Special Issue

Perovskite Materials for Photovoltaic Applications

Message from the Guest Editor

Perovskites are materials that adopt the same crystal structure as calcium titanate (CaTiO3), namely, ABX3. Perovskite solar cells (PSCs) is the term used for photovoltaic cells with hybrid organic–inorganic perovskite as absorbing material, so papers studying the formation, structure, and morphology of perovskite layers and the optimization of bandgap, efficiency, toxicity, long-term stability, hysteresis in current–voltage characteristics, and other properties of PSCs are broadly welcomed. The topics relevant to the issue also include the investigation of other materials having perovskite structures, including inorganic perovskites, for building into photovoltaic devices as any other layer of the solar cell. This Special Issue welcomes manuscripts that include correlation of the functional properties of perovskite materials with chemical composition, micro- and nanostructure, morphology, and preparation methods. Theoretical studies aiming to predict preferred properties for the photovoltaic application of perovskite materials are also in the scope of this Special Issue.

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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