



Properties and Characterization of Polymer Nanocomposites

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

Deadline for manuscript
submissions:

31 July 2024

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 14476
Potsdam-Golm, Germany

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 5.0.

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.

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 (*Polymers and Plastics*)

Contact Us

Polymers Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/polymers
polymers@mdpi.com
X@Polymers_MDPI