

## Special Issue

# Optical Imaging and Sensing: From Design to Its Practical Use

### Message from the Guest Editor

Various sensors and new imaging technologies are driving information technology advancements. This poses new challenges to the advancement of optical sensing and imaging and software solutions. Therefore, this Special Issue intends to present new ideas and experimental results in the field of high-performance optical sensing and imaging, from design to practical use. Research on high-performance optical sensing and imaging includes, but is not limited to, ultra-violet, visible and infrared sensing and imaging, machine vision, automatic target detection, image processing and analysis, 3D imaging, artificial intelligence and computational imaging, frontier issues in optical imaging and sensing, and other related technologies.

---

### Guest Editor

Dr. Junwei Min

State Key Laboratory of Transient Optics and Photonics, Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences, Xi'an 710119, China

---

### Deadline for manuscript submissions

20 April 2025



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



[mdpi.com/si/177948](https://mdpi.com/si/177948)

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

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





# 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), Inspec, CAPIus / SciFinder, and other databases.

#### Journal Rank:

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