Special Issue

Advances in Graphene-Based Nanocomposites

Message from the Guest Editors

Graphene is a two-dimensional (2D) nanofiller which has been considered as an ideal candidate for nanocomposite applications because of its immense surface area and intriguing mechanical, electrical, and thermal properties. To best utilize the excellent properties of graphene, significant progress has been made in the field of graphene-based polymer nanocomposites both in the fundamental understanding of structure–property relationships and the development of advanced manufacturing techniques to realize controllable assembly of graphene in various matrix materials. This Special Issue invites both original research articles and critical reviews on the most recent progress in graphene-based nanocomposites. Potential topics include:

- Rational synthesis techniques of graphene and graphene-based nanocomposites;
- Mechanical and multifunctional properties;
- Experimental characterization techniques for understanding the structure-property relationships at different length scales;
- Simulation and modelling;
- Nanocomposites containing hybrid/other 2D nanofillers;
- Emerging applications in wearable electronics, energy storage devices and environment remediation.

Guest Editors

Prof. Dr. Xi Shen

Department of Mechancial and Aerospace Enigneering, The Hong Kong University of Science and Technology, Hongkong 999077, China

Prof. Dr. Qingbin Zheng

School of Science and Engineering, The Chinese University of Hong Kong, Shenzhen, China

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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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