

Organic Light Emitting Devices A Survey

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~~Organic Light Emitting Devices (OLEDs): The Coming Revolution in Displays and Lighting~~ ~~How Organic Light Emitting Diodes Revolutionized Displays: Stephen Forrest~~ ~~LEDs - Light Emitting Diodes - Basic Introduction~~ ~~OLED—Organic Light Emitting Diodes—Part 4~~ ~~Preparation Of An Organic Light Emitting Diode~~ ~~Dr Alexander Romanov: Novel materials for Organic Light Emitting Diodes technology~~

~~Organic Light Emitting Diode~~ ~~OLED~~ ~~TV~~ ~~Organic Light Emitting Diode~~ ~~Television~~

~~Organic Light Emitting Diodes (OLEDs)~~

~~Organic Light Emitting Diode (OLED)~~ ~~Organic Light Emitting Diodes (OLEDs)~~ ~~Tufts School of Engineering: Organic Light Emitting Devices~~ ~~OLEDWorks~~ ~~OLED light panel manufacturing~~ ~~A DIY OLED Display Really Surprised me!~~ ~~Samsung AMOLED Production Process~~ ~~LG's Future Display Teechnology Will Blow You Away~~ ~~BOE Flexible Phone_8K_5644PPI micro-display (17x Retina)~~ ~~Printed OLED_QLED and more~~

~~Organic Light Emitting Diodes Process~~

~~Organic Light Emitting Diodes~~ ~~The LED—How LEDs work?—English version~~ ~~LED Vs OLED TV's—EXPLAINED SIMPLY~~ ~~LEDs and OLEDs - How it Works, Inventors~~ ~~Ching W. Tang - Science and Technology of Organic Light-Emitting Diode~~ ~~OLED (organic light-emitting device)~~ ~~Introduction to OLED displays~~ ~~Organic light-emitting diodes, the science and challenges, by Joseph Shinar~~

~~OLED - Organic Light Emitting Diodes - Part 2~~

~~Organic Light Emitting Diode~~ ~~OLED Market~~ ~~Organic Light Emitting Diodes (OLEDs) | Science and Technology | Prelims 3 Minutes Series~~ ~~Video abstract: Solution-Processed Organic Light-Emitting Transistors~~ ~~Organic Light Emitting Devices A~~

An organic light-emitting diode (OLED or organic LED), also known as organic electroluminescent (organic EL) diode, is a light-emitting diode (LED) in which the emissive electroluminescent layer is a film of organic compound that emits light in response to an electric current. This organic layer is situated between two electrodes; typically, at least one of these electrodes is transparent.

~~OLED—Wikipedia~~

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—A Survey | Joseph Shinar ...~~

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.

~~Organic Light-Emitting Materials and Devices—2nd Edition ...~~

Organic light-emitting devices (OLEDs) (1, 2), in particular vacuum-deposited OLEDs, have sufficient brightness, range of color , and operating lifetimes to make them a possible alternative to...

~~Three-Color, Tunable, Organic Light-Emitting Devices | Science~~

New advances offer flexible, low-cost fabrication methods for light-emitting materials, particularly in display technologies. As researchers continue to develop novel applications for these materials, feasible solutions for large-scale manufacturing are increasingly important. Organic Light-Emitting Materials and Devices covers all aspects o

~~Organic Light-Emitting Materials and Devices | Taylor ...~~

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.

~~Organic Light Emitting Diodes(OLEDs)—Universal Display ...~~

LG's next-generation OLED TVs have been ranked as the Best of CES for many years, which are based on white organic light-emitting device (WOLED) technology. Nevertheless, it took almost 30 years of tremendous research efforts to develop this technology from a simple experimental sample to such excellent products.

