Special Issue

The New Techniques for Piezoelectric Energy Harvesting: Design, Optimization, Applications, and Analysis

Message from the Guest Editors

The topics of interest for publications include but are not limited to:

- Advances in the design of energy harvesters, using FEM and hybrid methods;
- Broadband energy harvester techniques;
- Optimization techniques for piezoelectric energy harvesters;
- Nonlinear-vibration-based piezoelectric energy harvesting;
- Advances in materials for energy harvesting;
- Piezoelectric energy harvesting, surrogate models;
- Piezoelectric energy harvester applications in industry;
- Piezoelectric energy harvester applications in structural health monitoring (SHM);
- Advanced energy harvesting technologies for predictive maintenance;
- Piezoelectric energy harvester applications in advanced sensing technologies;
- Artificial-intelligence-based methods for piezoelectric energy harvesters;
- New sources of piezoelectric energy harvesters (acoustics, random vibrations, impact, simple harmonic).

Guest Editors

Dr. Wael A. Altabey

International Institute of Urban Systems Engineering (IIUSE), Southeast University, Nanjing 210096, China

Dr. Sallam A. Kouritem

Department of Mechanical Engineering, Faculty of Engineering, Alexandria University, Alexandria 21544, Egypt

Deadline for manuscript submissions

closed (10 February 2023)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/133948

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)

MDPI