



an Open Access Journal by MDPI

## Novel Bio-Based Materials from Renewable Sources

Guest Editors:

**Prof. Dr. Raffaele Porta**

Department of Chemical  
Sciences, University of Naples  
"Federico II", 80126 Naples, Italy

**Dr. Concetta Valeria Lucia  
Giosafatto**

Department of Chemical  
Sciences, University of Naples  
"Federico II", Complesso  
Universitario di Monte  
Sant'Angelo, 80126 Naples, Italy

**Dr. Loredana Mariniello**

Department of Chemical  
Sciences, University of Naples  
"Federico II", 80126 Naples, Italy

### Message from the Guest Editors

We invite investigators to contribute original research articles as well as review articles regarding the production and characterization of different kinds of bioplastics obtained by using different experimental approaches. Since the main disadvantages of the films derived from bio-based sources are their unsatisfactory mechanical properties and high sensitivity to the moisture, research using new enzymes, plasticizers, nanoparticles, or studies based on mono- and multi-layer systems by blending different biopolymers, is strongly preferred. Finally, a further requested topic of the present Special Issue is the development of novel materials functionalized through bioactive molecules in order to tailor them for specific antimicrobial and antioxidant applications both in animal and plant fields.

Deadline for manuscript  
submissions:

**closed (15 May 2023)**



[mdpi.com/si/112749](https://mdpi.com/si/112749)

# Special Issue



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 and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

## Contact Us

---

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI