Special Issue

Recent Advances in Covalent Organic Frameworks

Message from the Guest Editor

Over the past decade, great efforts have been invested in developing covalent organic frameworks (COFs). Due to their notable intrinsic features, such as a predesignable and highly order structure, low density, exceptional stability, high surface area, and readily adjustable pore size and chemical environment, COFs have been proposed as ideal materials for wide-ranging applications, including in gas adsorption and separation, optoelectronics, drug delivery, heterogeneous catalysis, sensing, and energy storage. In addition, due to COFs' processability, COF-based composites/devices, including membranes, films, electrodes, etc., have recently received substantial attention. This Special Issue is inspired by the growing interest and application of COFs and aims to identify and review the recent developments and breakthroughs in these fields. We invite original contributions as well as review articles relating the synthesis, characterization, and application of COFs and hope to provide new insights and ideas that prompt the further development of COFs.

Guest Editor

Prof. Dr. Hao-Long Zhou

Department of Chemistry and Key Laboratory for Preparation and Application of Ordered Structural Materials of Guangdong Province, Shantou University, Shantou 515063, China

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

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Message from the Editor-in-Chief

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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