

Special Issue

Shape Memory Alloys 2019

Message from the Guest Editors

Shape memory alloys constitute an outstanding topic for both fundamental and applied research. Since the pioneering work of Prof. Kurdjumov on thermoelastic martensitic transformations, and the first discovery of the shape memory and superelasticity effects, many alloy systems exhibiting shape memory properties have been discovered and investigated. New discoveries have appeared in the recent years: the strain glass state issued from a frustrated long range martensitic transformation in systems internally structured at nanoscale levels; the fascinating magnetoelastic couplings existing in multiferroic magnetic alloys that allow for giant magnetic field induced strains by martensite reorientation in Ni-Mn-Ga or the field-induced shape memory effect in the so-called metamagnetic shape memory alloys (Ni-Mn-In/Sn/Sb); and interesting phenomena like the martensitic transformation arrest or the large magnetocaloric and magnetoresistance effects are some examples. The Special Issue is expected to collect articles reporting new results in either fundamental or applied aspects of shape memory alloys, as well as review papers about particular topics.

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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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