

Special Issue

Molecule-Based Crystalline Materials, 2nd Edition

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 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.

Guest Editor

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Message from the Editor-in-Chief

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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