Special Issue

Piezoelectric Nanogenerators for Micro-Energy and Self-Powered Sensors

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.

Guest Editors

Prof. Dr. Micky Rakotondrabe
Prof. Dr. Rusen Yang
Prof. Dr. Zhong Lin Wang

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

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Message from the Editor-in-Chief

Micromachines (ISSN 2072-666X) is a forum for cutting-edge interdisciplinary research on micro and nanoscale science and technology. We emphasise the practical, real-world value of micro and nanotechnologies that will place *Micromachines* in a leading position among engineering and technology journals.

Editor-in-Chief

Prof. Dr. Nam-Trung Nguyen
Queensland Quantum and Advanced Technologies Research Institute, Griffith University, West Creek Road, Nathan, QLD 4111, Australia

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