# Special Issue

# Application and Degradation of Polymeric Materials in Agriculture

# Message from the Guest Editors

The development of polymer materials in the agricultural sector needs to strike a balance between functionality and environmental compatibility. On the one hand, it is necessary to enhance the performance optimization and cost control of new biodegradable materials to promote their widespread application. On the other hand, a comprehensive system for evaluating material recycling and degradation should be established. Combined with precision agriculture technologies, this will realize the efficient and sustainable utilization of polymer materials, providing technical support for the green development of agriculture. This issue invites contributions on key topics, including: molecular design for controlled degradation; applications in packaging, agriculture, biomedicine, and so on; degradation kinetics and mechanisms in various environments; and advanced in situ and ex situ techniques to monitor degradation, identify degradation products such as microplastics and intermediates, and assess ecotoxicity. We welcome original research and reviews that consolidate recent advances in the field.

## **Guest Editors**

Dr. Dan Huang

Dr. Mingqiang Zhu

Dr. Yanyan Dong

## **Deadline for manuscript submissions**

10 May 2026



# **Polymers**

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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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