

Special Issue

Femtosecond Laser-Matter Interaction: Theory, Experiments and Applications

Message from the Guest Editor

Since the early works of Zewail, which included direct studies of molecular processes, femtosecond lasers have gained a large number of applications, including the use of high harmonics which has allowed the investigation of fast processes in molecules and solids applications to broaden toward atto- and zeptosecond time scales. The increasing intensity of femtosecond lasers allows the generation of high-temperature plasmas as well as the acceleration of electrons and ions toward relativistic velocities. Plasmas are possible sources of hot dense matter and that of ultrashort x-ray pulses. The Special Issue aims to be open to all applications of femtosecond laser-matter interactions.

Guest Editor

Prof. Dr. István B Földes

Wigner Research Centre for Physics, H-1121 Budapest, Konkoly-Thege ut 29-33, Hungary

Deadline for manuscript submissions

closed (25 December 2021)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/66008

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

mdpi.com/journal/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)