Special Issue

Perovskite Nanomaterials for Functional Devices and Sensors

Message from the Guest Editor

Metal halide perovskite nanomaterials recently emerged as star materials in many fields, including solar cells, light-emitting diodes, and detectors. The purpose of this Special Issue is to highlight recent advances in perovskite nanomaterials for functional devices. Examples include the synthesis and characterization of novel perovskite nanocrystals, perovskite quantum dot light-emitting diodes, perovskite quantum dot solar cells, perovskite-nanomaterials-based detectors, perovskite nanocrystal scintillators, etc. This Special Issue covers all aspects of perovskite nanomaterials, including theory, synthetic efforts, novel processing methods, and the developments in device performance. In addition to lead halide-based nanomaterials, lead-free perovskites nanomaterials will also be included.

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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