# Special Issue

# Latest Advances in Energy Harvesting Technologies and Applications

## Message from the Guest Editors

With the rapid evolution of fifth-generation (5G) wireless technology, numerous IoT systems can be implemented in various fields. These technologies critically rely on a large number of electronics and sensors which are linked together in an integrated network. The major challenge in developing these technologies is to power these portable electronic devices and widely distributed sensors. Currently, the popular resolution is to adopt electrochemical battery technology as a portable and on-site power source. However, traditional batteries often have a limited lifespan, are difficult to replace or recharge, and sometimes, abandoned batteries pose environmental risks. Therefore, the energy harvesting technologies that capture energies from the ambient environment and act as sustainable power sources can be a promising solution. Recently, considerable innovation has taken place in various energy-harvesting technologies to cope with the current challenges. Accordingly, this Special Issue aims to present new research works and review articles that are focused on the latest advances of energy harvesting technologies and their applications.

## Guest Editors

Dr. Md Salauddin

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

Dr. Muhammad Toyabur Rahman

Brain Science Institute, Korea Institute of Science and Technology, Seoul 02792, Korea

## Deadline for manuscript submissions

closed (31 October 2022)

**Electronics**

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/100800

*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).

MDPI