Special Issue

Characterization of Shape Memory Alloy Materials

Message from the Guest Editor

Shape memory alloys (SMAs) are the generic class of shape memory materials, which have the ability to memorise their original shape when subjected to certain stimulus such as thermomechanical or magnetic variations. The basic physics involved in the SMAs is the thermoelastic martensitic transformation. In the last twenty years, SMA has drawn significant attention and interest in a great form of an extensive sort of commercial applications, due to their unique and superior properties. The development of novel characterization techniques and the design of new materials and structures are synergy. Material characterization based on novel analytical techniques open up new opportunities for innovative SMA material and structural design. This Special Issue focuses on advancements in the characterization of Shape Memory Alloy Materials. It is my pleasure to invite you to submit a manuscript (Full Papers, communications and reviews) for this Special Issue. Articles on both experimental and theoretical research are welcome. Conceptual studies will also be appreciated provided the outcome is supported by logical and scientifically solid arguments.

Guest Editor

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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