materials

IMPACT FACTOR 3.2 | Indexed in: PubMed | CITESCORE 6.4

an Open Access Journal by MDPI

Smart Materials and Devices for Energy Harvesting

Guest Editor:

Prof. Dr. Daniele Davino
Department of Engineering, University of Sannio, 82100 Benevento, Italy

Deadline for manuscript submissions:
closed (31 March 2021)

Message from the Guest Editor

Dear Colleagues,

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.

Assoc. Prof. Dr. Daniele Davino
Guest Editor

materials

IMPACT FACTOR 3.2 | Indexed in: PubMed | CITESCORE 6.4

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.
Journal Rank: JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
𝕏@Materials_Mdpi