Special Issue

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

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.

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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.

Editor-in-Chief

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