Special Issue

Recent Development in Dye-Sensitized and Organic Solar Cells

Message from the Guest Editor

The effective direct conversion of solar energy into electricity is one of the most important technological challenges of the current era of searching for renewable and environmentally-friendly energy sources. Photovoltaic devices based on organic materials including dye-sensitized (DSSCs) as well as fully organic solar cells (OPVs) represent a promising alternative to conventional (inorganic) devices, due to their low materials processing cost, ease of production, and possible scaling for large areas. Despite considerable efforts made in recent years, further improvement of performance and increase in stability of organic devices are still required for their effective competition with widely-used mature crystalline silicon-based cells. This Special Issue aims to provide contributions to interdisciplinary exchange of information gathering original research papers as well as critical review articles on the latest developments in all aspects of solar cells based on organic materials.

Guest Editor

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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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