

Special Issue

Solid State Lasers Materials, Technologies and Applications

Message from the Guest Editor

Despite the fact that more than half a century has already passed since the first demonstration of laser action in ruby crystal, solid-state lasers are still a hot research topic. Their unique versatility has made them irreplaceable tools in an astonishing variety of application. It is my pleasure to invite you to contribute to this Special Issue of *Applied Sciences*, which is aimed at presenting recent advances in the field of Solid State Lasers. We will focus on new materials for generation/amplification of ultrashort laser pulses, for nonlinear frequency conversion, and on the recent advances in solid-state laser technologies and applications. Our topics of interest include, but are not limited to:

- Diode pumped ultrafast solid state lasers and amplifiers
- Tunable and new wavelength lasers
- Optically pumped semiconductor lasers
- Microchip and compact lasers
- Ultrafast fiber lasers
- Solid state laser sources based on nonlinear frequency conversion schemes
- New materials for diode pumped ultrashort pulse generation/amplification

Guest Editor

Dr. Federico Pirzio

Department of Industrial Engineering, University of Pavia, via Ferrata 5, 27100 Pavia, Italy

Deadline for manuscript submissions

closed (31 October 2017)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/8295

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

mdpi.com/journal/

[applsci](https://doi.org/10.3390/applsci)





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)