Special Issue

Thermomechanical Behavior of Materials Under Variable Strain-Rates

Message from the Guest Editors

We are pleased to announce a Special Issue of Materials titled "Thermomechanical Behavior of Materials Under Variable Strain-Rates". This Special Issue aims to gather the latest research and reviews that explore the effects of temperature and strain rates on material behavior.

We invite authors to contribute original research articles, comprehensive reviews, and insightful case studies to this Special Issue. Topics of interest include the following:

- Experimental investigations of material behavior at different temperatures and strain rates.
- Theoretical and computational modelling of thermomechanical responses.
- Characterization of microstructural evolution under varying thermal and mechanical loads.
- Development of new materials with enhanced performance under extreme conditions.
- Case studies on industrial applications of materials under variable strain rates and temperatures.
- Innovations in testing methodologies for thermomechanical properties.

Guest Editors

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Deadline for manuscript submissions

closed (20 April 2025)



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About the Journal

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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