



Advanced Composite Materials: Theory, Design and Applications

Guest Editor:

Prof. Dr. Luigi Solazzi

Department of Mechanical and
Industrial Engineering, University
of Brescia, Brescia, Italy

Deadline for manuscript
submissions:

closed (20 September 2022)

Message from the Guest Editor

Dear Colleagues,

Composite materials are widely used in various areas of science. Especially in the last several decades, the use of composite materials has seen a significant increase and application in sectors that were unthinkable a few years ago. This Special Issue aims to focus on research relating to the application of composite materials on three different points. These are: theoretical developments, especially with reference to materials and composite performance; different criteria design (considering also aspects related to static, fatigue, and fracture phenomena, for example); and real and innovative applications (a very important aspect related, for example, to the junction of composite materials with other materials).

This Special Issue will cover the following topics (but not limited to these):

- Design by composite material;
- Static, fatigue, and fracture performance;
- Damage criteria;
- Experimental tests;
- Lightweighting components;
- Joint design;
- Manufacturing processes;
- Innovative applications.
- Theoretical studies (analytical and numerical).





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 - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
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)