



## Sustainability and Circularity for Novel Bioactive and Biobased Solutions: Materials, Polymers, Coatings, and Processing

Guest Editor:

**Dr. Isabel Gouveia**

FibEnTech Research Unit, Faculty  
of Engineering, University of Beira  
Interior, 6200-001 Covilhã,  
Portugal

Deadline for manuscript  
submissions:

**30 May 2024**

### Message from the Guest Editor

Dear Colleagues,

This Special Issue emphasizes the entire range of bio-inspired solutions toward a bio-based and a bioactive function, whereas polymer-based materials, coatings, and related topics have an improved sustainability and circularity concern when compared with the fossil-based state of the art.

The Special Issue aims to focus on novel approaches toward more sustainable development and the processing of polymer bio-based solutions to overcome the climate challenges and fossil-based materials, polymers, coatings, etc. It also aims to bring together bio-mimetic and bio-inspired strategies for bioactive function with concerns regarding sustainability and bacteria resistance.

- Bioactive polymers;
- Bioactive materials;
- Bio-based sustainable polymers;
- Antimicrobial surfaces and coatings;
- Antimicrobial bio-based solutions;
- Sustainable polymers and fibers;
- Biorefineries feedstock for bio-based polymers;
- Nature-based solutions;
- Biomimetic solutions;
- Safe-by-design bio-inspired polymers, materials, and coatings.



[mdpi.com/si/130209](https://mdpi.com/si/130209)

Dr. Isabel Gouveia  
*Guest Editor*

**Special** Issue



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)