



an Open Access Journal by MDPI

## Advanced Materials in Photoelectrics and Photonics

Guest Editors:

### **Prof. Dr. Fu-Der Lai**

Institute of Photonics  
Engineering, National Kaohsiung  
University of Science and  
Technology, Kaohsiung 824005,  
Taiwan

### **Prof. Dr. Yilin Yang**

Department of Electronic  
Engineering, National Kaohsiung  
Normal University, Kaohsiung  
82444, Taiwan

### **Prof. Dr. Wen-Ching Hsieh**

Department of Semiconductor  
and Electro-Optical Technology,  
Minghsin University of Science  
and Technology, Xinfeng 30401,  
Taiwan

Deadline for manuscript  
submissions:

**20 December 2024**

### **Message from the Guest Editors**

Optoelectronics and photonics, at the forefront of modern technological innovation, leverage light-matter interactions to develop solutions across a broad spectrum of applications—from energy generation to communication systems.

Authors are encouraged to submit original research articles, reviews, and case studies that discuss significant advances in material science as applied to solar energy materials, LEDs, lasers, and sensors. Research contents include manufacturing (including material growth, epitaxial processes, coatings, etc.), simulation (including theory, calculation process, modeling, etc.), analysis and application of materials or materials in devices, etc.

Submissions should clearly articulate the novel aspects of the research and its potential impact on the field of optoelectronics and photonics. Comparative studies that highlight improvements over existing solutions are highly encouraged.

This Special Issue seeks to compile a comprehensive overview of the latest research and developments in the field, aiming to inspire further research and practical applications.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

## 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), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:** JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

## Contact Us

*Materials* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)