

## Special Issue

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

### Message from the Guest Editor

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.

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### Guest Editor

Dr. Isabel Gouveia

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

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### Deadline for manuscript submissions

closed (30 May 2024)



## Polymers

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## About the Journal

### 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 4.9.

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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

Fraunhofer-Institut für Angewandte Polymerforschung, Lehrstuhl für Polymermaterialien und Polymertechnologie, Universität Potsdam, Geiselbergstraße 69, 14476 Potsdam-Golm, Germany

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