

Special Issue

Porous Organic Polymers for Adsorption, Storage, Separation and Catalysis

Message from the Guest Editor

Porous organic polymers (POPs) have recently emerged as smart materials for carbon capture, storage, separation, and catalysis. These materials have gained significant interest in the scientific communities because of their low density, high stability, large surface area, and the possibility to customize their pore volume, size, and modifications. POPs have also gained significant attention in catalysis. Using POPs, three different sorts of catalysis can be achieved: organocatalysis, homogenous metal complex-based catalysis, and nanoparticle-based catalysis. The aim of this Special Issue is to collect articles describing POPs synthesis and applications in carbon capture, storage, separation, and catalysis. From a materials' perspective, amorphous as well as crystalline porous materials are of interest. Regarding applications, the scope of the POPs will be extended to dye adsorption, separation of organic pollutants, and chiral separation, in addition to carbon capture, storage, and separation. Organic transformation and the catalytic reactivity of POPs in flow synthesis photocatalysis and electrocatalysis will also be covered in this Special Issue.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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