


Special Issue

Applications of Semiconductor Optical Amplifiers II

Message from the Guest Editor

This Special Issue will present new investigations, original results, novel solutions, breakthrough advances, technological implications and thorough conclusions, on one hand, and modern trends, open challenges and future prospects, on the other hand, supporting the long-term applicability of SOAs while at the same time constituting a reference point providing information, motivation and guidance for further efforts and innovations. **Keywords** 

- Direct signal amplification
- External modulation
- Optical pulse generation and manipulation
- All-optical signal processing
- All-optical computing
- All-optical combinational and sequential logic circuits
- Long-haul metro and access optical networks
- Converged telecommunications networks
- Radio-over-fiber systems
- Microwave photonics
- Optical switching
- Optical interconnects
- Optical multiplexing
- Optical access techniques
- Slow and fast light
- Optical test and measurement techniques
- Photonic integrated circuits
- Coherent lightwave systems
- Digital back-propagation
- Wideband signal transmission
- Theoretical description and numerical modeling
- Special active waveguide structures
- Neuromorphic computing and engineering

Guest Editor

Prof. Dr. Kyriakos E. Zoiros

Lightwave Communications Research Group, Department of Electrical and Computer Engineering, School of Engineering, Democritus University of Thrace, 67100 Xanthi, Greece

Deadline for manuscript submissions

closed (31 March 2021)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/25554

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

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





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)