

Special Issue

Advanced Functional Materials for Optoelectronic and Sensing Applications

Message from the Guest Editor

Currently, it is hard to imagine a convenient life without the latest achievements in optoelectronic technologies. At the same time, using increasingly ecological and environmentally friendly methods of synthesizing (manufacturing) the components used in these (and others) technologies has become necessary. This results in a constant need to search for more efficient devices with longer working times, based on cheaper and greener production processes. Typically, solid organic compounds emit a much weaker light than in solutions. Therefore, a practical goal is to obtain solid compounds showing enhanced light emission, i.e., "aggregation-induced emission" (AIE). It should also be emphasized that, apart from applications in organic electronics, AIE luminogens are currently used as bio- and chemosensors, as well as for information storage and bioimaging (to name a few examples). This Special Issue aims to present advances in AIE theory, mechanisms, and applications, alongside the synthesis and examination of AIE luminogens themselves. Both experimental and theoretical contributions are welcome, in the form of research articles, short communications, perspectives, and reviews.

Guest Editor

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Message from the Editorial Board

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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