

Special Issue

Porous Organic Polymers (POPs)—Synthesis, Design, Structural Characterization and Application

Message from the Guest Editors

Porous organic polymers (POPs) represent a group of organic macromolecular materials built from organic precursors connected by strong covalent bonds into a porous framework. There are several subclasses of POP materials: COFs (covalent organic frameworks), PAFs (porous aromatic frameworks), CMPs (conjugated microporous polymers), HCPs (hypercrosslinked polymers), and others. These materials are characterized by excellent physiochemical properties, good thermal stability, large surface areas, and designable pore size and pore characteristics. Within this Special Issue of *Polymers* we aim to collect novel results and potential applications in this emerging field of porous materials. Potential topics for this Special Issue include the synthesis, design and functionalization of POPs (preparation and design of novel monomeric precursors, mechanochemical synthesis, imine-based polymeric materials, post-synthetic modifications), characterization (spectroscopy, thermal analysis, molecular modeling, adsorption analysis) and application (gas adsorption, energy storage, sensors, catalysis).

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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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