Special Issue

Modern Experimental and Measurement Methods for Mechanics of Materials

Message from the Guest Editors

With the development of modern experimental techniques, the static and dynamic, and macro- and micro- mechanical properties of materials have been extensively studied. Various testing techniques have been developed and different types of loading have been investigated. In addition, various non-contact optical methods have been developed for study on mechanical properties of materials, including both interferometric and non-interferometric methods. The interferometric methods are more suitable for using in the laboratory, which have the advantages of high precision and high resolution. Additionally, the non-interferometric methods have the merits of low environmental vulnerability, easy processing, and simple specimen preparation. The Special Issue invited contributions including but not limited to the following:

- New testing techniques for mechanics of materials;
- New applications of the existing testing techniques for mechanics of materials;
- New measurement methods for mechanics of materials;
- New applications of the existing methods for mechanics of materials;
- Experimental data analysis for mechanics of materials;
- Nondestructive testing for materials.

Guest Editors

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Deadline for manuscript submissions

closed (30 May 2024)

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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.

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