

Special Issue

Advances in Olefin Polymerization and Polyolefin

Message from the Guest Editor

This Special Issue, entitled “Advances in Olefin Polymerization and Polyolefin”, focuses on recent developments in the synthesis, characterization, processing, and applications of polyolefin materials. The Issue welcomes both fundamental and applied studies related to catalyst development, polymerization technologies, material performance, and sustainable polyolefin solutions. Topics of interest include:

- Catalyst design for olefin polymerization;
- Ziegler–Natta, metallocene, and post-metallocene catalysts;
- Polymerization mechanisms and kinetics;
- Ethylene, propylene, and α -olefin polymerization;
- Copolymerization and functionalized polyolefins;
- Structure–property relationships in polyolefins;
- Polymer processing, rheology, and crystallization behavior;
- Polyolefin nanocomposites and advanced materials;
- Sustainable, recyclable, and bio-based polyolefins;
- Industrial innovations and emerging applications in polyolefin technology.

Guest Editor

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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 4.9.

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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