

Special Issue

Recent Developments and Emerging Trends of Bioinspired Electronics

Message from the Guest Editor

This Special Issue calls for contributions from researchers and innovators across various disciplines, including electronics, biology, materials science, physics, and engineering. We welcome theoretical, experimental, and review papers that delve into the principles, mechanisms, and applications of bio-inspired electronics. Topics of interest include, but are not limited to, the following:

Bio-inspired sensors and actuators. Electronics mimicking sensory organs. Electromagnetic field detection and applications. Energy-efficient electronic devices inspired by biological systems. Advanced materials and structures for bio-inspired electronics. Integration of bio-inspired electronics in medical and environmental applications.

We are particularly interested in contributions that address the challenges and opportunities in this dynamic field, highlighting safe and sustainable approaches. Given the rapid advancements and interdisciplinary nature of bio-inspired electronics, this Special Issue aims to bring together a diverse range of insights and foster collaboration among experts.

Guest Editor

Prof. Dr. Ilie C. Gebeshuber
Institute of Applied Physics, Vienna University of Technology, 1040 Vienna, Austria

Deadline for manuscript submissions

closed (31 March 2025)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/211634

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

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





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



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