Special Issue

Research Related to Recrystallization, Grain Growth and Textures of Metallic Materials

Message from the Guest Editor

The production of metallic materials is impressive not only by the quantity produced but also by its diversity. About 90% of the production of metals and alloys are mechanically worked and undergo recrystallization at least once. The knowledge of the phenomena concerning work hardening, recovery, recrystallization and grain growth is of fundamental importance not only to correctly process these materials but also to control their microstructure and optimize their properties.

This Special Issue aims to publish the latest experimental and theoretical results on the work-hardened state, nucleation of recrystallization, growth of recrystallized regions, grain growth and secondary recrystallization, recovery, recrystallization, and grain growth kinetics. And effects of impurities and alloying elements on recrystallization and grain growth, recovery and recrystallization during deformation, crystallographic textures resulting from plastic deformation and annealing, experimental techniques used in the study of recrystallization and plastic deformation and recrystallization in earth sciences and non-metallic materials.

Guest Editor

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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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