

Special Issue

Kinetic Energy Harvesting at Low Frequency

Message from the Guest Editors

Vibration energy harvesters have recently attracted substantial attention given their potential application in self-powered systems. Among various vibration sources, kinetic energy at low frequency abundantly exists in ambient environment generated by human, animal, and natural activities. However, it is a big challenge to harvest energy from kinetic energy at low frequency, especially for human motion and ocean wave, because the harvested power is generally proportional to the square of frequency. Under this circumstance, many researchers have paid their efforts on this area; however, there are still some scarcities in the device's size, structure complexity, and energy conversion efficiency, which should be further improved. Accordingly, this Special Issue aims to showcase research papers, short communications, and review articles outlining recent progress and innovative approaches for kinetic energy harvesters at low frequency. The applications of energy harvester at low frequency, such as the self-powered sensing system, are also welcome and strongly encouraged. We look forward to receiving your contributions!

Guest Editors

Dr. Anxin Luo
Dr. Linchuan Zhao
Dr. Fei Wang

Deadline for manuscript submissions

closed (30 June 2023)



Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 7.1
Indexed in PubMed



mdpi.com/si/141672

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

[mdpi.com/journal/
micromachines](https://mdpi.com/journal/micromachines)





Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 7.1
Indexed in PubMed



[mdpi.com/journal/
micromachines](https://mdpi.com/journal/micromachines)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Nam-Trung Nguyen

Queensland Quantum and Advanced Technologies Research Institute,
Griffith University, West Creek Road, Nathan, QLD 4111, Australia

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2025).