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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

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increasingly important.

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covers all aspects o

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As such, this Research
Topic will focus on this
new generation of
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including design,

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characterization of light-
emitting low-mass
organic molecules,
oligomers, dendrimers,
polymers, and their
structural, electrical, and
optical properties.

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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

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Diodes: Pushing
Toward the Limits ...
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

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development. 2D light-emitting materials such as transition-metal dichalcogenides

(TMDs) and

phosphorene are

receiving particular

attention 2D

nanomaterials: beyond

graphene and transition

metal dichalcogenides

Two-dimensional light-emitting materials:

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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

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transparent anode
(usually ITO) and a
metal cathode (usually
of low work function,
such as calcium or
barium).

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Obtaining white light
from organic LEDs is a
considerable challenge.

Alongside the
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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
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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

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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

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by Tang and van Slyke
for small molecules and
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development of red
fluorescent materials for
the application of
organic light-emitting
diodes (OLEDs) that
generate red

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dopant-based, either
fluorescent or
phosphorescent, red
OLEDs will be
addressed first.

Evolution of Red
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Diodes: Materials ...
In a new report now
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Michael A. Fusella and
a research team at the
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Corporation U.S.

developed an OLED
(organic light emitting
device) with plasmonic
decay rate...

Plasmonic enhancement
of stability and
brightness in ...

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diodes (devices) or

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OLEDs are monolithic, solid-state devices that typically consist of a series of organic thin

films sandwiched

between two thin-film conductive electrodes.

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A comprehensive review of the literature on electron transport

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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 OLED performance through

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injection, transport, and
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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,

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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 ...

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This thesis describes the

synthesis and study of

organic 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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investigation of organic
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OLED fabrication
Discusses flexible
display, the backplane
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applications of OLEDs
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properties, and device
performance of
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current state of
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Organic light-emitting diodes (OLEDs) are opening up exciting new applications in the area of lighting and displays.

OLEDs are self-emissive and by careful materials and device design can generate colours across the visible spectrum.

Together with simple monolithic fabrication on a range of different

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substrates, these diverse material properties give OLEDs key advantages over existing display and lighting technology.

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conjugated polymers,
transparent conducting
thin films, iridium
complexes and
phosphorescent
materials. Part two
discusses the operation
and engineering of
OLED devices.

Chapters discuss topics
such as highly efficient
pin-type OLEDs,
amorphous organic
semiconductors,

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Organic light-emitting diodes (OLEDs) is a standard reference for engineers working in lighting, display technology and the consumer electronics sectors, as well as those researching OLEDs.

Summarises key

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nanostructuring OLEDs
for increasing levels of
efficiency

Since the invention of
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OLEDs have attracted
close interest as a
promising candidate for
next-generation full-
color displays and future
solid-state lighting
sources because of a
number of advantages
like high brightness and
contrast, high luminous
efficiency, fast response
time, wide viewing

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angle, low power consumption, and light weight. The recombination of holes and electrons under electrical excitation typically generates 25% singlet excitons and 75% triplet excitons. For traditional fluorescent OLEDs, only 25% singlet excitons can be utilized to emit light, while the

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other 75% triplet
excitons are generally
wasted through
nonradiative transition.

By adopting noble metal
phosphorescent
complexes, an internal
quantum efficiency
(IQE) of 100% could be
achieved by utilizing
both the 25% singlet
excitons and 75% triplet
excitons. However,
these phosphors usually

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contain nonrenewable
and highcost iridium or
platinum noble metals.

Most recently, unity

IQE has been readily
achieved through noble
metal-free purely

organic emitters, such as
thermally activated
delayed fluorescence

(TADF) emitters,

hybridized local and
charge-transfer state

(HLCT) “hot exciton”

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emitters, binary- or ternary-mixed donor-acceptor exciplex emitters, and neutral p radical emitters, etc. In addition, the combination of conventional p-type hole-transport and n-type electron-transport materials in an appropriate device structure can also provide an uncommon

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efficiency. Both strategies are essential and attractive for high-performance and low-cost full-color displays and white OLED applications. This Research Topic mainly focus on this new generation of organic light-emitting materials and devices, including design, synthesis, and characterization of light-

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carrier transporting
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by recognized academic
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will offer a broad
perspective of noble
metal-free organic light
emitters, including
conventional fluorescent
emitters, TADF
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scientists, device

physicists, synthetic

chemists, and electrical

engineers. It can also

serve as an introduction

for graduate students

interested in applied

aspects of photophysics

and electrochemistry in

organic thin films.

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characteristics of

electroluminescent

materials, device

structures, and

fabrication technologies.

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across several fields,
this book first explains
the multilayered
structure and
fundamental physics
that account for OLED
design. The book
compiles information on
the synthesis, properties,
and device performance
of nearly 1,000 organic
small molecule- and
polymer-based
electroluminescent

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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. The editor,
Klaus Muellen, is
director of the highly

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prestigious MPI for polymer research in Mainz, Germany, while the authors include

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ways in which the
development of organic
semiconductor materials
is opening up new
applications in
electronic and

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covers the development
of luminescent materials
for OLEDs, discussing
the advantages and
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luminescent materials.

The fabrication and characterization of OLEDs is also covered in detail, including information on, and comparisons of, vacuum deposition and solution techniques. Finally, applications of OLEDs are explored, including OLEDs in solid-state lighting, colored lighting, displays and

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evolving rapidly with commercial applications in recent years. OLED materials and design are moving into an advanced stage with optimising techniques becoming more important. This work presents the use of porphyrin materials for organic electronics, specifically for organic light emitting diodes

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using phosphorescent emission. The porphyrins show interesting photophysical properties which allow for an exploitation of the normally forbidden triplet energy states to achieve a significant enhancement in the device efficiency. This research presents a simple host-guest

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system where this concept is demonstrated. Various porphyrin structures are synthesised and tuned for OLED performance, from this, we can learn how chemical structure relates to the exciton dynamics and their resulting light emission. It is hoped that this work outlines a possible route to phosphorescent

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