



*materials*



an Open Access Journal by MDPI

## Mechanics and Analysis of Advanced Materials and Structures

Guest Editors:

**Prof. Dr. Sanichiro Yoshida**

Department of Chemistry and  
Physics, Southeastern Louisiana  
University, SLU 10878,  
Hammond, LA 70402, USA

**Dr. Giovanni Pappalettera**

Dipartimento di Meccanica,  
Matematica e Management,  
Politecnico di Bari, Via Orabona  
4, 70125 Bari, Italy

Deadline for manuscript  
submissions:

**closed (10 November 2022)**

### Message from the Guest Editors

This Special Issue focuses on advancements in the design and characterization of materials and structures. New material and structural designs often require novel techniques of characterization. Even for the same material, microscopic and macroscopic structures need different analytical methods. Material characterization based on novel analytical techniques leads to ideas of new material and structural design. In this area, interdisciplinary approaches are often useful. Contributions from various scientific and engineering communities are welcome. Similarly, studies on various materials and structures such as biochemical compounds and three-dimensionally printed objects will be of great interest. As for analytical techniques, while a variety such as optical, acoustic, and other sensing techniques will be considered, studies using multiple techniques are especially welcome. Papers on both experimental and theoretical research are welcome. Conceptual studies will also be considered provided the outcome is supported by logical and scientifically solid arguments.



[mdpi.com/si/51497](https://mdpi.com/si/51497)

# Special Issue



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 - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

## Contact Us

Materials Editorial Office  
MDPI, St. Alban-Anlage 66  
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)