Special Issue

Polymer Composites: Microstructural, Thermal and Mechanical Properties

Message from the Guest Editor

In recent decades, the increasing demand for high-performing materials and structures has stoked the interest in the development and use of polymer composites in a wide range of industrial fields. These materials have the peculiarity to meet diverse design requirements with significant weight savings as well as a high strength-to-weight ratio. However, despite these strengths, some features such as the difficult prediction of durability under structural loads still limit their use. This consideration is more true for eco-friendly composites more recently developed in light of environmental concerns aimed at preserving fossil resources in favor of renewable ones. Their increased attraction is witnessed by numerous papers dealing with composites from biomatrices and/or reinforced with natural fibers in place of synthetic ones, but this trend is not yet reflected in a relevant range of industrial applications because of many challenges. This Special Issue aims at collecting recent advancements of polymer composites.

Guest Editor

Dr. Pietro Russo

Institute for Polymers, Composites and Biomaterials, National Research Council, Via Campi Flegrei 34, 80078 Pozzuoli, NA, Italy

Deadline for manuscript submissions

closed (10 October 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.0
Indexed in PubMed

mdpi.com/si/74774

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 7.0
Indexed in PubMed

mdpi.com/journal/materials

About the Journal

Message from the Editorial Board

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.

Editors-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

Prof. Dr. Yuguang Ma
State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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)