Special Issue

Metal Organic Frameworks: Design, Synthesis and Application

Message from the Guest Editors

Metal–organic frameworks (MOFs) have attracted a great deal of attention for a variety of applications owing to their high adsorption capacities relative to other porous materials. By use of different organic and inorganic constituents, MOFs can be synthesised in a variety of sizes, morphologies, and with different porosities and surface functionalities. Accordingly, MOFs and their derivatives have been employed in many applications such as clean energy storage (e.g., batteries, catalysis, supercapacitors) and water remediation. Similar to that on other technologies, research on MOFs in the upcoming two or three decades will move towards the direction where MOF materials can deliver societal benefits by solving real-world challenges. Taking technology from laboratory to applications is always a mammoth task to deal with. This Special Issue brings together the scattered literature and experimental observations that address the design, production, and the use of MOF materials in a variety of applications.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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