



an Open Access Journal by MDPI

Advanced Composite Material Design and Manufacturing Technology for Aerospace Engineering

Guest Editors:

Dr. Jiangbo Bai

Prof. Dr. Jianwen Bao

Prof. Dr. Yan Shi

Dr. Changchuan Xie

Dr. Nicholas Fantuzzi

Dr. Dayong Hu

Deadline for manuscript
submissions:

closed (20 April 2023)

Message from the Guest Editors

Dear Colleagues,

Advanced composites have many advantages, such as a high specific strength, high specific modulus, fatigue resistance, light weight, corrosion resistance and strong design, etc. They have been widely investigated and applied in the aerospace field.

In this Special Issue, we focus on advanced composite design and manufacturing technology for aerospace engineering, mainly including materials, mechanics, manufacturing technology, test characterization, advanced equipment and engineering applications, etc.

Potential topics for submissions include, but are not limited to:

- Materials design, such as fiber, resin, interface, functional materials, etc.;
- Mechanical design, such as constitutive modeling, multi-scale modeling, stiffness, static strength, fatigue, buckling stability, progressive damage behavior, etc.;
- Manufacturing technology, such as autoclave, RTM, additive manufacturing, intelligent manufacturing, etc.;
- Advanced equipment, such as automatic molding, additive manufacturing, test characterization, nondestructive testing, etc.;
- Engineering applications, such as composite products, high performance materials, design and evaluation methods, etc.



mdpi.com/si/98842

Special Issue



materials

Indexed in:
PubMed

CITESCORE
5.8

IMPACT
FACTOR
3.1

an Open Access
Journal by MDPI

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)

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.

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)