IMPACT FACTOR
2.5

CITESCORE
5.3

Ultrafast and Nonlinear Laser Applications

Guest Editor:

Dr. Sergej Orlov
Center for Physical Sciences and Technology, Coherent Optics Laboratory, Sauletekio Ave. 3, Vilnius, Lithuania

Deadline for manuscript submissions:
20 November 2024

Message from the Guest Editor

This Special Issue aims to explore the cutting-edge developments in the field of laser technology, particularly focusing on the applications of ultrafast and nonlinear laser dynamics. "Ultrafast and Nonlinear Laser Applications" explores the cutting-edge advancements and versatile applications of ultrafast and nonlinear laser technologies across various disciplines. This Special Issue looks into the interplay between ultrafast lasers and nonlinear optical processes, and their roles in fields such as photonics, materials science, biomedicine, telecommunications, and beyond. From ultrafast spectroscopy and pulse shaping to nonlinear frequency conversion and quantum optics, this compilation aims to collect diverse works on innovative methodologies, theoretical insights, and practical implementations on the frontier of laser-based research. Contributions from leading experts provide a comprehensive overview of the latest breakthroughs and emerging trends in the field of ultrafast and nonlinear laser applications.

Special Issue

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