Special Issue

Advances in Novel Composites and Their Mechanical Properties

Message from the Guest Editors

Dear Colleague, An increasingly demanding market for materials optimized to very specific applications has driven a voracious development of them. In particular, the development of new composite materials has undergone vertiginous evolution in recent decades. There is a wide variety available, not only of combinations of materials that form composite materials, but also of new designs, structures and manufacturing processes. The aim of this Special Issue is to highlight recent advancements related to new composite materials, designs, manufacturing processing and postprocessing technics, along with their mechanical properties. We encourage analytical, numerical and application studies to be submitted to this Special Issue. The main topics of this Special Issue may cover but not be limited to the following topics:

- dynamic and static behavior of materials;
- composite and multifunctional materials;
- biocomposites;
- dynamic fracture mechanics;
- fatigue;
- mechanical instabilities;
- composite manufacturing pre-processing, processing and post-processing.

Guest Editors

Dr. Jose Díaz-Álvarez

Department of Mechanical Engineering, University Carlos III of Madrid, Getafe, 28903 Madrid, Spain

Dr. Antonio Díaz-Álvarez

Department of Mechanical Engineering, University Carlos III of Madrid, 30 Avida. de la Universidad, 28911 Leganés, Madrid, Spain

Deadline for manuscript submissions

closed (31 October 2021)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/77654

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