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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.

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**Organic Light-Emitting Materials
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Organic Light-Emitting Materials and Devices covers all aspects of organic light-emitting diodes (OLEDs), focusing on the unique characteristics of electroluminescent materials, device structures, and fabrication technologies.

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**Organic Light-Emitting Materials
and Devices (Optical ...**

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

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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 ...

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As such, this Research Topic will focus on this new generation of organic light-emitting materials and devices, including design, synthesis, and characterization of light-emitting low-mass organic molecules, oligomers, dendrimers, polymers, and their structural, electrical, and optical properties.

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A New Generation of Organic Light- Emitting Materials and ...

Organic light-emitting diodes (OLEDs) unfurl mainstream lighting and display technology in consumer electronics. Over the last three decades, numerous approaches to material synthesis and device design have been implemented

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for improving OLED performance. For the constant demand for high-efficiency and long-lifetime OLEDs, the development of high-performance organic electroluminescence materials is of prime concern.

Hole-transporting materials for organic light-emitting ...

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OLEDs are electronic devices that employ a series of thin, light-emitting films composed of hydrocarbon chains, rather than semiconductors laden with heavy metals like gallium arsenide phosphide as in existing LED technology. These organic arrays between two conductors with different work functions produce bright light by utilizing less

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energy [12].

**Organic Light-Emitting Diode - an
overview | ScienceDirect ...**

Full-color emissive organic materials have attracted significant attention in recent years as key components in display and lighting devices based on OLEDs. An ideal white-light emitter

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demands simultaneous emission of red, green and blue with nearly similar distribution of intensities covering the entire region of visible spectra.

Organic white-light emitting materials - ScienceDirect

An organic light-emitting diode (OLED or Organic LED), also known as an organic

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EL (organic electroluminescent) 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.

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OLED - Wikipedia

Although it has long been possible to make organic materials emit light, it has only recently become possible to do so at the level and with the efficiency and control necessary to make the materials a useful basis for illumination in any but the most specialized uses. This book surveys the current status of the field.

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[PDF] Download Organic Light Emitting Devices Free ...

Organic light-emitting diodes (OLEDs) and quantum dots (QDs) are mainstream applications in large-sized displays. Owing to their narrow photoluminescence...

Luminance compensation in top-

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emitting organic light ...

One of the key issues for organic light-emitting diodes (OLEDs) is to achieve high electroluminescence efficiency and high power efficiency, which requires extremely efficient electron injection and thus low driving voltage. Here, we design a series of precursors for reactive organic radicals according to theoretical

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calculations and achieve efficient
electron injection by using a highly ...

Organic Radicals Outperform LiF as Efficient Electron ...

The past decade has witnessed
tremendous research efforts devoted to
two-dimensional (2D) materials and
great progress made in both their

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fundamental studies and technique development. 2D light-emitting materials such as transition-metal dichalcogenides (TMDs) and phosphorene are receiving particular attention as a result of their intriguing electronic, optical and optoelectronic properties.

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Two-dimensional light-emitting materials: preparation ...

At the Paul Scherrer Institute PSI, researchers have gained insights into a promising material for organic light-emitting diodes (OLEDs). The substance enables high light yields and would be...

In search of the lighting material of

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the future

Emitters exhibiting thermally activated delayed fluorescence (TADF) are promising as the third generation of luminescent materials for use in organic light-emitting diodes (OLEDs) 1, 2.

**Long-lived efficient delayed
fluorescence organic light ...**

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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,...

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POLYMER, ORGANIC LIGHT-EMITTING
DEVICE MATERIAL INCLUDING THE
SAME, AND ORGANIC LIGHT-EMITTING
DEVICE INCLUDING THE ORGANIC LIGHT-
EMITTING DEVICE MATERIAL . United
States Patent Application 20170186950 .
Kind Code: A1 . Abstract: A polymer
comprising a first repeating unit
represented by Formula 1: ...

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POLYMER, ORGANIC LIGHT- EMITTING DEVICE MATERIAL INCLUDING ...

Abstract Near-infrared (NIR) emitting materials have attracted considerable attention because of their potential applications in organic light emitting diodes, bioimaging, military, etc. The

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research on NIR-emitting materials and devices is motivated by fundamental and practical application demands.

Near-Infrared Emitting Materials via Harvesting Triplet ...

Tsuyoshi Sekitani et al. Stretchable active-matrix organic light-emitting diode display using printable elastic

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conductors, Nature Materials (2009).
DOI: 10.1038/nmat2459

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