

## Special Issue

# Polymer–Graphene Composites: Preparation, Properties, and Applications

### Message from the Guest Editor

Graphene, with its exceptional mechanical, electrical, and thermal properties, has emerged as a promising material for enhancing the performance of polymer composites. Polymer–graphene composites find applications in a wide range of fields. In the energy sector, they are used in supercapacitors, batteries, and thermoelectric devices. These composites are employed in imaging, tissue engineering scaffolds, and drug delivery systems in the biomedical field. Additionally, they are utilized in electromagnetic interference shielding, structural materials, and flexible electronics. This Special Issue invites researchers to submit original research articles and comprehensive reviews that explore the preparation methods, properties, and applications of polymer–graphene composites. We aim to highlight innovative approaches, novel materials, and emerging technologies that advance the field of composites for various applications.

### Guest Editor

Dr. Suguna Perumal

Department of Chemistry, Sejong University, Seoul, Republic of Korea

### Deadline for manuscript submissions

10 February 2026



## 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 4.7.

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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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