nanoenergy advances

an Open Access Journal by MDPI

Advanced Nanomaterials and Devices for Energy Harvesting and Storage Applications

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Deadline for manuscript submissions:
closed (31 July 2023)

Message from the Guest Editors

Energy harvesting and storage is one of the most trending topics that falls under nanoscience and nanotechnology, with sub-topics ranging from energy conversion, storage, and sensing to a cleaner environment. The Special Issue on advanced nanomaterials and devices for energy harvesting and storage applications aims to publish original experimental and theoretical research on all aspects of energy-related research that uses nanomaterials and nanotechnology. The Editorial Board invites review articles, full-length articles, and communications.

Topics covered in the issue will include but are not limited to the following.

- Synthesis and characterization of nanostructured and nanoscale materials;
- Triboelectric nanogenerators;
- Piezoelectric nanogenerators;
- Thermoelectric and pyroelectric generators;
- Self-powered nanodevices/nanosystems;
- Piezotronics and piezophototronics;
- Nanosensors;
- Nanocatalysis;
- Optoelectronic devices;
- Photovoltaics;
- Photocatalysis;
- Nanomaterials for energy storage (materials for supercapacitors and batteries).