

Special Issue

Semiconductor Optoelectronic Materials and Devices

Message from the Guest Editor

Materials publishes original papers and review articles on the design, synthesis, characterization and applications of optoelectronic materials.

This issue will bring together outstanding papers reporting new and original work in the following areas: (1) applications of semiconductor physics and technology to electronics and optoelectronics, including theory and device design with appropriate experimental backup; (2) optical, electrical, morphological characterization techniques and parameter extraction with experimental application to real devices; (3) device fabrication and synthesis, including device-related new materials growth, electro-optical characterization and performance evaluation; (4) the physics and modeling of submicron and nanoscale microelectronic and optoelectronic devices, including processing, measurement, and performance evaluation; (5) modeling and simulation of solid-state devices and processes with appropriate experimental backup; (6) nanoscale electronic and optoelectronic devices for various applications, including photovoltaics and sensing.

Guest Editor

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About the Journal

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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