Special Issue

Research on Mechanical Properties of High Temperature Materials in Extreme Environments

Message from the Guest Editors

We are pleased to invite you to contribute to this Special Issue of *Materials* (IF 3.2) focused on the Mechanical Properties of High-Temperature Materials Operating under Extreme Environments. This is a research area of growing importance across aerospace, nuclear, automotive, and energy sectors. As global demands increase for materials that can endure harsh operating conditions (such as high temperatures, corrosive atmospheres, radiation, and mechanical stress), the development and characterization of such advanced materials become critically important for structural integrity, safety, and long-term performance. This Special Issue aims to bring together cutting-edge research that aligns with the journal's focus on advanced materials science and engineering. Contributions should address fundamental mechanisms, modeling approaches, experimental investigations, or technological applications that fall within the journal's scope of materials performance and reliability.

Guest Editors

Prof. Dr. Sayyad Zahid Qamar

Prof. Dr. Tasneem Pervez

Dr. Farooq K Al-Jahwari

Deadline for manuscript submissions

20 February 2026

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/248325

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)