

Special Issue

Properties, Structure and Environmental Impact of Organic and Inorganic Polymer Composites

Message from the Guest Editors

There are many applications of polymeric composites due to their durability, variety of functionalities, and properties. The properties of these composites are mostly based on the type and size of additive material in the polymer matrix. The mechanical, chemical, and physical properties of the composites are exclusively related to filler–matrix interaction. Therefore, some plasticizers, compatibilizers, and coupling agents might be needed in order to improve such filler–matrix interaction and enhance the desired properties. There are many different polymers and fillers with a variety of functional groups that can be used to prepare a tremendous number of different composites. For this purpose, natural fibers; conductive, inorganic, and organic nanoparticles; carbon nanotubes; graphite; clay; and graphene can be mentioned as the most common fillers used in composite preparation. The matrix of a composite can be either degradable or nondegradable organic or inorganic polymers. On the other hand, the environmental impact of plastics and composites is now one of the concerns that should be taken into account. Therefore, it contains life cycle assessment of composites.

Guest Editors

Dr. Haci Baykara

Facultad de Ingeniería Mecánica y Ciencias de la Producción, Escuela Superior Politécnica del Litoral, Guayaquil, Ecuador

Prof. Dr. Joaquín L. Brito

Biomass to Resources Group, Universidad Regional Amazónica IKIAM, Tena, Ecuador

Deadline for manuscript submissions

closed (5 September 2023)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/137609

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

[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)





Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)



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)