

Special Issue

Dynamic Behavior of Advanced Materials and Structures

Message from the Guest Editors

The dynamic behavior of materials and structures is a vibrant branch of mechanics and materials science that has important application background in aerospace, traffic engineering and many other industry fields. With the rapid development of manufacturing technology in recent years, a series of advanced materials and structures with excellent properties have emerged, and their nonlinear mechanical behavior as well as multi-scale failure mechanism under impact loads have attracted extensive attention. The scope of this Special Issue includes theoretical, numerical and experimental research on the dynamic mechanical behavior of additively manufactured metamaterials, high-entropy alloys, amorphous alloys as well as some other advanced engineering materials and structures within a wide range of strain rates. The Issue's scope also includes investigations on the multiscale design for protective properties of materials and structures under intense loading.

Guest Editors

Prof. Dr. Weidong Song
Dr. Lijun Xiao
Dr. Xianfeng Yang

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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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

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