



Fluorescence and Phosphorescence in Organic Materials: from Fundamental to OLED Devices

Guest Editors:

Mr. Geoffroy Bernard

LICSEN, NIMBE, CEA, CNRS,
Université Paris-Saclay, CEA
Saclay, 91191 Gif-sur-Yvette,
CEDEX, France

Dr. Denis Tondelier

Laboratoire de Physique des
Interfaces et des Couches Minces
(LPICM), CNRS, Ecole
Polytechnique, Université Paris
Saclay, CEA Saclay, 91191 Gif-sur-
Yvette, CEDEX, France

Deadline for manuscript
submissions:

closed (31 July 2018)

Message from the Guest Editors

During the last few decades, organic light-emitting devices (OLEDs) have shown a strong utility as commercial products, such as in flat panel displays and lighting sources. Three different generations of organic materials have been used for the fabrication of OLEDs: 1) RGB fluorescent molecules (1987) with an internal quantum efficiency (IQE) up to 25%; 2) phosphorescent materials (1998) with an IQE reaching 100% by using both singlet and triplet states emission; and 3) Thermally Activated Delayed Fluorescent (TADF) materials (2012) with an IQE of nearly 100%. In this Special Issue devoted to fluorescence and phosphorescence in OLED devices, chemists, physicists, material scientists, and electronic and process engineers will find in-depth coverage on organic materials used in OLED technology, from basic concepts to technological and industrial aspects.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/Applsci)