

Special Issue

Smart Materials and Devices for Energy Harvesting

Message from the Guest Editor

Energy harvesting is one of the key enabling technologies for the IoT world. It allows to feed wireless sensors and low-power electronics in general, exploiting environmentally available energy. Several methods allow energy harvesting from the environment:

Magnetostrictives and piezoelectrics; Coupling mechanical and/or thermal variables to electro- or magnetic variables; materials and devices exploiting the Seebeck effect for direct conversion of temperature gradients into electricity; new materials for more efficient solar energy conversion; electro-active polymers (EAP) for energy harvesting, to name but a few of the many energy harvesting techniques. Indeed, the field will continue to advance as long as new multifunctional materials are discovered. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews on the properties, modeling, and characterizations of materials and devices are all welcome.

Guest Editor

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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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