



Molecule-Based Crystalline Materials, 2nd Edition

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:

31 August 2024

Message from the Guest Editor

Dear Colleagues,

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 application 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 the recent discoveries of the synthesis and functions of molecule-based crystalline materials, including new MOF, COF, SOF, and other molecule-based complex designs, the study of their growth mechanics, and their potential application in a broad range of fields.

Prof. Dr. Zhi-Gang Gu
Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (*Chemistry (miscellaneous)*)

Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](#)