

## Special Issue

# Advances in Optical and Optoelectronic Devices and Systems: 2nd Edition

### Message from the Guest Editors

Optoelectronic technology and optoelectronic devices are an important part of information technology in the 21st century; have played a vital role in civil, military, education, and scientific research, as well as in other fields. In this Special Issue, we invite submissions exploring cutting-edge research and recent advances in optoelectronic devices and systems, from laser materials and laser sources to novel optoelectronic devices and applications. Potential topics include, but they are not limited to, the following:

- Laser materials and optical films: new laser materials, optical fibers, nonlinear crystals, optical and functional films, damage mechanisms, etc.
- Lasers, optical amplifiers, and laser optics: laser oscillators, laser amplifiers, optical resonators, nonlinear devices, high-power lasers, and beam propagation, etc.
- Novel optoelectronic devices
- Applications of optoelectronic devices and systems: active electro-optical sensing, laser communication, laser-assisted material processing, new systems and concepts of laser detection, etc.

---

### Guest Editors

Dr. Xudong Li

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

Dr. Renpeng Yan

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

---

### Deadline for manuscript submissions

30 September 2025



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



[mdpi.com/si/205657](https://mdpi.com/si/205657)

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

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





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



[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, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)