

Special Issue

Band Gaps in Phononic Crystals and Metamaterials in Static and Moving Medium

Message from the Guest Editors

Phononic crystals, aperiodic structures or metamaterials allow for the development of devices for wave control, environmental noise reduction, focusing and collimation, and even earthquake protection.

Contributions should focus on new theoretical or experimental achievements in the field of structures allowing the control of mechanical waves. Importantly, the influence of the environment in which phononic structures function should not be ignored—for example, acoustic waves propagating in the air or in fluids are influenced by the speed of the medium or turbulent disturbances occurring during interactions with obstacles, which has a significant impact on the occurrence and frequency range of the phononic band gaps.

It is our pleasure to invite you to submit a manuscript for this Special Issue related to experimental and numerical studies of wave phenomena in phononic structures. Full papers, short communications, and reviews are all welcome.

Guest Editors

Dr. Sebastian Garus

Department of Mechanics and Fundamentals of Machinery Design,
Czestochowa University of Technology, ul. Dąbrowskiego 73, 42-201
Czestochowa, Poland

Dr. Wojciech Sochacki

Department of Mechanics and Fundamentals of Machinery Design,
Czestochowa University of Technology, ul. Dąbrowskiego 73, 42-201
Czestochowa, Poland

Deadline for manuscript submissions

closed (31 May 2022)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/77877

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)