

## Special Issue

# Advanced Laser-Material Interaction and Its Characterization

### Message from the Guest Editors

We are pleased to announce this call for submissions to a Special Issue of *Applied Sciences*, MDPI. The recent advances in lasers are helping to develop leading technologies in the high-tech industry. Laser technologies such as single-mode high beam quality, ultra-short pulsed lasers, and multi-core beam shaping offer new and unique solutions to applied science or engineering where traditional methods have been limited. In addition to laser technology, studies have also been conducted on material characterization using computer simulation, chemical and physical degradation, and metallic analysis. In this Special Issue, technical as well as scientific articles are expected to share a variety of advanced solutions for researchers in science and engineering using state-of-the-art laser-material interaction and its characterization.

---

### Guest Editors

Prof. Joohan Kim

Department of Mechanical & Automotive Engineering, Seoul National University of Science and Technology, Dasan-Kwan 301, 232 Gongneung-ro, Nowon-gu, Seoul, Korea

Prof. Dr. Haewoon Choi

Laboratory for Advanced System Engineering and Research, Keimyung University, Daegu, Republic of Korea

---

### Deadline for manuscript submissions

closed (31 January 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/69060](https://mdpi.com/si/69060)

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

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

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





# 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 )