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Deformation Dynamics of Heterogeneous Metallic Materials

Guest Editors:Message from the Guest EditorsProf. Dr. Junyu HuangDear Colleagues,Prof. Dr. Yangguang XuThis Special Issue aims to publish r
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deformation mechanism and m
metallic materials with heterogene

Deadline for manuscript submissions: closed (31 December 2022) This Special Issue aims to publish research works that help to understand the relationships among the microstructure, deformation mechanism and mechanical response of metallic materials with heterogeneous microstructures. We anticipate that this Special Issue will build a bridge between materials science and mechanics communities. We welcome the submission of research papers dealing with topics including but not limited to the following: advanced fabrication (e.g., additive manufacturing), mechanical testing (e.g., dvnamic compression/tension/shear. ballistic planar impact, penetration). microstructural characterization (e.g., scanning/transmission electron microscopy, X-ray/neutron imaging/tomography/diffraction), and multiscale modeling (e.g., ab initio method, molecular dynamics, Monte Carlo method, phase-field modeling, finite element method). Cutting-edge experiments with various situ in characterizations are of particular interest.

Specialsue



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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure - disciplines in metallurgical field the ranging from processing. and mechanical behavior. phase transitions microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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