

Special Issue

Preparation and Application of MOF Materials

Message from the Guest Editor

A proton conductor is a unique type of electrolyte that allows protons to pass through quickly and can effectively block electron transport. They have been widely used in solid-state electrochromic displays, hydrogen sensors, fuel cells, catalytic synthesis, biological probes, humidity sensors and other fields. For decades, the synthesis of excellent proton conductors has been of interest to scholars. Metal–organic frameworks (MOFs) are a type of crystalline porous material. Their channels are convenient for proton transport, and the structures are designable and controllable, which opens up new possibilities for researchers to explore the synthesis of new proton conductors. Furthermore, the microstructure of MOFs is clear, indicating that they can provide a favorable platform for the study of the proton conduction mechanism.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2022)



Molecules

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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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