



## Processing and Application of Bio-Based Polymeric Compounds

Guest Editors:

**Prof. Dr. Faissal Aziz**

Laboratory of Water, Biodiversity  
& Climate Change, Faculty of  
Science Semlalia-  
Marrakech/Faculty  
Polydisciplinary of Safi, Cadi  
Ayyad University, Marrakesh,  
Morocco

**Dr. Mounir El Achaby**

Materials Science, Energy and  
Nanoengineering Department,  
Mohammed VI Polytechnic  
University, BenGuerir, Morocco

Deadline for manuscript  
submissions:

**closed (15 October 2023)**

### Message from the Guest Editors

Bio-based polymer compounds are partially or totally bio-based polymers.

Biobased building blocks or biomacromolecules are chemically modified and/or polymerized. The end-product “biocomposites” are obtained following a phase of formulation and implementation. For this purpose, many processing techniques may be applied (extrusion, molding, calendaring, casting, reinforcing, thermoforming, etc.) to adopt their uses for various long-term applications.

This approach is associated with the development of innovative biosourced macromolecular architectures with new functionalities for advanced applications. It is a global valorization approach, and involves the recovery of different biomasses that are part of greener chemistry for doubly sustainable materials, environmental preservation and a favorable bioeconomy. These architectures make it possible in certain cases to develop flexible materials with an improved lifespan and recyclability while providing specific usage functions.

This Special Issue aims to showcase the progress, opportunities, and challenges in processing techniques of bio-based polymeric compounds and their applications.





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 5.0.

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 (*Polymers and Plastics*)

## Contact Us

---

*Polymers* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/polymers](http://mdpi.com/journal/polymers)  
[polymers@mdpi.com](mailto:polymers@mdpi.com)  
[X@Polymers\\_MDPI](https://twitter.com/Polymers_MDPI)