Special Issue

Potential Applications of Functional Porous Organic Frameworks

Message from the Guest Editors

Porous organic frameworks (POFs) are novel porous materials that are known for their large surface area, versatile structure, and high thermal/chemical stability. Due to their intriguing and tailorable structures, they are widely deployed in catalysis, gas separation, molecule storage, and many other valuable applications. This Special Issue illustrates recent progress on POFs and POF derivatives, including their design, synthesis, and applications. We aim to conduct a detailed correlation investigation between the structural and chemical features of POFs and their potential functions. The significant advantages (and disadvantages) and opportunities of POFs are reported for the development of next-generation porous materials in the future for practical applications.

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As the premier open access journal dedicated to molecular chemistry, now in its 30th 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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