

Special Issue

Advances in Electromagnetic-Based Devices and Systems for Biomedical Applications: From Diagnostic to Therapeutics

Message from the Guest Editors

This Special Issue invites researchers to contribute with original research articles as well as review articles, which focus on the advances in the analysis, design, development, and implementation of antennas for biomedical applications, including sensing, bio-monitoring, therapeutics, such as ablation or hyperthermia, and diagnostics, such as microwave or millimeter-wave imaging. Topics of interest include but not limited to:

- body-worn antennas
- flexible antennas
- textile antennas
- advanced techniques for numerical modeling
- dosimetry
- multiphysic simulations
- treatment planning
- manufacturing with innovative methods (e.g., 3D printing)
- in-body and on-body communication
- body channel
- design, simulation and characterization of RF and MW ablation applicator
- antennas for hyperthermia treatment
- monitoring
- microwave and millimeter-wave imaging

Guest Editors

Dr. Giacomo Muntoni

Dipartimento di Ingegneria Elettrica ed Elettronica, Università degli Studi di Cagliari, 09124 Cagliari, Italy

Dr. Rosa Scapatucci

Consiglio Nazionale delle Ricerche, Institute for Electromagnetic Sensing of the Environment, 328-80124 Napoli, Italy

Deadline for manuscript submissions

closed (31 December 2021)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/79275

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).