

Special Issue

Applications of Polymer Composites in Sustainable Development

Message from the Guest Editors

This Special Issue comes at a critical juncture where the demand for high-performance materials must inevitably align with the principles of the circular economy. The goal is to provide a multidisciplinary platform to explore how the functional design of engineering polymers and composite materials can facilitate their recovery and valorization. We seek contributions that address topics ranging from the management of critical manufacturing waste, such as prepreg waste, to the development of new chemical architectures that enable circularity in complex systems such as next-generation batteries. (a) Industrial waste valorization; (b) Circular battery technologies; (c) Advanced recycling methodologies; (d) Dynamic chemistry and vitrimers; (e) High-performance bio-based polymers; (f) Natural fiber composites; (g) Smart and self-healing materials; (h) Design for Disassembly (DfD); (i) Life Cycle Assessment (LCA) and digitalization.

Guest Editors

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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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