

Special Issue

Advances of Triboelectric Nanogenerators for Energy Harvesting and Sensors Applications

Message from the Guest Editor

This Special Issue is enthusiastic about the application of the triboelectric nanogenerators (TENGs) for energy harvesting and self-powered sensors. TENGs are innovative energy-harvesting and active sensing technologies that show a notable capability for extracting biomechanical and environmental energy. For energy harvesting, the output electrical energy of the TENG is supplied to wearable/portable electronic devices and wireless sensors in the era of the Internet of Things (IoT). Various input mechanical energy sources, including human-body-induced motion, magnetic-field-induced motion, water, sound, and wind to be harvested by the TENG. The generated output electrical signal of the TENG is a sensing signal itself when an external mechanical energy source (pressing, touching, and moving of an object) is induced. The TENG-based sensor has flexibility, stretchability, excellent material compatibility, and low cost which is a unique applicant technology for AI (Artificial Intelligence). Also, it can easily be fabricated without the use of any expensive material or complex fabrication method.

Guest Editor

Dr. Md Salauddin

Department of Electronic Engineering, Kwangwoon University, 20 Kwangwoon-ro, Nowon-gu, Seoul 01897, Korea

Deadline for manuscript submissions

closed (20 January 2023)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 6.1



mdpi.com/si/94614

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

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





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 6.1



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



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (Fluid Flow and Transfer Processes)