Special Issue

Emerging Perovskite Materials: Synthesis, Properties and Diverse Applications

Message from the Guest Editors

Perovskite is a calcium titanium oxide mineral with the crystal structure of ABX3. Any materials having a similar crystal structure of CaTiO3 are known as perovskite-structured materials. From the discovery of perovskite minerals in the 18th century, numerous perovskite-structured materials ranging from ceramic oxides to hybrid organic–inorganic semiconductors have been discovered. These specific crystal-structured materials have intriguing physical properties ranging from insulation to superconducting properties, which have been used for various applications including photovoltaic, optical, electrical, superconductors, magnetic, catalytic, and environmental applications. This Special Issue will bring together high-quality research and review articles on synthesis, properties, and diverse applications of perovskite-structured materials

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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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