

Special Issue

Shape Memory Alloy (SMA): A Smart Material for Smart and Resilient Systems

Message from the Guest Editors

Shape memory alloys (SMAs) are high-performance metallic materials that have attracted significant research attention recently in the field of civil, mechanical, and aerospace engineering. This Special Issue will focus on the theory and application of SMAs in order to understand the response of these materials to external stimuli such as force, displacement, temperature, magnetic fields, irradiation, and corrosive media toward smarter and more resilient societies. It will showcase some of the latest efforts advancing the frontiers of structural and mechanical engineering by utilizing SMAs. Topics include but are not limited to the following:

- Smart Vibration Control Systems Utilizing SMAs;
- Smart Dampers Utilizing SMAs;
- Smart Seismic Isolation Systems Utilizing SMAs;
- Smart Structural Systems Utilizing SMAs;
- Re-Centring Ability of SMA-Based Systems;
- Corrosion and Ageing Resistance of SMA-Based Systems;
- Hysteresis Behavior of SMA-Based Systems;
- Applications of SMAs in Real Structures;
- SMA-Based Seismic Retrofitting and Rehabilitation;
- Macro-Modeling and Numerical Simulation of SMA-Based Systems/Devices;
- The High Damping Capacity of Shape Memory Alloys.

Guest Editors

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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