

Shape Memory Polymers And Multifunctional Composites

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Magnetic Shape Memory Polymers with Integrated Multifunctional Shape Manipulations

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Furthermore, the concepts for creating multifunctionality could be transferred to recently achieved novel shape memory capabilities, such as light sensitive SMPs, polymers having a reversible shape changing capability or triple shape polymers.

Multifunctional Shape Memory Polymers - Behl - 2010 ...

Book Description. Admired for their extraordinary stimuli-sensitive behavior and shape-changing capabilities, shape-memory polymers (SMPs) and multifunctional composites are among the most important smart materials. They continue to be widely applied in many diverse fields to create things such as self-deployable spacecraft structures, morphing structures, SMP foams, smart textiles, and intelligent medical devices.

Shape-Memory Polymers and Multifunctional Composites - 1st ...

Admired for their extraordinary stimuli-sensitive behavior and shape-changing capabilities, shape-memory polymers (SMPs) and multifunctional composites are among the most important smart materials.

Shape-Memory Polymers and Multifunctional Composites ...

Abstract Shape programmable soft materials that exhibit integrated multifunctional shape manipulations, including reprogrammable, untethered, fast, ... Here, a novel magnetic shape memory polymer composite is reported to achieve this. The composite consists of two types of magnetic particles in an amorphous shape memory polymer matrix.

Magnetic Shape Memory Polymers with Integrated ...

Written by renowned authors, Shape-Memory Polymers and Multifunctional Composites is a broad overview of the systematic progress associated with this emerging class of materials. The book presents...

Shape-Memory Polymers and Multifunctional Composites ...

Constitutive modeling for shape memory polymers and/or multifunctional composites Theoretical predictions and simulations for shape memory polymer and composite materials Advanced manufacturing technology, such as 3D/4D printing with shape memory effects Smart textiles for medicine and healthcare

Special Issue "Shape Memory Polymers and Multifunctional ...

Shape-Memory Polymers and Multifunctional Composites Details Admired for their extraordinary stimuli-sensitive behavior and shape-changing capabilities, shape-memory polymers (SMPs) and multifunctional composites are among the most important smart materials.

Shape-Memory Polymers and Multifunctional Composites - Knowl

In the past two decades, SMPs and the shape memory effects in them have been the subject of the most numerous investigations and developments in the field of polymer material science and...

Shape memory polymer and multifunctional composite ...

This review is focused on the most recent research on multifunctional shape memory polymer nanocomposites reinforced by various nanoparticles. Different multifunctional shape memory nanocomposites responsive to different kinds of stimulation methods, including thermal responsive, electro-activated, alternating magnetic field responsive, light sensitive and water induced SMPs, are discussed separately.

Stimulus methods of multi-functional shape memory polymer ...

Shape memory polymers may serve as technology platform for a safe way of information storage and release. Overt anti-counterfeiting labels have been constructed that display a visual symbol or code when exposed to specific chemicals. Multifunctional labels may even make counterfeiting increasingly difficult.

Shape-memory polymer - Wikipedia

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Shape-Memory Polymers and Multifunctional Composites. Leng ...

Admired for their extraordinary stimuli-sensitive behavior and shape-changing capabilities, shape-memory polymers (SMPs) and multifunctional composites are among the most important smart materials.

Shape-Memory Polymers and Multifunctional Composites. Leng ...

A wide range of novel materials have been developed in the past, including liquid crystals elastomers,[6]hydrogels,[7] magnetic soft materials,[2,8]and shape memory polymers (SMPs). [1a,9]Despite these efforts, to date there is no single material system that can integrate multi- functional shape manipulations.

Magnetic Shape Memory Polymers with Integrated ...

Shape-memory in polymers stems from the presence of stiff and compliant states. The stiff state helps in memorizing the permanent shape while the soft state helps in the transition or switching between the deformed and the permanent shape.

3D printing of multifunctional materials for sensing and ...

Abstract. A novel multifunctional supramolecular hydrogel with self-healing, shape memory and adhesive properties is successfully developed on the basis of dynamic phenylboronic acid (PBA)-catechol interactions. The reversible nature of PBA-catechol bonds renders the hydrogel with outstanding self-healing and shape memory behavior, and the mussel-inspired catechol moieties generate fascinating adhesive properties.

Mussel-inspired multifunctional supramolecular hydrogels ...

Drug-releasing shape-memory polymers - the role of morphology, processing effects, and matrix degradation. The combination of SMPs with a drug-release functionality leads to multifunctional carriers that are an interesting technology for pharmaceutical sciences and can be further expanded by new materials such as thermoplastic SMPs or temperature-memory polymers.

Drug-releasing shape-memory polymers - the role of ...

Admired for their extraordinary stimuli-sensitive behavior and shape-changing capabilities, shape-memory polymers (SMPs) and multifunctional composites are among the most important smart materials. This book presents an overview of SMPs and a discussion of their structural, thermo-mechanical, and electrical properties, and their applications.