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# **Dynamic Response of Metals under Extreme Conditions**

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Deadline for manuscript submissions:

closed (28 February 2023)

# **Message from the Guest Editors**

Dear Colleagues,

We are currently organizing a Special Issue of Metals focused on the "Dynamic Response of Materials under Extreme Conditions". The scope of this issue will include advances in theory, simulation, and experimental techniques to investigate damage and failure of metals. The issue will balance between modeling and experimental research. Updates on progress in modeling across a range of scales, including molecular dynamics, discrete and phase-field dislocation dynamics, continuum simulation of microstructure explicitly resolved defects. macroscopic constitutive theory are solicited. We are especially interested in emphasizing competition between physical mechanisms such as nucleation and growth of voids, leading to final failure. We request articles presenting recent research on experimental techniques employing advanced diagnostics including, for example, phase contrast imaging and post-shock specimen recovery.

If contributing to this Special Issue is of interest to you, please submit a tentative title and short abstract to us before the deadline. We will follow up with prospective authors and provide further guidance.











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# **Editors-in-Chief**

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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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