# Special Issue

# Low-Dimensional Carbon-Based Polymer Composites: Preparation, Properties and Applications

## Message from the Guest Editors

Low dimensional carbon materials include zero-dimensional carbon quantum dots, fullerenes, one-dimensional carbon nanotubes, two-dimensional graphene and other related materials, which have unique optical, electrical, magnetic, thermal, mechanical properties and a large specific surface area. By compounding with polymers, the microstructure of the composites can be regulated, to obtain excellent performance with broad application prospects in the fields of flexible electronics, biomedicine, energy storage, electromagnetic shielding and water treatment, et al. This special issue invites original research articles and critical reviews on the most recent advancements of low-dimensional carbon based polymer composites. Potential topics include but are not limited to:

- Polymer composites based on carbon quantum dots, fullerenes, carbon nanotubes and graphene et al.;
- Preparation and characterization of low dimensional materials as polymer fillers;
- Structures, properties and applications of low-dimensional carbon /polymer composites;

Design and functionalization of multi-dimensional and multi-scale composites.

## Guest Editors

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## Deadline for manuscript submissions

closed (20 October 2024)

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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
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