Special Issue

Recent Advances and Applications of Polymer Nanocomposites

Message from the Guest Editor

Polymer nanocomposites have emerged as a groundbreaking class of materials, integrating nanoscale reinforcements into polymer matrices to enhance mechanical, thermal, electrical, and barrier properties. Recent advancements in nanofillers such as carbon nanotubes, graphene, nanoclays, and metaloxide nanoparticles have significantly improved the functionality and performance of these materials. Innovative processing techniques, surface modifications, and the development of sustainable, biobased polymer nanocomposites have further expanded their applications across diverse industries.

This Special Issue aims at showcasing the latest research and developments in polymer nanocomposites, covering synthesis, characterization, and advanced applications in fields such as aerospace, automotive, electronics, biomedical engineering, and energy storage. Scholars are welcome to contribute.

Guest Editor

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Deadline for manuscript submissions

28 February 2026



Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/232508

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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 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

Prof. Dr. Alexander Böker

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