Organic Light Emitting Devices A Survey

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US Patent for Organic light-emitting device Patent (Patent ...
An organic light-emitting device having a layer 10 containing a delayed blue fluorescent material, a layer 11 containing separately or together a green fluorescent material and a red fluorescent...

Organic Light Emitting Diodes (OLEDs) - Universal Display ...
This book reflects a decade of intense research on organic light emitting devices (OLEDs), culminating in excellent successes over the last few years which have resulted in the first commercializations of organic displays.

US10290824B2 - Organic light-emitting device - Google Patents
In an organic light-emitting device including a hole transport layer, a light-emitting layer containing a light-emitting dopant in a charge transport material, and an electron transport layer in...

Zwitterions for Organic/Perovskite Solar Cells, Light ...
An organic light-emitting device pertaining to one aspect of the present invention is an organic light-emitting device comprising a plurality of light emitters arranged in two dimensions along a surface of a substrate.

Organic electronics - Wikipedia
Device Architecture and Materials for Organic Light-Emitting Devices focuses on the design of new device and material concepts for organic light-emitting devices, thereby targeting high current densities and an improved control of the triplet concentration. A new light-emitting device architecture, the OLED with field-effect electron transport, is demonstrated.

Organic Light Emitting Devices: Synthesis, Properties and ...
Recent developments, however, make it possible to manufacture organic light-emitting devices that are thin, bright, efficient, and stable and that produce a broad range of colors. This book surveys the current status of the field. It begins with an overview of the physics and chemistry of organic light emitting devices by J. Shinar and V. Savvateev.

Organic Light Emitting Devices | Wiley Online Books
Organic Light-Emitting Materials and Devices, Second Edition offers a comprehensive overview of the OLED field and can serve as a primary reference for those needing additional information in any particular subarea of organic electroluminescence. This book should attract the attention of materials scientists, synthetic chemists, solid-state physicists, and electronic device engineers, as well as industrial managers and patent lawyers engaged in OLED-related business areas.

High-efficiency fluorescent organic light-emitting devices ...
Patternable organic light-emitting devices use a light or heat activated electroactive layer. A latent material is included in this layer that, upon activation, becomes highly efficient as a hole injection layer. Using this process, light-emitting devices with arbitrary patterns can be prepared.

OLED - Wikipedia
In an organic light-emitting diode (OLED), the electroluminescent material composing the emissive layer of the diode is an organic compound. The organic material is electrically conductive due to the delocalization of pi electrons caused by conjugation over all or part of the molecule,...

US9178173B2 - Organic light emitting device - Google Patents
Organic Light-Emitting Materials and Devices provides a single source of information covering all aspects of OLEDs, including the systematic investigation of organic light-emitting materials, device physics and engineering, and manufacturing and performance measurement techniques.

Light-emitting diode - Wikipedia
An OLED (organic light-emitting diode) consists of a thin film of organic material that emits light under stimulation by an electric current. A typical OLED consists of an anode, a cathode, OLED organic material and a conductive layer.

US10236466B2 - Organic light emitting device - Google Patents
As a control, two other organic light-emitting device (OLED) structures were made. In the first, Ir(ppy) 3 was replaced by Alq 3 , which has similar emission and absorption spectra, but no ...

Device Architecture and Materials for Organic Light ...
With the rapid advances of zwitterionic materials, high-performance devices have been constructed with enhanced efficiencies by introducing them as interface layers and electrolyte additives. In this review, recent progress in OSCs, PVSCs, OLEDs, and LIBs by using zwitterions is highlighted.

Organic Light-Emitting Diode - an overview | ScienceDirect ...
According to one embodiment, an organic light emitting device is described including a first light emitting unit, a second light emitting unit and a charge generation layer wherein the second light emitting unit is stacked over the first light emitting unit and is connected to the first light emitting unit by means of the charge generation layer and wherein the charge generation layer includes an electron transport layer, a transition metal oxide layer arranged over the electron transport ...

Organic Light-Emitting Materials and Devices: Zhigang Rick ...
Organic light-emitting diodes are known for short as OLEDs. OLED technology stands on the application of conjugated organic semiconductors, as thin film devices emit light once an electrical charge passes through when a potential applied.

JP5149497B2 - Organic light emitting device - Google Patents
The present invention relates to an organic light emitting device that includes a layered structure including a substrate, a bottom electrode and a top electrode, wherein the bottom electrode is...

Organic Light-Emitting Devices: A Survey: Joseph Shinar ...
- 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 rounded off with a look at what the future holds in store.

Organic Light Emitting Devices A
Organic Light Emitting Diodes (OLEDs) Organic light emitting diodes (devices) or OLEDs are monolithic, solid-state devices that typically consist of a series of organic thin films sandwiched between two thin-film conductive electrodes. When electricity is applied to an OLED, under the influence of an electrical field,...