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Advanced Semiconductor Lasers

Guest Editor:

Dr. Cunzhu Tong
Changchun Institute of Optics Fine Mechanics and Physics, Chinese Academy of Sciences, Changchun 130033, China

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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.

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Editor-in-Chief

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

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.

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Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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