



## Sustainable Materials for Energy and Environmental Applications

Guest Editors:

**Dr. Arun Thirumurugan**

**Prof. Dr. Sathish Kumar  
Kamaraj**

**Dr. R. Udayabhaskar**

**Dr. Ramesh Raju**

Deadline for manuscript  
submissions:

**closed (30 March 2024)**

### Message from the Guest Editors

Environmental sustainability fulfils our duty to safeguard and preserve the world's ecosystems and environmental assets to maintain health and welfare. The most efficient use of our natural resources, renewable energy generation, re-utilization and circular economic systems are important factors in a sustainable environment. The progress in the preparation of numerous nanomaterials including metals, metal oxides, 2D materials, carbon-based materials, and their composites through sustainable green methods and their efficient performance in various applications shows a promising development toward environmental sustainability. The major research areas included in this theme are materials science, energy production, energy conversion, energy storage, environmental science, microbiology, biotechnology, biochemistry, and agriculture science. This Special Issue's purpose is to discuss the recent development in the utilization of various nanomaterials for sustainable energy and environmental applications,





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Ai-Qun Liu

1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China  
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

## 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 (*Physics, Applied*) / CiteScore - Q2 (*Mechanical Engineering*)

## Contact Us

---

*Micromachines* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/micromachines](http://mdpi.com/journal/micromachines)  
[micromachines@mdpi.com](mailto:micromachines@mdpi.com)  
[X@micromach\\_mdpi](https://twitter.com/micromach_mdpi)