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Mechanical Behavior of Metallic Nanomaterials

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Message from the Guest Editors

Metallic nanomaterials have emerged as a fascinating class of functional materials with promising applications across various fields, including catalysis, energy storage, sensing, and biomedical engineering due to their unique physical, mechanical properties, and so on. This Special Issue aims to showcase the latest advancements and discoveries in understanding and manipulating their mechanical responses of metallic nanomaterials to develop a set of structure–activity relationships between microstructures, mechanical properties, and deformation mechanisms, which is expected to provide important guidance for property prediction, structural orientation design, and functional optimization in practical applications.



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Special Issue



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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 the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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