

Special Issue

Acoustic Materials: From Fundamental Design to Advanced Applications

Message from the Guest Editors

This Special Issue aims to gather cutting-edge research and developments in the field of acoustic materials. The issue welcomes original contributions and comprehensive reviews that explore materials engineered to absorb, insulate, or otherwise control acoustic wave propagation across a wide frequency range. Topics of interest include fundamental material design, modeling and simulation techniques, experimental characterization, and real-world applications. Contributions may address traditional porous materials, fibrous media, acoustic metamaterials, and hybrid or multifunctional composites and systems. Studies focusing on sustainable and eco-friendly solutions for noise reduction are particularly encouraged. We seek to highlight interdisciplinary approaches that bridge theory, modeling, and experimental validation, offering insights into the acoustic behavior of materials in various configurations and environments. This issue serves as a platform for researchers, engineers, and practitioners working in materials and acoustics engineering to share knowledge and foster innovation in the development of advanced acoustic materials.

Guest Editors

Prof. Dr. Luís Godinho

Departamento de Engenharia Civil, Universidade de Coimbra, 3030-788 Coimbra, Portugal

Dr. Paulo Amado-Mendes

Departamento de Engenharia Civil, Universidade de Coimbra, 3030-788 Coimbra, Portugal

Deadline for manuscript submissions

20 June 2026



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/247409

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)