



an Open Access Journal by MDPI

Ultrahigh Intensity Laser

Guest Editor:

Dr. Joachim Hein

Helmholtz-Institute Jena,
Fröbelstieg 3, 07743 Jena,
Germany

Deadline for manuscript
submissions:

closed (10 November 2021)

Message from the Guest Editor

This Special Issue is dedicated to all of advanced technologies as well as new developments and their underlying physics that lead to the highest laser pulse intensities for any kind of application. Moreover, since even applications in fundamental research demand powerful pulsed lasers with higher repetition rates, the topic of how to further increase the average power of femtosecond lasers will also be covered.

- large-aperture pulsed high-energy lasers
- ultrashort pulse laser technology
- new pulse compression schemes
- laser pulse contrast enhancement technologies
- post pulse compression
- advanced technologies for increasing pulsed laser repetition rates
- metrology for ultrashort pulse lasers
- ultra-broad-band laser amplifiers
- laser materials for high-energy or broad-band laser pulse amplification
- diode pumped high-energy lasers
- advanced flashlamp pumped solid-state lasers
- improvements in high-power laser diodes
- advanced laser cooling technologies
- ...



mdpi.com/si/56443



an Open Access Journal by MDPI

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.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

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

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)