Special Issue

Advanced Fiber-Reinforced Composites: Design, Properties and Applications

Message from the Guest Editors

Various composite materials are used in modern science and engineering fields. For electronic, medical, aerospace, energy or civil engineering applications, the most important materials are fiber-reinforced composites, strengthened by carbon fiber, glass fiber, aramid fiber, plant fiber, etc. Current applications in modern science and engineering require the design of material structures, design of material functions, analysis of various material properties, such as mechanics, electromagnetism, biology, chemistry, analysis of composites structures, including joint, assembly, environmental tolerance, etc. The aim of this Special Issue is to understand the basic principles of design processes in advanced fiber-reinforced composites, the analysis methods of material properties and application in various science and engineering fields. A thorough understanding of how to design, analyze and apply the fiber-reinforced composites can further promote the development of fiber-reinforced composites.

Guest Editors

Dr. Joseph Domblesky

Dr. Kai Jin

Dr. Zhenchao Qi

Deadline for manuscript submissions

closed (20 September 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 5.8
Indexed in PubMed

mdpi.com/si/97366

Materials
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 3.1
CiteScore 5.8
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 - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (Condensed Matter Physics)