

Special Issue

Shape Memory Alloys 2017

Message from the Guest Editor

Shape memory alloys have attracted a great deal of attention due to their attractive properties for applications, as well as their basic aspects of deformation and transformation in structural and magnetic behavior. Recently, ferromagnetic shape memory alloys (FSMA) have been studied as candidates for highly functional materials. New alloys in the Ni–Mn–In, Ni–Mn–Sn and Ni–Mn–Sb Heusler alloy systems that are expected to be ferromagnetic shape memory alloys have been studied. These alloys are promising as a metamagnetic shape memory alloys with a magnetic field-induced shape memory effect and as magnetocaloric effect. Consequently, these materials are finding use or are candidates as materials for sensors, actuators, magnetic refrigerator, etc. The Special Issue will be constructed articles reporting new and progressive research results, as well as reviews of particular classes of fundamental physics of the materials and their applications. Manuscripts will be welcomed from both fundamental scientific researchers and authors belonging to industrial companies involved in the field.

Guest Editor

Prof. Dr. Takuo Sakon

Department of Mechanical and Systems Engineering, Faculty of Science and Technology, Ryukoku University, Seta-Ooemachi Yokotani 1-5, Otsu, Shiga 520-2194, Japan

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

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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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Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

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