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Mechanical and Microstructural Behaviour of Heterogeneous Metallic Materials

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Deadline for manuscript submissions:
closed (10 May 2024)

Message from the Guest Editors

The proper manufacturing of heterogenous metallic materials requires the knowledge of new processing techniques and routes together with the optimum parameters that lead to a positive strength–ductility synergy. These routes can be associated with, but not limited to, severe plastic deformation plus heat treatments or the new disruptive technologies from additive manufacturing. Furthermore, understanding the behavior of heterogeneous metallic materials is essential to analyze the microstructural and mechanical variations across the interphases of the hard and soft zones where a heterogeneous deformation state occurs. Therefore, this issue invites the material science community to submit research papers dealing with the fundamentals, design, simulation, and characterization of heterogeneous metallic materials using innovative processing routes that help to understand the strengthening mechanism of these particular materials.

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Message from the Editor-in-Chief

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