

Special Issue

Design, Optimization, and Mechanical Applications of Smart Materials and Structures

Message from the Guest Editor

This Special Issue seeks to compile cutting-edge research and expand the horizons of smart materials and structures. Topics of interest include (but are not limited to): mechanical performances of novel mechanical metamaterials, experiments of novel mechanical metamaterials, vibration suppression and noise reduction of acousto-vibrational metastructures, sound/elastic wave propagation and tunability of acoustic/elastic metamaterials, wave propagation and active/passive control of electric/piezomagnetic metamaterials, anti-impact and buffering performances of mechanical metamaterials, innovative design and performance prediction of smart materials and structures, design and optimization of multi-functional materials and structures, as well as the mechanical applications of smart materials and structures.

Guest Editor

Dr. Chunlei Li

Department of Engineering Mechanics, South China University of Technology, Guangzhou, China

Deadline for manuscript submissions

30 November 2025



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/240213

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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





Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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



About the Journal

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.

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

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 and Metallurgical Engineering) /
CiteScore - Q1 (Condensed Matter Physics)