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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

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and patent lawyers
engaged in OLED-
related business areas.
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**Organic Light-
Emitting Materials
and Devices - 2nd
Edition ...**

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

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structures, and
fabrication
technologies.

**Organic Light-
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...

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comprehensive
overview of the OLED
field and can serve as
a primary reference for
those needing
additional information

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**Organic Light-
Emitting Materials**

Page 8/25

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**and Devices, Li,
Zhigang ...**

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

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Materials and Devices
covers all aspects o

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**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,

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oligomers, dendrimers,
polymers, and their
structural, electrical,
and optical properties.

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

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

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conductive electrodes.

**Organic Light
Emitting Diodes
(OLEDs) - Universal
Display ...**

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 demands simultaneous emission

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

Organic white-light emitting materials - ScienceDirect

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

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their 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.

Two-dimensional light-emitting

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**materials:
preparation...**

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

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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 [1] for small molecules and by Burroughes et al. for polymers [2].
Gustaffson et al.

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proposed solution-
processed printable
polymer light-emitting
technology [3].

**Organic light-
emitting diodes:
theoretical
understanding ...**

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

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device) with plasmonic
decay rate...

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

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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Since its birth in the laboratory, organic light-emitting diode (OLED) technology has developed into an industry worth tens of billions of dollars in the past three decades. In industrial ...

**Light from rare
earth: New**

Page 19/25

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**opportunities for
organic light ...**

Organic light-emitting diodes (OLEDs) are established as a mainstream light source for display applications and can now be found in a plethora of consumer electronic devices used daily.

**Organic
Light-Emitting
Diodes: Pushing
toward the Limits ...**

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Blue-emitting organic materials are important for solid-state lighting applications. However, their availability is still scarce compared to that of green- and red-emitting materials because of their intrinsic wide band gap, and hence the difficulty in preparing them.

Organic Light-Emitting Diode - an

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overview |

ScienceDirect ...

Blue-Green, Orange,
and White Organic
Light-Emitting Diodes
Based on Exciplex
Electroluminescence of
an Oligoquinoline
Acceptor and Different
Hole-Transport
Materials. The Journal
of Physical Chemistry C
2008 , 112 (13) ,
5174-5184.

**Electron Transport
Materials for**

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Organic Light- Emitting ...

Abstract

Phosphorescent emissive materials in organic light-emitting diodes (OLEDs) manufactured using evaporation are usually blended with host materials at a concentration of 3–15 wt% to avoid concentration quenching of the luminescence.

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**Revealing the
Interplay between
Charge Transport ...**
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While green and red emitting materials are relatively abundant, efficient blue emitting materials with high stability have proven to be more challenging to produce. [1, 2] In addition to requiring...

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