Special Issue

Multifunctional Fiber Materials and Composites: Synthesis, Characterization and Applications

Message from the Guest Editor

Materials classified as multifunctional fibrous materials and composites are often capable of combining very different specific properties and functions, such as mechanical strength, elasticity and lightness, sensitivity to physical, chemical or environmental irritants, flame and high-temperature resistance, thermal and electrical conductivity, as well as their insulating properties and the ability to attenuate electromagnetic radiation and store energy. The wide range of properties of these materials indicates their great potential for applications in mechanical engineering, aerospace, healthcare, energy storage, and other fields. The desired properties of multifunctional fibrous materials and composites are achieved by carefully selecting the materials and components used in their production and by using appropriate production methods. We welcome papers on diverse materials, with special interest in multifunctional fibrous materials and their custom-made design, given their growing significance in materials science, nanotechnology, and smart manufacturing.

Guest Editor

Dr. Remigijus Ivanauskas

Faculty of Chemical Technology, Department of Physical and inorganic Chemistry, Kaunas University of Technology, Kaunas, Lithuania

Deadline for manuscript submissions

20 March 2026

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/246836

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

mdpi.com/journal/materials

MDPI

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

MDPI

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)