

## Special Issue

# Advances in Optical Fiber Amplifiers: Techniques and Applications to Laser-Based Global Connectivity

### Message from the Guest Editors

This Special Issue addresses the latest up to date and advanced results on optical amplifiers, different techniques and performance to achieve the goal of amplifying communication signals for various applications like laser satellites and associated fiber optics components for FSO and fiber optics guided communications for space, aerial, terrestrial and underwater communication terminals. This Special Issue should be useful to the researchers in academia, industry and telecommunications service operators. Contributions are requested in the following topics (but are not limited to):

- Semiconductor optical amplifier for next generation optical networks including routing and signal processing;
- Photonic integrated semiconductor optical amplifier;
- Compact optical amplifier without significant excess noise for long range space and fiber communication;
- Next challenges of optical amplifier for space optical links including satellite, aerial, terrestrial and underwater terminals.

### Guest Editors

Prof. Dr. Arun K. Majumdar

Dr. Morio Toyoshima

Dr. Jan Latal

Prof. Dr. Srinivas Talabattula

### Deadline for manuscript submissions

closed (30 November 2023)



## Electronics

an Open Access Journal  
by MDPI

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/126438](https://mdpi.com/si/126438)

*Electronics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[electronics@mdpi.com](mailto: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 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 (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).