Special Issue

Polymer Materials for Agricultural Application

Message from the Guest Editors

Polymers contribute to the sustainable intensification of agricultural production. (Bio)polymers are active ingredients and/or enhancers of plant biostimulants and plant protection products. Seeds often require and benefit from film-forming polymers for enhanced protection and better germination. Polymeric films are used also to control postharvest diseases and to extend shelf life of fruits and vegetables. New generation of controlled released fertilizers relies on biodegradable polymer coatings. Biodegradable plastic mulch and/or water-holding polymers buffer soil temperature, prevent moisture loss, and increase crop water use efficiency. Formulations based on responsive polymers improve the efficacy and selectivity of agrochemicals and limit their negative impacts. The precise application of these polymer-based products to sustainable agricultural systems is supported by newly developed polymerbased agricultural sensors. This Special Issue is intended to bring together research papers, communications, and review articles covering topics related to the development and application of polymers for crop management.

Guest Editors

Dr. Florin Oancea

 Bioresource Department, Bioproducts Team, National Institute for Research and Development in Chemistry and Petrochemistry— ICECHIM, Spl. Independentei Nr. 202, Sector 6, 060021 Bucharest, Romania 2. Faculty of Biotechnologies, University of Agronomic Sciences and Veterinary Medicine of Bucharest, Blvd. Marasti Nr. 59, Sector 1, 011464 Bucharest, Romania

Dr. Diana Constantinescu-Aruxandei

National Institute for Research & Development in Chemistry and Petrochemistry-ICECHIM, 060021 Bucharest, Romania

Deadline for manuscript submissions

closed (30 June 2022)



Polymers

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.7 Indexed in PubMed



mdpi.com/si/49058

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/ polymers





Polymers

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.7 Indexed in PubMed



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 4.7.

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

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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 (General Chemistry)

