Special Issue

Design and Application of Hydrogen-Bonded Organic Frameworks (HOFs)

Message from the Guest Editors

The focus on Hydrogen-bonded Organic Frameworks (HOFs) in this Special Issue highlights their emerging importance in porous materials. Unlike their more established counterparts, Metal–Organic Frameworks (MOFs) and Covalent Organic Frameworks (COFs), HOFs are characterized by their unique flexible structures and enhanced photo-electronic properties. These characteristics open up many applications, ranging from gas storage and separation to catalysis, sensing, and drug delivery, where the adaptability of HOFs can be leveraged to optimize performance. The Special Issue aims to catalyze the growth of this exciting field by consolidating knowledge, inspiring new research directions, and facilitating the development of HOF-based technologies that can impact various sectors, from environmental remediation to healthcare and beyond.

Guest Editors

Dr. Peng Li

Shanghai Key Laboratory of Molecular Catalysis and Innovative Materials, Department of Chemistry, Fudan University, 2005 Songhu Road, Shanghai 200438, China

Prof. Dr. Zhangjing Zhang

Fujian Provincial Key Laboratory of Polymer Materials, College of Chemistry and Materials Science, Fujian Normal University, 32 Shangsan Road, Fuzhou 350007, China

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

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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