Special Issue

Recent Advances in Optoelectronic Functional Nano-Materials

Message from the Guest Editors

This Special Issue aims to bringing together professionals and academics performing advanced research on materials with outstanding optical and optoelectronic properties that have the potential to positively shape the information-processing and energy-demanding world of tomorrow. The main purpose is to collect innovative and original contributions targeting modern challenges in optoelectronics and photonics. Nanomaterials research is highly multidisciplinary and strongly benefiting from international cooperation, and has successfully entered the stage of industrial application. Similarly, the revisited class of 2D materials with controllable single-layer features that are now increasingly being explored promise a new age of optoelectronic nanodevices. Ultimately, the synthesis of quantum materials has evolved to the extent that mass producibility and device integration have become common topics. In fact, certain materials have shown very interesting properties that render them attractive candidates for optoelectronic devices. Future on-chip optoelectronic circuitry for computing or possibly biomedical applications may also benefit from recent advances in this overarching field.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

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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