~~Evolution of white organic light-emitting devices: from ...~~

Organic Light-Emitting Diode OLEDs are complex multilayer electronic devices which use fluorescent dyes to provide the source of the RGB pixelated colours in the emitter layer of multicolour displays. From: Handbook of Textile and Industrial Dyeing, 2011

~~Organic Light-Emitting Diode—an overview | ScienceDirect ...~~

A flexible organic light-emitting diode (FOLED) is a type of organic light-emitting diode (OLED) incorporating a flexible plastic substrate on which the electroluminescent organic semiconductor is deposited. This enables the device to be bent or rolled while still operating. Currently the focus of research in industrial and academic groups, flexible OLEDs form one method of fabricating a ...

~~Flexible organic light-emitting diode—Wikipedia~~

Organic light emitting diodes (OLEDs) are efficient large area light sources facing their market entry. Still, the development of stable and more efficient blue emitters and the enhancement of light outcoupling remain challenges for further device improvements.

~~Device efficiency of organic light-emitting diodes ...~~

Abstract Studies on the long-term degradation of organic light-emitting devices (OLEDs) based on tris (8-hydroxyquinoline) aluminum (AIQ 3), the most widely used electroluminescent molecule, reveal...

~~Degradation Mechanism of Small Molecule-Based Organic ...~~

We describe the performance of an organic light-emitting device employing the green electrophosphorescent material, fac tris(2-phenylpyridine) iridium [Ir(ppy) 3] doped into a 4,4'-bis(2,2,6,6-tetramethylpiperidin-1-yl)-N,N'-diphenyl-1,1'-diphenyl-4,4'-dicarbazole-biphenyl host. These devices exhibit peak external quantum and power efficiencies of 8.0% (28 cd/A) and 31 lm/W, respectively.

~~Very high efficiency green organic light-emitting devices ...~~

Hybrid white organic light-emitting diodes (WOLEDs) combining blue fluorophores and green/red (or yellow) phosphors are still preferred for OLED production applications due to their advantages of good stability and high efficiency. One major challenge is to have a suitable blue fluorophore material to fully

~~Highly efficient fluorescence/phosphorescence hybrid white ...~~

In a new report now published on Nature, Michael A. Fusella and a research team at the Universal Display Corporation U.S. developed an OLED (organic light emitting device) with plasmonic decay rate...

~~Plasmonic enhancement of stability and brightness in ...~~

The platinum porphyrins exhibited strong phosphorescence in the red with narrow line widths. When they were doped into aluminum (III) tris (8-hydroxyquinolate) (AIQ 3) in the electron-transporting and -emitting layer of an organic light-emitting device, energy transfer occurred between the host AIQ 3 and the platinum porphyrin.

~~Efficient, Saturated Red Organic Light Emitting Devices ...~~

New Bipolar Host Materials for Realizing Blue Phosphorescent Organic Light-Emitting Diodes with High Efficiency at 1000 cd/m2. ACS Applied Materials & Interfaces 2014, 6 (22), 19808-19815. DOI: 10.1021/am505049h. Daniel Wagner, Sebastian T. Hoffmann, Ute Heinemeyer, Ingo Münster, Anna Köhler, and Peter Strohriegl.

~~A High Tg Carbazole-Based Hole Transporting Material for ...~~

We demonstrate very high efficiency electrophosphorescence in organic light-emitting devices employing a phosphorescent molecule doped into a wide energy gap host.

~~Nearly 100% internal phosphorescence efficiency in an ...~~

We developed a highly efficient, deep-red organic light-emitting device (OLED) with an external quantum efficiency of nearly 18% with a very low turn-on voltage of 2.41 V and an electroluminescence emission wavelength (λ_{EL}) of 670 nm using energy transfer from an exciplex host to a deep-red phosphorescent em

~~Highly efficient, deep-red organic light-emitting devices ...~~

The present invention relates to an organic light emitting display device using organic light emitting diodes (OLEDs) and a method of manufacturing the same. 2. Discussion of the Related Art. Recently, with the advancement of multimedia, the importance of flat panel display (FPD) devices is increasing.