

Special Issue

Enzymatic Synthesis and Characterization of Polymers

Message from the Guest Editors

The Special Issue “Enzymatic synthesis of polymers” will focus on the latest developments in the field of biocatalytic in vitro synthesis of new polymeric and oligomeric compounds in various reaction media, fine tuning of the enzyme polymerization specificity by immobilization, as well as advanced methods of process monitoring, characterization, and utilization of the synthesized polymers and copolymers. Original papers and reviews are welcome in the following main (but not exclusive) topics:

- Utilization of bio-based resources for sustainable enzymatic polymer synthesis;
- Advancement in the capability of isolated enzymes to catalyze polymerization and copolymerization reactions in vitro;
- New block copolymers by chemoenzymatic processes;
- The role of immobilization for improving the process parameters and allowing continuous processes;
- Utilization of ionic liquids, deep eutectic solvents, and other nonconventional reaction media for enzymatic polymerizations in vitro;
- Modification of carbohydrates and lignin-based compounds by enzyme-catalyzed polymerization;

Guest Editors

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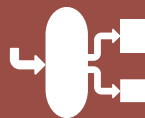
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