Special Issue

Porous Materials for Biomedical Applications

Message from the Guest Editor

Porous materials featuring high surface areas, narrow pore size distribution, and tunable pore diameters have attracted a great deal of attention due to their relevant properties and applications in various areas including adsorption, separation, sensing, catalysis, pollutant removal, CO2 capture, energy storage, catalytic oxidation and reduction processes, conversion of biomass to biofuels, and drug delivery. Due to the development of a wide range of these materials with varying morphologies (e.g., hexagonal, cubic, rod-like), chemistry (e.g., silicates, carbons, metal oxides, hybrid materials, metal-organic frameworks), and functionalities, this field is currently one of the most advanced in materials science. This Special Issue aims to collect novel research studies or comprehensive review papers in the fields of synthesis, design, characterization, modeling, and applications of porous materials and their biomedical applications.

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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