



Synthetic and Natural Origin Polymers: Synthesis, Characterization, Modification, Functionalized Properties and Applications

Guest Editors:

Prof. Dr. Barbara Gawdzik

Department of Polymer Chemistry, Faculty of Chemistry, Maria Curie-Skłodowska, Lublin, Poland

Dr. Przemysław Pączkowski

Department of Polymer Chemistry, Institute of Chemical Sciences, Faculty of Chemistry, Maria Curie-Skłodowska University, 20-031 Lublin, Poland

Deadline for manuscript submissions:
closed (20 October 2023)

Message from the Guest Editors

In the last few decades, especially the use of synthetic polymers has seen significant growth and application, such as medicine, sensors, optical fibers, electronics, and as large-size composites in the automotive and aerospace industries. However, it should be emphasized that the history of synthetic polymers is very short and only slightly exceeds 100 years.

In turn, polymers of natural origin have a long history. Currently, they are widespread in many areas of life and used, among others, in packaging in the automotive and pharmaceutical industries. Various types of modifications are often carried out to obtain polymers with the desired properties. The functional groups present in the structure of the polymers enable hardening, block copolymer formation, functionalization, deactivation, etc. Chemical modification methods have also been found for synthetic polymers without functional groups. The unexpected properties appear even when different polymers are mixed with or active fillers are added.

The aim of this Special Issue is to highlight progress in the manufacturing, characterization, modification, and applications of polymeric materials of natural and synthetic origin.





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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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