Special Issue

Fibre-Reinforced Composite Materials: Properties and Applications

Message from the Guest Editors

The use of fibre-reinforced polymer (FRP) composites in construction has advanced significantly, thanks to ongoing innovations in material systems and engineering applications. While most FRP composites use carbon or glass fibres and are still based on thermoset resins, new developments in FRP systems continue to improve their performance, durability, and sustainability. These materials offer proven advantages, such as enhanced corrosion resistance, longer lifespan, and reduced maintenance costs, particularly in harsh environments. FRP composites are increasingly used in prestressed concrete applications, enabling more efficient and durable designs. Additionally, the growing focus on recyclability and sustainability is driving new research on eco-friendly FRP systems, aligning with the principles of the circular economy. This Special Issue highlights the latest advancements in fibre-reinforced composite materials, emphasizing innovation and their proven benefits for the construction industry.

Guest Editors

Dr. José Manuel De Sena Cruz
Department of Civil Engineering, University of Minho, 4800-058 Guimarães, Portugal

Dr. Luís Correia
Department of Civil Engineering, University of Minho, ISISE, ARISE, Guimarães, Portugal

Deadline for manuscript submissions

20 September 2026

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/246912

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

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

About the Journal

Message from the Editorial Board

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.

Editors-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

Prof. Dr. Yuguang Ma
State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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)

MDPI