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Metal-Organic Frameworks and Related Porous Materials for Catalytic Applications and Related Areas

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Message from the Guest Editors

Metal-organic frameworks (MOF's), also known as porous coordination polymers (PCP's), have gained significant interest in the last few decades as a novel category of porous and well crystalline materials, and have achieved a rapid development for diverse applications like catalysis, energy storage and conversion, etc. In addition, MOFs have been intensively employed as templates/precursors for the synthesis of diverse porous materials including porous carbons, with unique advantages in comparison to traditional porous materials, by (1) providing simple synthesis methodologies, (2) guaranteeing high flux mass-transfer and easy accessibility of active sites, (3) optimizing catalytic performance by exposure of high-density active sites and modulating the local electronic structures, and (4) favoring the establishment of structure–performance relationship. Thus, the main aim of this Special Issue is to highlight novel developed MOF's and MOF-derived porous materials strategies designed to promote catalysis and related areas. Therefore, original research papers and reviews providing new insights into this area are welcome.



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Special Issue