Special Issue

Mechanical Properties and Physical Functions of Materials/Structures

Message from the Guest Editors

The development of novel new materials/structures has played an important role in advancing the relevant science and engineering fields. For example, the emergence of new carbon-reinforced composites has significantly increased the performance of new-generation airplanes. The additive manufacturing technique has enabled the design and production of many novel new structures and brought the development of new materials/structures to the frontier of science again. The mechanical properties and physical functions of materials/structures are a crucial part in this development. Therefore, this Special Issue focuses on the development of new materials/structures, the study of their mechanical properties and physical functions, and the exploration of their applications. The topics of interest include but are not limited to:

- Cellular materials/structures
- Metamaterials
- Lattice structures
- Smart composite materials/structures
- Functional materials
- Nanomaterials
- Biomaterials

Guest Editors

Dr. Hanxing Zhu
School of Engineering, Cardiff University, Cardiff, UK
Dr. Yongtao Lyu
Department of Engineering Mechanics, Dalian University of Technology, Dalian, China

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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 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

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