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Advanced Manufacturing Processes for Shape Memory Alloys

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Message from the Guest Editors

Relevant efforts regarding unconventional methods of manufacturing have been done in the last years for developing new processes, including, but not limited to, Additive Manufacturing and ultra short laser materials processing, able to open the widespread of difficult to machine materials. Among these materials, Shape Memory Alloys can offer peculiar characteristics, able to produce mechanical work according to the shape memory effect or to enhance mechanical performances, in accordance to the pseudo-elastic behavior at body temperature. Nowadays, materials operating at high temperatures or materials with integrated biodegradable properties are just two examples of extra requirements, able to solve more challenging problems.

We hope that the present Special Issue would be an opportunity for creating a strong network between authors and readers working in some different sectors, such as materials science, metallurgy, manufacturing and design, according to the needs of multidisciplinary approach necessary for the use of Shape Memory Alloys for smart applications.

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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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