Special Issue

Applications of Semiconductor Optical Amplifiers

Message from the Guest Editor

The technology of semiconductor optical amplifiers (SOAs) is a key enabler for the development, implementation, optimization, and overall establishment of photonic circuits, subsystems, and networks. Thanks to the remarkable advancements that have been achieved in the field, SOAs exhibit several important properties, such as strong nonlinearities, low power consumption, wavelength flexibility, large dynamic range, fast response, broadband and versatile operation, small footprint with potential for integration in single chips and affordable cost. These attractive characteristics have rendered SOAs core elements for the accomplishment of critical tasks in fundamental and system-oriented level. Thus, SOAs have been widely adopted as the principal technological platform for realizing diverse applications with high performance.

Keywords: Semiconductor optical amplifiers, applications, optoelectronic devices, active modules, fiber optics

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 July 2017)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/8056

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

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)