Special Issue

Multifunctional Properties and Applications of Shape Memory Alloys

Message from the Guest Editors

The unique properties of shape memory alloys make them highly valuable in various industries, as they can undergo phase transformations and recover their original shape in response to external stimuli. This ability makes them ideal for use in products that require deformation or mechanical actuation. In recent years, advancements have been made in developing new types of shape memory alloys and exploring their functional properties. The goal is to design and develop alloys that are more efficient and better suited to meet the demands of various industries, such as aerospace, automotive, electronic, and biomedical. The Special Issue of Materials aims to bring together the latest research and developments in this field and provide insights into the multifunctional properties and applications of shape memory alloys. The issue covers topics such as new functionalities, high-throughput multiscale materials computing and machine learning for efficient design methods, additive manufacturing for innovative synthesis and processing, and advanced material characterization techniques. We invite submissions of manuscripts to this Special Issue that address the listed topics.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

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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