Special Issue

Trends in Electronic and Optoelectronic Materials

Message from the Guest Editors

The ever-growing development of electronic and optoelectronic materials is the fundamental source of progress in novel devices and systems, which meet the contemporary standards and upcoming challenges related to low-power consumption, energy harvesting, efficient conversion between electrical and optical signals, sensing, or high-speed electrical and optical signal processing, as well as many others. This Special Issue aims to broadly cover the up-to-date aspects of the theory, design, technology, characterization, and current and future applications of novel materials, particularly concerning the following topics: -wide-band semiconductor materials -ultra-thin layers, composite materials, and new high-k dielectric materials -CMOS-compatible technological platforms of functional materials, nanomaterials, and metamaterials - development of new materials and media for lasing, light amplification, detection, laser cooling, photovoltaics, and luminophore applications

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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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