Special Issue

Advances in Shape-Memory Polymer Composites

Message from the Guest Editors

Shape-memory polymers and their composites are a kind of intelligent material that can switch between a temporary shape and the initial shape under corresponding external stimuli. Due to their light weight, large deformation, controllable performance and other advantages, the related basic frontier research and potential application developments have always been the focus of researchers. In recent decades, shape-memory polymers have stimulated extensive and in-depth research and show great application prospects in the fields of medical devices, aerospace, transportation, intelligent devices, etc. This Special Issue will publish high-quality original research papers in the overlapping fields of:

- Synthesizing and curing kinetics of SMPs and SMPCs;
- Multifunctional SMPs and nanocomposites;
- Multi-stimuli-triggered SMPs and SMPCs;
- Remotely and sequentially controlled SMPs and SMPCs;
- Self-healing SMPs and SMPCs;
- Four-dimensional printing of SMPs and SMPCs;
- Biomedical applications;
- Aerospace and space applications;
- Civil infrastructure applications;
- Textile applications.

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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