Special Issue

Polymer-Based Catalytic Materials: Synthesis, Characterization, and Applications

Message from the Guest Editors

This Special Issue focuses on polymer-based catalytic materials. Advances in controlled polymerization and post-functionalization have enabled the design of porous organic polymers, functional copolymers, and nanostructured supports with precisely tailored architectures. These systems combine the tunable physical and chemical properties of polymers with the high activity, selectivity, and recyclability of catalytic species. Modern characterization tools—such as spectroscopy, electron microscopy, and 3D imaging—provide critical insights into structure–activity relationships, guiding the development of more efficient catalysts. Applications span green and sustainable synthesis, environmental remediation, photocatalysis, electrocatalysis, and energy conversion. This Special Issue invites original research articles, reviews, and short communications on synthesis strategies, advanced characterization methods, and innovative applications of polymer-based catalysts. Contributions highlighting environmentally friendly, multifunctional, and recyclable systems with potential for industrial deployment are particularly encouraged.

Guest Editors

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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 4.9.

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

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