Special Issue

Renewable and Biodegradable Polymer-Based Materials and Applications

Message from the Guest Editors

The conventional synthetic polymers made from petrochemical products have damaging environmental effects due to their low recovery and reproduction rates and their poor degradability. Therefore, the development of environmentally friendly polymeric materials, which are mainly derived from renewable and biodegradable polymers from both fossil fuel and natural resources with excellent physical properties, has received a lot of research attention. At the same time, the use of reinforcement materials in renewable and biodegradable polymers has demonstrated significant promise for new designing renewable and biodegradable polymeric materials with desired properties. This Special Issue seeks to address recent developments based on renewable and biodegradable polymer-based materials and their applications. Manuscripts dealing with the synthesis of renewable and biodegradable polymers; nanoparticles, nanohybrids, and nanocomposites; functionalization; processing; multifunctional properties; applications; and recycling will be considered. Full papers, communications, and reviews covering these subjects are welcome.

Guest Editors

Prof. Dr. Tzong-Ming Wu

Department of Materials Science and Engineering, National Chung Hsing University, Taichung, Taiwan

Dr. Chin-Wen Chen

Institute of Organic and Polymeric Materials, Research and Development Center of Smart Textile Technology, National Taipei University of Technology, Taipei 10608, Taiwan

Deadline for manuscript submissions

closed (30 November 2023)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/117328

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

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)

MDPI