Special Issue

Advances in Nanomaterial-Based Sustainable Energy Harvesting Technologies

Message from the Guest Editors

This Special Issue aims to showcase cutting-edge research on sustainable synthesis techniques, eco-friendly nanomaterials, and their applications in energy harvesting systems. We invite researchers to contribute original research articles, comprehensive reviews, and perspective papers that explore innovative nanomaterial-based approaches to energy harvesting challenges. Topics of interest for publication include, but are not limited to, the following:

- Novel nanomaterials for photovoltaic applications;
- Thermoelectric nanomaterials and devices;
- Piezoelectric and triboelectric nanogenerators;
- Magnetoelectric energy harvesters and multiferroic materials;
- Nanomaterial-enhanced energy storage integration;
- Hybrid nanomaterial systems for multi-source harvesting;
- Green synthesis methods for energy harvesting nanomaterials;
- Environmental impacts and the lifecycle assessment;
- Advances in nanomaterial characterization for energy applications;
- Flexible and wearable nanomaterial-based energy harvesters;
- Self-powered nanosystems utilizing harvested energy.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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