Special Issue

Advanced Metal-Organic Frameworks-Based Materials: Photocatalytic Properties and Their Applications

Message from the Guest Editor

Metal–organic frameworks (MOF), as a class of newly emerged crystalline coordination network built from metal ions and organic bridging ligands, possess abundant unique properties, such as tunable structures, tailorable functionalities, high porosity, large surface areas, intriguing framework architectures, and high chemical/mechanical stability. MOF-based materials have been widely investigated and applied in catalysis, energy storage and conversion, and gas storage and separation. In recent years, MOF-based materials have become a powerful platform to construct efficient photocatalyst systems with diverse and even incompatible functionalities because of their unique excitation and charge transition mechanisms. This Special Issue intends to present some of the most relevant progress on the design and development of MOF-based materials and their photocatalytic applications. The Special Issue will significantly benefit from the contribution of original research articles and critical review articles in this scientific field.

Guest Editor

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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