Special Issue

Advanced Machining Technology for Modern Engineering Materials (2nd Edition)

Message from the Guest Editors

Advances in material science have given an unprecedented boost in engineering. Materials with exceptional properties (mechanical, thermal, and chemical) have been developed, including super and memory alloys, composite materials, and biocompatible materials. At the same time, the machining industry must follow these advances, coming up with new machining methods and processes, as well as effective ways of studying those materials at the macro-, meso-, and microscale. Therefore, the current Special Issue aims to provide a forum for scientists' research on the machinability and the mechanical properties of advanced materials. We will host experimental and/or computational studies concerning conventional, non-conventional, and hybrid machining, and additive methods of advanced materials. Additionally, research about advanced techniques in the study of materials, which give an inside view and a better understanding of the fundamental mechanisms, are welcome. Finally, review articles about the topics mentioned above are encouraged.

Guest Editors

Dr. Muthuramalingam Thangaraj

Dr. Beata Leszczyńska-Madej

Dr. Angelos P. Markopoulos

Dr. Panagiotis Karmiris-Obratański

Deadline for manuscript submissions

closed (20 September 2024)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/196578

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

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)