



Advances in Middle Infrared (Mid-IR) Lasers and Their Application

Guest Editors:

Dr. Tongyu Dai

Natl Key Lab Tunable Laser
Technol, Harbin Institute of
Technology, Harbin 150000,
Heilongjiang, China

Prof. Dr. Zhenxu Bai

Center for Advanced Laser
Technology, Hebei University of
Technology, Tianjin 300401,
China

Deadline for manuscript
submissions:

closed (30 August 2023)

Message from the Guest Editors

In the past twenty years, there has been a growing interest in middle infrared (mid-IR) lasers and their application, which has benefited from the development of laser technology and laser gain medium, including solid-state laser material and fiber. Moreover, these works have promoted the development of related technical applications such as sensing, remote sensing, high-resolution spectroscopy, and so on.

This Special Issue of the journal *Applied Sciences* focuses on the most recent advances in mid-IR lasers, from materials to laser sources and applications. It aims to bring together the latest developments in novel mid-IR lasers, as well as the application of mid-IR technology in spectroscopy, trace gas detection, remote sensing, optical microscopy, biomedicine, and other mid-IR laser application technologies. Aspirant authors are encouraged to submit their latest original research, as well as forward-looking review papers, to this Special Issue.





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), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (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](https://twitter.com/AtApplsci)