



Recent Study in Engineering Application of Microplastics and Nano Plastics

Guest Editors:

Dr. Francesca Lionetto

Department of Engineering for Innovation, University of Salento, Lecce, Italy

Dr. Carlos Espinoza-González

Department of Advanced Materials, Research Center for Applied Chemistry (CIQA), Saltillo 25294, Mexico

Deadline for manuscript submissions:

closed (15 August 2024)

Message from the Guest Editors

Micro/nano particles based on synthetic and natural polymers are finding increasing applications in several fields. micro/nano particles are also responsible for water, air and soil pollution together with secondary microplastics (MPs) and nano plastics (NPs), originating from plastic waste fragmenting and degradation. Although the huge interest, the chemical vector role of micro/nano plastics, their fate and the negative effects on the environment and human health is still under discussion and the investigations are still sparse. Moreover, the study of the MP/NP pollution relies on the availability of environmentally relevant engineered nano particles for toxicological, transport and adsorption studies in biological tissues.

This Special Issue is focused on the recent study in engineering application of microplastics and nano plastics, also including their production and characterization, recycling (downcycling or upcycling), degradation in air, soil or aquatic environments, adsorption of toxic chemicals and the risk for the environment and human health.





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 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.

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)

Contact Us

Polymers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

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