

Special Issue

Emerging Technologies in Optical Wireless Communications for Next-Generation Connectivity, Joint Communication and Sensing

Message from the Guest Editors

In this Special Issue, we aim to address the evolving role of OWC in hybrid RF/optical networks, where the synergy between optical and RF systems can address the unique challenges of dense urban environments, complex indoor settings, and secure networks. Topics of interest include, but are not limited to, the following:

- Channel modeling and characterization for indoor and outdoor optical wireless environments;
- Advanced modulation, coding, and synchronization techniques for OWC;
- Hybrid RF/optical network architectures and seamless integration strategies;
- AI- and ML-driven enhancements for optimization in OWC and JCAS;
- Energy-efficient and low-power design approaches for OWC systems;
- Joint communication and sensing (JCAS) applications in OWC;
- Security and privacy mechanisms for high-speed optical.

Guest Editors

Dr. Daniel Moreno

Institute for Technological Development and Innovation in Communications (IDeTIC), Universidad de Las Palmas de Gran Canaria (ULPGC), 35017 Las Palmas de Gran Canaria, Spain

Dr. Vicente Matus Icaza

Institute for Technological Development and Innovation in Communications (IDeTIC), Universidad de Las Palmas de Gran Canaria (ULPGC), 35017 Las Palmas de Gran Canaria, Spain

Dr. Victor Guerra

Wooptix S.L., La Laguna 38320, Spain

Deadline for manuscript submissions

15 July 2026



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 7.0



mdpi.com/si/224377

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 2.9
CiteScore 7.0



[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 guestedited 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 (Signal Processing)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.8 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2026).