Special Issue

Metal and Polymer Matrix Composites: Processing and Applications

Message from the Guest Editor

Design, manufacturing and the definition of new applications for metal and polymer matrix composites are high perspectives for modern materials science. MMC and PMC materials have unique advantages over monolithic materials, such as high strength, high stiffness, long fatigue life, low density, and adaptability to the intended function of the structure. To obtain metal, ceramics and polymer matrix composites, it is necessary to solve important fundamental problems concerning the evolution of the hierarchical structure of materials during advanced technological processing. An important role in the process of material creation concerns the simulation of structural and functional properties by designing structures at atomic and molecular levels. Hot topics to be covered by the Special Issue:

- Composite materials on the basis of metals, alloys and ceramics
- Advanced technologies of composite materials manufacturing including 3D printing
- Testing of composites, peculiarities of new methods
- Organic spintronics
- Various applications of advanced MMC and PMC materials

Guest Editor

Dr. Igor V. Shishkovsky
Skolkovo Institute of Science and Technology, Moscow, Russia

Deadline for manuscript submissions

closed (30 April 2021)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/21274

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/materials

MDPI

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
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 - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)