Special Issue

Preparation, Properties and Applications of Biocomposites

Message from the Guest Editors

The growing demand for sustainable and eco-friendly materials has driven significant advancements in the field of biocomposites, which combine natural fibers or biopolymers with synthetic or biodegradable polymer matrices. These materials offer remarkable potential in reducing environmental impact while maintaining or even enhancing mechanical, thermal, and functional properties. This Special Issue, "Preparation, Properties and Applications of Biocomposites", aims to highlight cutting-edge research on the design, processing, characterization, and practical applications of biocomposites. We invite contributions exploring novel fabrication techniques, performance optimization, lifecycle assessment, and innovative uses in industries such as packaging, automotive, construction, biomedical engineering, and electronics. By bringing together interdisciplinary research, this Special Issue seeks to foster discussions on overcoming challenges such as interfacial adhesion and compatibility, moisture and fire resistance, antibacterial and anti-fungal properties, scalability, and cost-effectiveness.

Guest Editors

Prof. Dr. Guowei Chen

National-Provincial Joint Engineering Research Center of Electromechanical Product Packaging, Nanjing Forestry University, Nanjing 210037, China

Dr. Michael Snowdon

Automotive and Surface Transportation, National Research Council Canada, Winnipeg, MB, Canada

Deadline for manuscript submissions

23 April 2026



an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/255598

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

mdpi.com/journal/materials





an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 6.4 Indexed in PubMed





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

 Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
 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)