



Covalent Organic Frameworks and Related Porous Organic Materials

Guest Editors:

Dr. Felipe Gándara

Department of New Architectures
in Materials Chemistry, Instituto
de Ciencia de Materiales de
Madrid (ICMM-CSIC), Sor Juana
Inés de la Cruz 3, Cantoblanco,
Madrid, Spain

Dr. Praveen Thallapally

Pacific Northwest National
Laboratory, Physical and
Computational Sciences
Directorate, Richland WA, USA

Deadline for manuscript
submissions:

closed (31 May 2017)

Message from the Guest Editors

Dear Colleagues ,

Covalent organic frameworks (COFs) are a class of materials that exhibit high surface area, pore volume and extended network topologies. They are built through the formation of strong covalent bonds between rigid organic building blocks. COFs are synthesized using various organic condensation reactions, and they have found application in many fields of interest, such as gas storage, separation, sensing, optoelectronics, catalysis, and more. Furthermore, COFs have inspired the development of other porous organic materials with extended structures, which despite lacking crystallinity, they have interesting properties arising from the choice of their building components, the type of chemical bond that they form, or presence of chemical functionalities that decorate their pores. This Special Issue aims to cover different aspects of the chemistry of COFs and related porous organic materials, ranging from the study of synthetic methodologies, structural design, chemical modification, or evaluation of their properties.

Dr. Felipe Gándara

Dr. Praveen Thallapally

Guest Editors





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](https://twitter.com/Molecules_MDPI)