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Covalent Organic Frameworks and Related Porous Organic Materials

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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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Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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