

Special Issue

Advanced Shape-Memory Polymers: Design, Multifunctionality and Smart Applications

Message from the Guest Editors

Contributions addressing both fundamental and applied aspects of Shape-memory polymers (SMPs), including material design strategies, reversible and multi-shape-memory mechanisms, multifunctional and double-acting systems, and integration into smart structures and functional devices, are welcome. Particular emphasis will be placed on structure–property relationships, processing and manufacturing approaches such as additive manufacturing and composite integration, and strategies for performance optimisation. Studies addressing intelligent, bio-based, and sustainable SMP systems, as well as hybrid and composite architectures are also encouraged.

For this Special Issue, we welcome original research articles, comprehensive reviews, and perspective papers that critically assess current challenges and identify future research directions. The objective is to provide a focused platform that supports interdisciplinary collaboration and facilitates the translation of shape-memory polymer technologies into advanced engineering and smart material applications.

Guest Editors

Dr. Janitha Jeewantha
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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 5.8.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

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