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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.

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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 ...

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

Organic light emitting diodes (OLEDs) are established as a

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mainstream light source for display applications and can now be found in a plethora of consumer electronic devices used daily. This success can be attributed to the rich luminescent properties of organic materials, but efficiency enhancement made over the last few decades has also played a significant role in making OLEDs a practically viable technology.

Organic Light Emitting Diodes: Pushing Toward the Limits

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The past decade has witnessed tremendous research efforts devoted to two-dimensional (2D) materials and great progress made in both their fundamental studies and technique development. 2D light-emitting materials such as

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transition-metal dichalcogenides (TMDs) and phosphorene are receiving particular attention 2D nanomaterials: beyond graphene and transition metal dichalcogenides

Two-dimensional light-emitting materials: preparation ...
An OLED converts electric energy into light by using an organic material or a polymer as an active layer or emitter. The structure and the physical principle of OLEDs are shown in Fig. 19.16 . A basic diode is composed of an emitter sandwiched between two electrodes: a transparent anode (usually ITO) and a metal cathode (usually of low work function, such as calcium or barium).

Organic Light-Emitting Diode - an overview | ScienceDirect

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Obtaining white light from organic LEDs is a considerable challenge. Alongside the development of new materials with improved color stability and balanced charge transport properties, major issues involve the fabrication of large area devices and the development of low cost manufacturing technology.

Recent Advances in White Organic Light Emitting Materials ...

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

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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

The electro-pumped organic molecular film can be made by highly efficient light-emitting devices, as discovered by Tang and van Slyke for small molecules and by Burroughes et al. for polymers . Gustaffson et al. proposed solution-processed printable polymer light-emitting technology [3].

Organic light-emitting diodes: theoretical understanding ...
Blue organic light-emitting diodes: current status,
challenges, and future outlook

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Blue organic light-emitting diodes: current status ...

This short review surveys the development of red fluorescent materials for the application of organic light-emitting diodes (OLEDs) that generate red electroluminescence (EL). The merit and problems of current dopant-based, either fluorescent or phosphorescent, red OLEDs will be addressed first.

Evolution of Red Organic Light-Emitting Diodes: Materials ...

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...

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Plasmonic enhancement of stability and brightness in ...
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 ...
A comprehensive review of the literature on electron transport materials (ETMs) used to enhance the performance of organic light-emitting diodes (OLEDs) is presented. The structure - property - performance relationships of many classes of ETMs, both small-molecule- and polymer-based, that have been widely used to improve

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OLED performance through control of charge injection, transport, and ...

Electron Transport Materials for Organic Light-Emitting ...
Organic materials that display a property called reverse intersystem crossing (RISC) have shown great promise as light-emitting materials for OLEDs. “ In OLEDs, such materials theoretically allow an internal charge-to-photon conversion efficiency of 100%, ” says Naoya Aizawa from the RIKEN Center for Emergent Matter Science, who co-led the current study.

Computer models reliably predict light-emitting behavior ...
This thesis describes the synthesis and study of organic

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materials to achieve high efficiency in organic light emitting devices (OLEDs). A number of blue fluorescent and green to blue phosphorescent host polymers based on dibenzophosphole oxides have been synthesized and studied.

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