Special Issue

Advances in Luminescent Materials and Devices

Message from the Guest Editor

Luminescent materials and their application in optoelectronic devices are drawing significant research interest owing to their wide application purpose and promising performance. In addition to the traditional luminescent materials such as pure organic dyes, transition metal complexes and rare-earth complexes, many novel luminescent materials have been developed and explored for applications in device construction and sensing, among other applications. For example, metal–organic frameworks (MOFs), covalent organic frameworks (COFs) and porous aromatic frameworks (POFs) have been widely reported. Their large conjugation structure endows them with luminescence features. In addition, their porous structure makes them excellent supporting hosts for other probes and nanoreactors, meaning that these framework materials can be widely developed and explored for versatile purposes. Further research attention has been localized on device construction in order to develop their practical applications, such as optical sensing, phototherapy, molecular sieving, catalysis and photovoltaics.

Guest Editor

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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