Special Issue

Nanogenerators for Energy Harvesting and Self-Powered Sensing

Message from the Guest Editor

Nanogenerators, as an effective mechanical energy harvesting technology, provide a promising route to sustainable energy. Invented by Prof. Zhong Lin Wang in 2006 and 2012, the piezoelectric nanogenerator (PENG) and triboelectric nanogenerator (TENG) have shown their powerful ability for converting mechanical energy into electricity. Nanogenerators have found major applications in the fields of micro/nano power sources, active self-powered sensors, large-scale blue energy, and direct high-voltage power sources. This Special Issue on “Nanogenerators for Energy Harvesting and Self-powered Sensing” aims to cover recent achievements in the fields of piezoelectric nanogenerators, triboelectric nanogenerators, self-powered sensors, and self-powered systems.

Guest Editor

Dr. Jianjun Luo

1. Beijing Institute of Nanoenergy and Nanosystems, Chinese Academy of Sciences, Beijing 101400, China
2. School of Nanoscience and Engineering, University of Chinese Academy of Sciences, Beijing 100049, China

Deadline for manuscript submissions

closed (15 July 2023)

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/93289

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

mdpi.com/journal/electronics

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/journal/electronics

About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).