Special Issue

Design, Synthesis and Applications of Organic Framework Materials

Message from the Guest Editor

As a new kind of key material, porous organic polymer materials merging multiple features of polymers and porous materials have promptly obtained widespread interest. Especially, porous polymer materials such as covalent organic frameworks (COFs), hydrogen-bonded organic frameworks (HOFs), metal organic frameworks (MOFs), polymers of intrinsic microporosity (PIMs), conjugated microporous polymers (CMPs), hypercrosslinked polymers (HCPs) and macroporous polymers from high-internal-phase emulsions (HIPEs) have been widely exploited as promising materials for electrochemistry, electronic devices, gas sorption, storage and separation, organic molecules adsorption, optoelectronics, sensing, pollutant removal, heterogeneous catalysis, environmental remediation and water treatment. Although great progress has been made, this field of research is still in its early stages. Therefore, new strategies for the design and synthesis of these above-mentioned porous polymer materials are urgently needed. This Special Issue plans to give an overview of the most recent advances in the field of porous organic polymer materials.

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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