Special Issue

High-Performance Organic Light Emitting Devices

Message from the Guest Editor

Dear colleagues, Organic light-emitting diodes (OLEDs) have successfully been deployed in mobile phones, televisions and light sources in recent decades, owing to continued improvements in both lifetimes and performance. The new generation OLEDs are far more energy-efficient light sources then traditional incandescent light bulbs and can cover the full spectral range, from visible, to infrared, and ultraviolet wavelengths. New high conductivity conjugated semiconductor polymers, small molecules and nanoparticles are used to achieve high performance OLEDs by incorporation into multilayer structures. Developing new emitter materials to improve the external quantum efficiency and lifetime of OLEDs is a hot topic nowadays. In particular, the use of thermally activated delayed fluorescence (TADF) molecules has been shown to harvest triplet excitons to achieve high performance OLEDs. In addition, the high solubility of these new materials in green solvents provides the opportunity to use modern printed technologies to deliver next-generation high-performance organic electronic devices.

Guest Editor

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