



## Synthesis and Applications of Polymer-Based Nanocomposites

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Deadline for manuscript submissions:

**5 February 2025**

### Message from the Guest Editors

Dear Colleagues,

Polymer nanocomposites are gaining increasing interest and applications due to their superior properties compared to conventional polymers. They can be defined as materials in which nanoscale particles, in at least one dimension, are dispersed in an organic polymer matrix to improve their performance properties. These include mechanical strength and toughness, the ability to create a developed inner surface, adjustable thermal and electrical conductivity, and many others. Improvement of the synthesis parameters of such systems in order to customize the properties and adapt composites for a particular use is attracting more and more researchers. The materials created can have a wide variety of applications, for example, biomimetic materials and technologies, smart materials, renewable energy sources, various sensors and biosensors, packaging etc.

This Special Issue focuses on the synthesis, characterization, properties, modeling, and applications of various polymer-based nanocomposites. We invite researchers to share their latest investigations in the form of articles, reviews, and academic articles.





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## Editor-in-Chief

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## Message from the Editor-in-Chief

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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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