Special Issue

Organic Catalyst in Polymer Synthesis

Message from the Guest Editor

Over the past two decades, organocatalysis has emerged has an efficient tool for polymer synthesis through various mechanisms either through step-growth (transesterification, benzoin condensation, epoxies, etc.) or chain growth (ring-opening, anionic, cationic, etc.) pathways. The almost infinite combination of organic compounds has allowed polymerizations with fast kinetics and good control of polymer chain length and functionality, sometimes with stereo selectivity. Even ring-opening metathesis polymerization can now be achieved without the requirement of organometallic complexes. All these developments have driven the design of new polymer architectures (cyclics, stars, branched, block-copolymers, etc.) with a precise control of the arrangement of monomer units within the polymer chain. More recently, the use of external (light, temperature, ultrasound) or internal (pH, CO2) stimuli to trigger or regulate the course of the polymerization has paved the way toward new applications for organocatalysis. This Special Issue thus aims to collect the most advanced results regarding the synthesis, modification or recycling of polymer materials by employing organic catalysts.

Guest Editor

Dr. Julien Pinaud

Institut Charles Gerhardt Montpellier, ICGM UMR 5253, Univ. Montpellier, CNRS, ENSCM, Montpellier, France

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

mdpi.com/journal/polymers

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

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