





an Open Access Journal by MDPI

# Piezoelectric Nanogenerators for Micro-Energy and Self-Powered Sensors

Guest Editors:

## Prof. Dr. Micky Rakotondrabe

National School of Engineering in Tarbes (ENIT), National Polytechnic Institute of Toulouse (INPT), University of Toulouse, 65000 Tarbes, France

# Prof. Dr. Rusen Yang

Academy of Advanced Interdisciplinary Research, School of Advanced Materials and Nanotechnology, Xidian University, Xi'an 710126, China

## Prof. Dr. Zhong Lin Wang

School of Materials Science and Engineering, Georgia Institute of Technology, Atlanta, GA 30332-0245, USA

Deadline for manuscript submissions:

closed (10 April 2021)

# **Message from the Guest Editors**

Energy harvesting consists of scavenging energy from the surrounding environment knowing that this energy would be "lost" if not scavenged. To scavenge small-scale kinetic energy, the use of a piezoelectric nanogenerator (PENG) is one of the most studied and developed approaches. Potential applications of PENG are numerous as it allows self-powered and autonomous nano-, micro-, mini-, or meso-scaled devices, for example, implantable electronics in biomedical applications, geotracers and animal tracking devices, wearable devices, multifunctional shoes, tires monitoring sensors, autonomous sensors in automotives, building monitoring sensors, and self-powered vibration damping devices in structures. Nowadays, we are witnessing a variety of attractive approaches in the emerging research and development for increasingly more efficient PENGs with more diversified applications. This Special Issue aims to present a collection of articles, including review papers, that cover the recent research and development on PENG techniques as well as their applications. Collectively, the papers in this issue will address fundamental, technological, and application aspects.













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

#### **Contact Us**