Special Issue

Novel Shape Memory Alloys

Message from the Guest Editor

Research interest in shape memory alloys has been increasing continuously. Recently, significant research progress has been made in the field of novel shape memory alloys, covering a broad range of research topics, including the improvement of functional properties and understanding of basic mechanisms of shape memory alloys, high-temperature shape memory alloys for aerospace and automotive applications, elastocaloric shape memory alloys for solid-state refrigeration, magnetic shape memory alloys, and shape memory alloys for biomedical applications. High-entropy shape memory alloys also represent an emerging field, and the additive manufacturing of shape memory alloys is attracting increasing attention. The goal of this Special Issue is to provide an opportunity for scientists and researchers to present their recent research results on or insights into novel shape memory alloys. Both original and review articles are welcome.

Guest Editor

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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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