

Special Issue

Properties and Characterization of Polymer Nanocomposites

Message from the Guest Editors

This Special Issue encompasses a diverse range of studies exploring the fundamental aspects, synthesis techniques, characterization methods, and applications of polymer nanocomposites. We include research articles that delve into the effects of different nanoparticle types, sizes, and shapes on the mechanical, thermal, electrical, and barrier properties of polymer matrices, as well as articles investigating the electrical and barrier properties of polymer nanocomposites. Dielectric spectroscopy, electrical conductivity measurements, and permeability testing are utilized to assess electrical resistivity, dielectric constant, and the barrier performance of nanocomposites against gases and liquids. These studies shed light on the potential applications of polymer nanocomposites in electronics, sensors, and packaging industries.

Guest Editors

Prof. Dr. Chin-San Wu

Department of Applied Cosmetology, Kao Yuan University, Kaohsiung County 82101, Taiwan

Prof. Dr. Chi-Hui Tsou

College of Materials Science and Engineering, Sichuan University of Science and Engineering, Zigong 643000, 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 4.9.

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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