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Titolo	Organic light-emitting devices [[electronic resource]] : synthesis, properties, and applications / / edited by Klaus Mullen and Ullrich Scherf
Pubbl/distr/stampa	Weinheim, : Wiley-VCH, c2006
ISBN	1-280-85430-8 9786610854301 3-527-60798-6 3-527-60723-4
Descrizione fisica	1 online resource (430 p.)
Altri autori (Persone)	MullenK (Klaus) ScherfUllrich
Disciplina	535 620.11295
Soggetti	Electroluminescent devices Light emitting diodes Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Inorganic semiconductors for light-emitting diodes -- Electronic processes at semiconductor polymer heterojunctions -- Photophysics of luminescent conjugated polymers -- Polymer-based light-emitting diodes (PLEDs) and displays fabricated from arrays of PLEDs -- Metal/polymer interface studies for organic light-emitting devices -- The synthesis of electroluminescent polymers -- Charge-transporting and charge-blocking amorphous molecular materials for organic light-emitting diodes -- Dendrimer light-emitting diodes -- Crosslinkable organic semiconductors for use in organic light-emitting diodes (OLEDs) -- Hybrid OLEDs with semiconductor nanocrystals -- Polymer electrophosphorescence devices -- Low-threshold organic semiconductor lasers.
Sommario/riassunto	This high-class book reflects a decade of intense research, culminating in excellent successes over the last few years. The contributions from both academia as well as the industry leaders combine the

fundamentals and latest research results with application know-how and examples of functioning displays.As a result, all the four important aspects of OLEDs are covered:- syntheses of the organic materials- physical theory of electroluminescence and device efficiency- device conception and construction- characterization of both materials and devices.The whole is naturally