

Special Issue

Molecule-Based Crystalline Materials

Message from the Guest Editor

Molecule-based crystalline materials, including metal-organic frameworks (MOFs), covalent-organic frameworks (COFs), and supramolecular organic frameworks (SOFs), possess a highly specific surface area, well-defined and ordered pores, variable structures, and tunable chemical functionalities, attracting great attention for their potential applications in molecule adsorption and separation, photo/electrocatalysts, biomedical engineering and optical/electric devices and sensors, and so on. This Special Issue aims to provide an overview of recent discoveries of the synthesis and functions of molecule-based crystalline materials, including new designs of MOFs, COFs, SOFs, and other molecule-based complexes, the study of their growth mechanics, and their potential applications in a broad range of fields.

Guest Editor

Prof. Dr. Zhi-Gang Gu

State Key Laboratory of Structural Chemistry, Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, Fuzhou 350002, China

Deadline for manuscript submissions

closed (30 April 2023)



Molecules

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Impact Factor 4.6
CiteScore 8.6
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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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