Special Issue

Advanced Catalysis Technologies Using Metal-Organic Frameworks (MOFs)

Message from the Guest Editor

Metal–organic frameworks (MOFs) are a class of crystalline materials composed of metal ions or clusters coordinated to organic ligands, forming highly porous structures. Their exceptional surface area, tunable pore size, structural diversity, and chemical versatility make MOFs ideal candidates for advanced catalysis technologies.

Recent trends have also focused on MOF-derived materials, where MOFs are used as precursors to create porous carbons, metal oxides, metal sulfides, and composite nanostructures with outstanding catalytic properties after thermal or chemical treatment. Overall, MOF-based catalysis technologies are revolutionizing the field of heterogeneous catalysis by offering unprecedented control over structure, composition, and functionality at the molecular level.

Guest Editor

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