

Special Issue

Mechanical Properties and Microstructure of Forged Steel

Message from the Guest Editors

Forged steels represent a quite interesting material family, both from a scientific and commercial point of view, following many applications they can be devoted to. Based on this, it is essential to deeply understand the relations between properties and microstructure and how to drive them through processes. Despite their diffusion as a consolidated material, many research fields are active regarding new applications. At the same time, innovations are coming from the manufacturing process of such a family of materials, also including the possibility to manufacture them starting from metal powder for 3D printing. The Special Issue scope embraces interdisciplinary work covering physical metallurgy and processes, reporting on experimental and theoretical progress concerning microstructural evolution during processing, and microstructure-properties relations.

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About the Journal

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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