



Advanced Composites: From Materials Characterization to Structural Application

Guest Editor:

Dr. Viktor Gribniak

Vilnius Gediminas Technical
University, Sauletekio av. 11, LT-
10223 Vilnius, Lithuania

Deadline for manuscript
submissions:

closed (30 September 2020)

Message from the Guest Editor

The structural application prospective of innovative materials requires the development of a new concept for structural design related to the development of materials with mechanical properties properly tailored for construction purposes. In fact, this approach is opposite to the existing practice where design solutions are related to the utilization of existing materials, which generally have imperfect physical properties. The current trends in material engineering are enable to incorporate different topics into the scope of this activity. For instance, nanoparticles can be used to modify the structure of materials, fibrous reinforcement is suitable to improve the mechanical properties of structural composites, manufacturing technology may incorporate 3D printing, and so on. This Special Issue is focused on the identification of fundamental relationships between the structure of advanced composites and the corresponding physical properties. The aim of this Issue is to combine the innovative achievements of the experts in the fields of materials and structural engineering to raise the scientific and practical value of the gathered results of interdisciplinary research.





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)