Special Issue

Physical Properties of Nanostructured Materials and Related Opto-/Electronic Devices

Message from the Guest Editors

Nanostructured materials have attracted significant attention owing to their unique optical, electrical, and mechanical features. The research community has been focusing on obtaining in-depth insights on the physical properties and transforming advances into the design of diverse device applications, particularly opto-/electronics, in solving practical problems that traditional materials cannot address. This Special Issue entitled “Physical Properties of Nanostructured Materials and Related Opto-/electronic Devices” attempts to consolidate recent developments and investigations in the area of nanostructured materials with emphasis placed on their fundamental physical properties, as well as their application in various opto-/electronics, such as photovoltaic cells, photodetectors, light-emitting devices, (photo-)transistors, memory, photocatalysis, thermoelectric devices, and so on. The issue will collate reviews and progress reports that discuss the past, present, and future of opto-/electronic technologies enabled by nanostructured materials along with original papers and communications on experimental and modeling works.

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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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