Special Issue

Properties and Applications of Zeolites and Related Porous Materials

Message from the Guest Editor

Zeolite is an aqueous aluminosilicate mineral with connected pores and a shelf-like structure. The special crystal chemical structure makes zeolite have excellent performance and environmental properties such as ion exchange, efficient selective adsorption, catalysis, acid resistance, heat resistance and radiation resistance. Zeolite has good application prospects in the pretreatment process of organic matter removal, ammonia nitrogen removal, heavy metal ion removal, fluorine and phosphorus removal, among others, in wastewater. Especially important, the adsorption and ion exchange properties of natural zeolite combined with the filtration, adsorption and biological metabolism functions of the filter can better remove NH3N, organic matter, suspended substrances and chromaticity in sewage. Using zeolite and related porous materials as water treatment filter materials, is expected to increase the research and development of economical and efficient new water treatment technologies and processes, which is of great practical significance for solving the increasingly severe problems of water environmental pollution and water shortage in the world.

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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