## **Special Issue**

### Challenge and Prospect of Plastics and Bioplastics for Sustainable Circular Economy

### Message from the Guest Editors

The use of polymeric and petroleum-based materials is essential to socioeconomic growth and development. However, their contribution to economic growth and their unfavorable environmental impact, producing greenhouse gas emissions and persisting in marine and terrestrial environments, warrant attention. Therefore, this Special Issue presents research findings and innovative solutions that address the challenges associated with the utilization of different types of plastics and polymeric materials. We also welcome the submission of research that addresses waste management, technological innovation, life cycle assessment, carbon footprint, and environmental associated with the use of degradable and nondegradable plastics in relation to the circular economy. Furthermore, this Special Issue aims to explore the potential use of plastics in energy production and other valuable products.

### **Guest Editors**

- Dr. Emmanuel Kweinor Tetteh
- Dr. Oluwatoyin Joseph Gbadeyan
- Dr. Ifeanyi Michael Smarte Anekwe

**Deadline for manuscript submissions** closed (30 June 2025)



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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 4.7.

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.

### Editor-in-Chief

Prof. Dr. Alexander Böker

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