

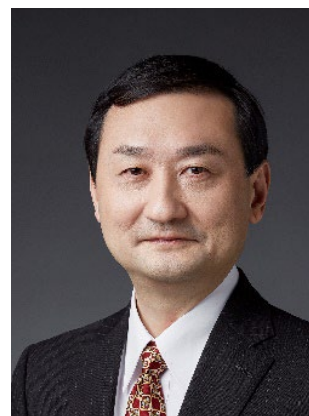


GESELLSCHAFT DEUTSCHER CHEMIKER

Ortsverband Frankfurt

Metal-organic frameworks for catalysis and energy

Recently, we have successfully synthesized a number of porous metal-organic frameworks (MOFs) and developed their new applications as catalysts, as supports for metal nanoparticles and as templates/precursors for synthesis of nanostructured materials. Porous carbons and carbon composite materials have been synthesized by using MOFs as templates/precursors and the resultant materials display high specific surface areas and excellent electrochemical properties as electrode materials for electric double-layered capacitor (EDLC) and as electrocatalysts for various reactions. This talk will discuss the catalytic and energy applications of MOF-derived nanomaterials.



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