



Self-Healing Materials and Devices

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Message from the Guest Editors

Dear Colleagues,

Polymers are undoubtedly excellent candidates for the design of self-healing materials, which have the ability to repair or restore damage, due to their widespread application and various self-healing mechanisms. Specifically, the underlying healing mechanisms can be categorized into extrinsic and intrinsic self-healing materials. Moreover, endowing devices with a self-healing ability is of significance to achieving a long lifetime and reducing polymer waste, especially in the circular economy model. Over the past few decades, tremendous progress has been made in the development of self-healing materials, which have been successfully integrated into different functional devices, including sensors, artificial muscle, solar cells, field-effect transistors, dielectric actuators, and energy devices.

The aim of this Special Issue is to provide readers with an up-to-date overview of recent progress in research on self-healing materials and devices.





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Message from the Editor-in-Chief

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