



Piezoelectric Nanogenerators and Its Applications

Guest Editor:

Dr. Ayesha Sultana

Laboratory of Organic Electronics
(LOE), Department of Science
and Technology (ITN), Linköping
University, Bredgatan 33, 602 21
Norrköping, Sweden

Deadline for manuscript
submissions:

closed (20 July 2021)

Message from the Guest Editor

Dear Colleagues,

Using portable electronic devices in everyday human life is increasing day by day. To power these devices, we need to recharge the battery every time. There is lot of abundant energy which can be used by converting mechanical energy into electrical energy. Piezoelectric nanogenerators are particularly suitable for this, as they participate in this energy conversion process and help us to get enough power. In this process, electronic devices can be self-powered. Utilizing this advantage, piezoelectric nanogenerators can be used in self-powered mechanical energy harvesting, human health monitoring, human motion sensors, wearable sensors, gas sensors, pacemakers, pH sensors, electronic skin, and much more. There is lot of ongoing research by many research groups all over the world in this field which opens many new research paths if piezoelectric materials can be used to make hybrid composites with other material with different functionality. These composites are especially useful for multifunctional applications. This issue will focus on piezoelectric nanogenerators and their applications in many directions to contribute to and broaden this research field.





Editor-in-Chief

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.

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, dblp, and other databases.

Journal Rank: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q2 (*Mechanical Engineering*)

Contact Us

Micromachines Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/micromachines
micromachines@mdpi.com
[X@micromach_mdpi](https://x.com/micromach_mdpi)