Special Issue

Mechanical Behavior of Advanced Engineering Materials (2nd Edition)

Message from the Guest Editors

In recent years, there have been significant advances in advanced engineering materials (AEMs) like high-strength metals, intermetallics, composites, and metallic glasses. These materials find applications in industries such as automotive, aerospace, electronics, medical devices, and sports. The mechanical properties of AEMs, including elastoplasticity, anisotropy, formability, and fracture mechanics, are crucial for their manufacturing and in-service performance. Understanding AEMs' mechanical behavior requires the development of advanced experimental techniques for multiscale tests and microstructural characterizations, as well as computational methods with advanced constitutive models. Our Special Issue, "Mechanical Behaviors of Advanced Engineering Materials (2nd Edition)," aims to showcase quality research on AEMs' mechanical properties. Topics covered will interest professionals and scientists from universities, research institutes, and industries focusing on AEM design, optimization, and application.

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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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