Special Issue

Semiconductor with Novel Electronic and Optoelectronic Properties: Design, Fabrication and Characterization

Message from the Guest Editor

Semiconductors with novel electronic and optoelectroni c properties have become an extremely active research field, encompassing novel electronic and optoelectronic materials, nanomaterials, physical phenomena and design concepts. The objective of this Special Issue is to address these conceptual challenges while highlighting novel trends in electronic and optoelectronic materials and devices, such as the structural properties, band structure, transport, surfaces and interfaces, optical and magnetic properties of semiconductor structures. In addition to conventional semiconductor physics, self-assembled structures, mesoscopic structures and the developing field of spintronics, the effects of low-dimensional physics and strain are included, as well as its modeling and component development.

Guest Editor

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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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