Special Issue

Semiconducting Thin Films for Energy Harvesting

Message from the Guest Editor

Thin semiconductor films find growing applications in both research and technological development, which expand significantly beyond the traditional field of microelectronics. This concerns a broad research area on energy harvesting and conversion, which mainly concerns thin film photovoltaics, but also topics such as thermoelectricity, photocatalytic processes, fuel cells, hydrogen generation and storage, and more. From the point of view of a materials scientist, it is interesting to study how materials can have very different behaviors in different thin film applications. It is therefore important to promote a Special Issue on this broad topic, inviting contributions on semiconducting thin film material design, synthesis, deposition and processing, as well as theoretical and modelling studies with the most up-to-date simulation methods.

Guest Editor

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Deadline for manuscript submissions

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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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