

## Special Issue

# The Potential of Graphene and Other Carbon-Based Nanomaterials to Enhance the Performance of Materials

### Message from the Guest Editors

Graphene is a two-dimensional layered material composed of  $sp^2$  hybridized carbon atoms and combines exceptional thermal and electrical conductivity with lightweight, flexibility, and strength. Graphene can be used in its pristine form, as well as functionalized forms (starting from graphite oxide or graphene oxide). Moreover, other carbon-based nanomaterials, such as carbon nanotubes, graphite, fullerene, and carbon fiber, are seen as “graphene derivatives”. Graphene and other carbon-based materials are often employed as reinforcing agents for polymers, ceramics, metal, steel, aluminum, and other types of alloys. This Special Issue aims to expand the state of knowledge on the use of graphene (in both pristine and functionalized forms), and other carbon-based nanomaterials to reinforce a large variety of polymers (synthetic, bio-based, thermoplastics, thermosets, amorphous or semi-crystalline), as well as ceramics, metal, steel, aluminum, and other types of alloys. Research papers, as well as reviews, are welcome.

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### Guest Editors

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### Deadline for manuscript submissions

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## Polymers

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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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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