter materials and applications.
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Fundamentals, Applications

Sections on:
Emitter Materials, Triplet Emitters, Metal Complexes, and more.

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- Electroluminescence from metal containing polymers and metal complexes with functional ligands by C.S.K. Mak and W.K. Chan
- Phosphorescent platinum(II) materials for OLED applications by H.-F. Xiang, S.-W. Lai, C.-M. Che
- Pyridyl azolate based luminescent complexes: Strategic design, photophysics and applications by Y. Chi and P.-T. Chou
- Phosphorescent light emitting electrochemical cells by L. DeCola
- Progress in electroluminescence based on lanthanide complexes by Z.-Q. Bian and C.-H. Huang
- Performance limiting spin correlations in organic light-emitting diodes by M.J. Walter and J.M. Lupton
- Physical processes in polymer-based electrophosphorescent devices by D. Neher
- Heavy metal complexes for high efficiency electroluminescence by M.E. Thompson
- Energy transfer processes between phosphorescent guest and fluorescent host molecules by I. Tanaka and S. Tokito
- Highly efficient red-phosphorescent iridium complexes by A. Tsuoyama, S. Okada, K. Ueno
- High-efficiency phosphorescent polymer LEDs by A. van Dijken, K. Brunner, H. Börner, B.M.W. Langeveld
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