Special Issue

Structure, Texture and Functional Properties of Shape Memory Alloys

Message from the Guest Editors

The purpose of this Special Issue of *Metals* is to summarize our current understanding of the nature of shape memory alloys (SMAs) and the directions for tailoring their structure and functional properties, which have provided them with successful applications. Among them, we should mention the development of new technologies for processing SMAs to confer functional properties and structures, including melt quenching, additive technologies, thermomechanical treatment, and other technologies that allow us to obtain submicron- and nanoscaled structures and to develop porous and thermally stable alloys for various applications. Methods for diagnosing the functional properties of SMAs and the modeling of mechanical behavior are also suitable topics for this Special Issue.

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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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