



Recent Advances in Dynamic Mechanical Properties of Materials and Structures

Guest Editors:

Dr. Shujian Yao

Frontier Science Center for
Extreme Mechanics and Energy,
Central South University,
Changsha 410072, China

Dr. Minzu Liang

College of Science, National
University of Defense
Technology, Changsha 410073,
China

Dr. Kuijian Yang

Department of Applied
Mechanics & Engineering, Sun
Yat-sen University, Shenzhen
510275, China

Deadline for manuscript
submissions:

closed (31 March 2024)

Message from the Guest Editors

Recent advances in dynamic mechanical properties of materials and structures have provided possibilities for many novel applications of smart materials and structures in highly demanding engineering fields. This Special Issue will publish scientific papers and reviews related to the dynamic behavior of materials and structures, from their characterization to their application in industrial problems, such as their impact, blast and high-rate loading. Works that result in fundamental insights that benefit engineering design to resist strong dynamic loading are relevant to this Special Issue. Scientifically designed and documented experimental studies that advance knowledge in the dynamic mechanical properties of materials subjected to dynamic loading are of high relevance and interest. On this basis, the experimental studies should be accompanied by analysis of the experimental data and appropriate conclusions. The incorporation of theoretical analysis and/or numerical simulations to support the experimental findings will enhance the depth and quality of the research reported and make it more compelling.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and
Natural Resources, Ohio State
University, Columbus, OH 43210,
USA

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [GeoRef](#), [Inspec](#), [RePEc](#), [CAPlus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](#)