

Special Issue

Advanced Material Science and Engineering: Metamaterials, Material Characterizations, and Sensing Techniques

Message from the Guest Editors

Recent advances in material science, particularly in the field of nanotechnology, have triggered significant research progress. Attributed to the high surface periodic structures arising from nanostructured materials, they are shown to exhibit unusual physicochemical properties. An improved performance was achieved when rationally designed nanostructured materials were carefully employed for sensing applications. Metamaterials are a novel type of functional material based on unique patterns or structures that enable them to interact with light and other sources of energy in ways that are not found in natural materials. The internal structure determines the properties of these artificially engineered composite materials. This Special Issue aims to showcase recent developments, advances, and new frontiers in advanced material science and engineering: metamaterials, material characterizations, and sensing techniques. We also encourage original research and review articles that apply ideas and techniques from different areas to understand the problems and challenges in advanced material technology.

Guest Editors

Dr. Ahmed Jamal Abdullah Al-Gburi

Centre for Telecommunication Research and Innovation (CeTRI),
Faculty of Electrical and Electronic Engineering Technology (FTEE),
Universiti Teknikal Malaysia Melaka (UTeM), Taman Tasik Utama, Ayer
Keroh 75450, Malacca, Malaysia

Prof. Dr. Zahriladha Zakaria

Center for Telecommunication Research and Innovation (CeTRI),
Faculty of Electronics and Computer Engineering, Universiti Teknikal
Malaysia Melaka, Jalan Hang Tuah Jaya, Melaka 76100, Malaysia

Deadline for manuscript submissions

closed (20 October 2023)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/152321

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)