Special Issue

Advanced Semiconductor Lasers

Message from the Guest Editor

Semiconductor lasers are an important information light source and energy light source because of their small size, light weight, and high efficiency. The new generation of semiconductor laser technology is developing toward higher power, stronger brightness, higher speed, and lower power consumption, which effectively support and promote the development of Internet, 5G, big data, cloud computing, supercomputer, quantum technology, driverless, advanced manufacturing, and other industries. This Special Issue will focus on the advanced progress of mechanisms, materials, processes, and applications of semiconductor lasers. Potential topics include but are not limited to the following:

- High power broad-area semiconductor lasers and beam combining technology;
- Vertical-cavity surface-emitting lasers (VCSELs);
- Photonic crystal lasers;
- High-speed DFB lasers;
- High-power and narrow-linewidth DFB for silicon photonics;
- Quantum dot lasers.

Guest Editor

Dr. Cunzhu Tona

Changchun Institute of Optics Fine Mechanics and Physics, Chinese Academy of Sciences, Changchun 130033, China

Deadline for manuscript submissions

closed (30 November 2022)



Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



mdpi.com/si/122229

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

mdpi.com/journal/applsci





Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



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)

