

Special Issue

Materials for Solar Photovoltaic Applications

Message from the Guest Editors

The Special Issue will cover the following issues (not exclusively):

- Solar cells—conventional materials (Si, CIGS, etc.) and new ones;
- Various concept of solar cells—semiconductor solar cells, chemical organic solar cells, dye solar cells, thin film and plastic solar cells;
- Perovskite solar cells—efficiency and new low-cost methods of production;
- Metallization of solar cells toward better efficiency;
- Theory of photovoltaic effect—quantum corrections for the metallic component plasmon effect, multilayer solar cells, multicolor solar cells, and others;
- Large-scale solar cell plants for global energetics—efficiency and durability;
- Solar cells for special application—such as for satellites or small-scale low-cost applications in developing countries;
- Study for optimization of solar cell solutions by numerical systems (like COMSOL and similar)—development of numerical tools;
- Other issues related to photovoltaics.

Guest Editors

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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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