

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 metal-oxide nanoparticles have significantly improved the functionality and performance of these materials. Innovative processing techniques, surface modifications, and the development of sustainable, bio-based 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

Dr. Aparna Beena Unni

Faculty of Science and Technology, University of Silesia in Katowice, Katowice, Poland

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Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

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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 4.7.

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

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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