Special Issue

Structure-Property-Function Relation of Multifunctional Polymer Nanocomposites

Message from the Guest Editor

Due to several advantages such as ease of availability and processability, cost effectiveness, resistance to corrosion, etc., polymer-based nanocomposites are widely applied in the areas of health, water filtration, sensors, energy infrastructure, electronics, space and defense and many others. Furthermore, incorporation of multifunctional nanomaterials to the polymer improve several properties with modifications in structure and function, extending their use in several areas. The current Special Issue welcomes high-quality research or review articles to create an interdisciplinary discussion on the advancement of polymer nanocomposites in wide area of applications. It focuses on the structure-property-function of such multifunctional polymer nanocomposites. It mainly includes, but not limited to:

- Structure: Synthesis; Fabrication; Characterization; Nanocomposites; Nanofibers; Electrospinning; 3D printing; Processing
- Property: Mechanical; Thermal; Electrical;
 Piezoelectric; Dielectric; Rheological; Tribological
- Function: Functionalization; Energy; Transport;
 Healthcare; Point of care technology (POCT); Sensing;
 Biomedical applications

Guest Editor

Dr. Ashish N. Aphale

Department of Mechanical Engineering, Kennesaw State University, Marietta, GA 30060, USA

Deadline for manuscript submissions

closed (31 March 2021)



Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/60345

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/polymers





Polymers

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.7 Indexed in PubMed



About the Journal

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)

