

Special Issue

Recent Progress in Mixed-Metal Metal–Organic Framework: Synthesis, Characterization, Properties, and Their Magnetic Properties

Message from the Guest Editor

Mixed-metal metal–organic frameworks (MM-MOFs) have shown promise in enhancing the physicochemical properties of traditional MOFs, leading to exceptional performance in multiple applications such as gas adsorption/separation, heterogeneous catalysis, and as materials for cathodes, anodes, photosensitizers, and sensors. Notably, the incorporation of diverse metal centers in MM-MOFs has opened up opportunities to tailor magnetic properties, resulting in frameworks with tunable magnetic behavior ranging from paramagnetism to ferromagnetism. This ability to customize magnetic interactions through metal selection and coordination geometry has made MM-MOFs particularly appealing for applications in magnetic sensing, data storage, and spintronic devices. Despite the early stage of research in this field, there is a need for regular updates on the recent trends and groundbreaking achievements in the design, synthesis, fabrication, and application of MM-MOFs, particularly in exploiting their magnetic properties alongside traditional functionalities.

Guest Editor

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