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Special Issue Reprint

Crystallization of High Performance Metallic Materials (2nd Edition)

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The Special Issue (SI) entitled '*Crystallization of High Performance Metallic Materials (2nd Edition)*' has collected ten research papers focusing on different aspects of crystallization of metallic materials, e.g., solidification and continuous casting, crystal plasticity and recrystallization during deformation, laser cladding of the composite coatings, and non-metallic inclusions, as well as mechanical properties evolution of different engineering materials, e.g., non-oriented silicon steels (3 papers), stainless steels, Inconel alloys, aluminum alloys, etc. Both experimental and simulation studies relating to crystallization topics have been reported among the contributions. In addition, two review articles on crystal plasticity and antibacterial properties of magnesium alloys are presented in this Special Issue. This editorial summary aims to highlight the state of the art in the development of crystallization behaviors in different metallic materials.

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