

Special Issue

Nano-Structured Materials for Solar Cells and Gas Sensors

Message from the Guest Editor

This Special Issue aims to give a brief overview of the current state of the development of the nanostructured materials (semiconductors, metal oxides, and composite thin films) for use in photovoltaic conversion and gas sensors. This includes active and passive elements of solar cells and sensors, with an emphasis on properties of nano-structural materials, methods of deposition, and characterization concerning their specific roles in the final device. The expected contributions should cover a broad field of research, from theory, experiment, specific characterization methods, material properties related to specific structures, core-shell particles, alloys, thin films, and multi-layers, to device properties and perspectives.

Guest Editor

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Deadline for manuscript submissions

closed (20 January 2022)



Materials

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Impact Factor 3.2
CiteScore 6.4
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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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