



Polymeric Nanocomposites: Synthesis and Applications

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to showcase the latest advancements in research on polymeric nanocomposites, focusing on synthesis, characterization, and multifaceted applications, harnessing innovative synthesis techniques. The applications of polymeric nanocomposites are wide-ranging and impactful. Biomedical applications include drug delivery for precision therapy and 3D-printed scaffolds for regenerative medicine. In the environmental realm, polymeric nanocomposite films/membranes contribute to water purification and pollutant removal. Moreover, industrial applications encompass coatings, sensors, and additive manufacturing.

This Special Issue invites original research articles and reviews that delve into the diverse aspects of polymeric nanocomposites. Topics of interest include:

- Novel synthesis strategies and design principles for polymeric nanocomposites
- Advances in characterizing nanocomposites structures and properties
- Responsive and functional nanocomposites for biomedical and environmental applications
- Industrial implementations and technological innovations utilizing polymeric nanocomposites





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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 5.0.

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.

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