



Biodegradable Polymers: From Chemical Synthesis to Biodegradable Mechanism

Guest Editors:

Dr. Ling-Ping Xiao

Dr. Oana Lelia Pop

Prof. Dr. Gabrijel Ondrasek

Message from the Guest Editors

In recent years, there has been an increase in interest in biodegradable polymers. They are useful in agriculture, packaging, biomedical, and other areas, and represent the most acceptable means of solving the many environmental issues related to non-biodegradable polymers.

Deadline for manuscript
submissions:

closed (30 April 2024)

Three types of synthetic bio-composites that are commonly used in biodegradable polymers are the following: (1) polyesters, (2) polymers containing both ester and other heteroatom-containing linkages in the main chains, and (3) polymers with heteroatom-containing linkages other than ester linkages in the main chains.

This Special Issue welcomes an overview of the different biodegradable polymers, such as biodegradability, design and modification, structure, hydrolysis kinetics, and properties research, as well as new developments in their synthesis. All research should focus on providing insight into the molecular structure. Studies of the physical and chemical mechanisms by which the major classes of polymers are degraded are also welcomed.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI