

## Special Issue

# Research and Innovations in Green Monomers and Macromolecular Materials

### Message from the Guest Editors

Green monomers and macromolecular materials, which include both bio-based and/or biodegradable materials and those that can be recycled, offer significant environmental benefits by reducing dependence on fossil fuels, minimizing waste, and contributing to a circular plastics economy. By promoting the use of sustainable monomers and polymers and encouraging recycling, these innovative materials play a crucial role in addressing the growing concerns over plastic pollution and the need for more eco-friendly alternatives in various industries. In addition to medical applications, green macromolecular materials are increasingly being used as sustainable solutions in consumer and packaging applications, reducing dependence on conventional plastics made from fossil-based resources. This Special Issue aims to present the state-of-the-art advancements in the field of green monomers and macromolecular material, with particular focus on bio-based and biodegradable, but also recyclable, polymers that contribute to the creation of resource-efficient, eco-friendly, and sustainable polymer materials for the circular economy.

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### Guest Editors

Dr. Joanna Rydz  
Dr. Marta Musiol  
Dr. Wanda Sikorska

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### Deadline for manuscript submissions

closed (20 January 2026)



## International Journal of Molecular Sciences

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