Special Issue

Machine Learning and Artificial Intelligence for Polymer Processing

Message from the Guest Editors

This Special Issue aims to explore the transformative role of Machine Learning (ML) and Artificial Intelligence (AI) in the domain of Injection Molding Design and Processing. Focused on unraveling the intricate dynamics within this critical manufacturing process, this Special Issue aims to showcase innovative approaches in modeling, simulation, and process control tailored to injection molding applications. Articles solicited for this Special Issue will spotlight the pivotal role of ML and AI in optimizing and advancing both the design and processing aspects of polymer injection molding. Authors are encouraged to contribute research that not only advances theoretical frameworks but also rigorously validates them against real-world injection molding scenarios. We hope that this Special Issue will serve as a dedicated platform for sharing groundbreaking developments, fostering collaboration and catalyzing advancements in the field of advanced polymer injection molding design and processing, without explicit mention of keywords in the abstract.

Guest Editors

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Deadline for manuscript submissions

31 January 2026

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/195875

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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
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