

## Special Issue

# Functional Graphene-Polymer Composites, 2nd Edition

### Message from the Guest Editors

This Special Issue focuses on the design and applications of functional graphene-polymer nanocomposites. The study of these materials has increased significantly in recent decades due to their outstanding properties. On the one hand, the addition of graphene into polymer matrices enhances their mechanical, thermal, and electrical properties compared to neat polymers. On the other hand, polymeric matrices support graphene through different chemical and physical interactions at the polymer/graphene interface, thus offering new possibilities of processing. These materials have found applications in the construction, automobile, aerospace, electronics, and biomedical fields. This Special Issue covers fundamental research and applications of functional graphene-polymer nanocomposites. It deals with the different methods of fabrication, characterization, and application of graphene-polymer nanocomposites associated with self-healing materials, water purification composites, sensors, actuators, soft robotics materials, and many others.

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### Guest Editors

Prof. Dr. Andrea Pucci  
Dr. Rodrigo Araya-Hermosilla  
Dr. Esteban Araya-Hermosilla

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### Deadline for manuscript submissions

closed (31 July 2025)



## Polymers

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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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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