



an Open Access Journal by MDPI

Mechanical Behaviour of Advanced Materials and Structures under Impact Loading

Guest Editors:

Dr. Cunxian Wang

School of Aeronautics,
Northwestern Polytechnical
University, Xi'an 710072, China

Dr. Mingshi Wang

School of Aerospace Engineering,
Xi'an Jiaotong University, Xi'an
710049, China

Prof. Dr. Qiong Deng

School of Aeronautics,
Northwestern Polytechnical
University, Xi'an 710072, China

Deadline for manuscript
submissions:

closed (20 April 2024)

Message from the Guest Editors

Dear Colleagues,

This Special Issue is concerned with the responses of structures and materials subjected to impact and high-rate loading. Scientifically sound and well-organized analytical, computational, and experimental studies are being solicited. Subjects relevant to this Special Issue include the following topics and those associated with them: the behaviour and failure of structures and materials under impact loading, the structures and materials used to protect and absorb impact loading, dynamic behaviour, and the failure of materials including plasticity and fracture, structural crashworthiness, high-rate mechanical and forming processes, impact and high-rate loading/measurement techniques and their applications, mesoscale modelling, and constitutive models for materials under impact loading.

Manuscripts submitted for publication will be subjected to stringent peer review and assessed for their contribution to scientific understanding of both these phenomena and the responses of structures and materials to impact and high-rate loading.



mdpi.com/si/186712



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 and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
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)