



## Advanced Composite Material Design and Manufacturing Technology for Aerospace Engineering (2nd Edition)

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:

**20 July 2024**

### 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. 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, multiscale 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.





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

## 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.

## 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*)

## Contact Us

---

Materials Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)