Special Issue

Environmental Applications of Metal-Organic Frameworks

Message from the Guest Editors

Metal-organic frameworks (MOFs) have become a permanent part of technologies that are useful to humans. The crystalline structures in which metal ions are coordinated as nodes with organic ligands as linkers are used in separation, catalysis, photocatalysis, and biodetection, among other things. MOFs are being increasingly used to capture greenhouse gases (GHGs) via physical adsorption. The efficient sorption of hydrocarbons with MOF adsorbents is also one of the most desired methods for energy storage. The continuous development of metal–organic frameworks and the synthesis of new materials of this type make it possible to continuously increase the efficiency of their use in environmental applications. Original scientific articles and review articles are welcome.

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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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