Special Issue

Covalent Organic Frameworks and Related Porous Organic Materials

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.

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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.

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