Special Issue

Metal–Organic Framework Based Composites

Message from the Guest Editor

In recent years, the spectrum of the properties and consequently of the potential applications of MOFs has been further significantly extended by the advent of composites, involving MOFs in combination with other functional materials or molecules. As expected, such composites bring together the properties of the constituent materials, making it possible, for example, to compensate for the shortcomings of MOFs, such as their limited chemical stability and/or mechanical strength.The most promising examples of such composites involve MOFs integrated with carbon-related materials (activated carbon, nanotubes, graphene, graphene oxide, nanodots), amorphous silicon dioxide (nanoparticles, mesoporous silica), metal nanoparticles, magnetic and/or luminescent nanoparticles, functional molecules, etc. The current Materials Special Issue is mainly focused on the recent progress in synthesis and characterization of MOF composite materials, with the intent to bring out the most promising hybrid systems and their outstanding properties.

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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