

## Special Issue

# Advances of Laser Technologies and Their Applications

### Message from the Guest Editor

Laser technology is widely used and has enabled significant progress in both laser technology itself and various laser application fields, such as industrial, medical, commercial, scientific research, and information. Lasers have continuously made breakthroughs in areas such as high power, narrow pulse width, wavelength tuning, and high beam quality, which also promoted technological progress in fields such as laser detection and processing. This Special Issue on “Advances of Laser Technologies and Their Applications” discusses the recent efforts and advances made for laser technology and its various applications. We welcome scientific contributions in this domain, including (but not restricted to) the following:

- Advanced laser technology;
- LiDAR, advanced technologies, and methods in the field of laser ranging and imaging;
- High-precision and high-sensitivity spectral detection technology;
- The advanced laser processing technologies, such as laser welding, laser machining interior contour, laser cutting, and laser carving;
- Advanced photodetectors;
- Advanced beam shaping technology;
- Data processing methods and technologies in the field of laser applications.

---

### Guest Editor

Prof. Dr. Rongwei Fan

National Key Laboratory of Laser Spatial Information, Harbin Institute of Technology, Harbin 150080, China

---

### Deadline for manuscript submissions

closed (20 May 2025)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/203780](https://mdpi.com/si/203780)

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

[mdpi.com/journal/applsci](https://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 )