

Special Issue

Zeolite and Zeolite-Like Nanoparticles: Synthesis, Properties and Applications

Message from the Guest Editors

Zeolites are crystalline microporous materials with well-defined channels and tunable cavities that enable shape-, size- and polarity-based molecular selectivity in various applications. Metal organic frameworks, also known as zeolite-like materials, share similar porous features with zeolites but possess larger pore sizes and more diverse frameworks constituted of inorganic building units and organic linkers. Recently, nanosized zeolite materials have drawn much attention due to increased external surface area, shorter diffusion pathlength, colloidal stability and unique electronic and optical properties. These nanoparticles have been applied in many applications, such as thin films, sensors, catalysts, adsorbents, optics, drug delivery carriers, etc. In this Special Issue, we welcome submissions on all aspects of zeolite and zeolite-like nanoparticles. In particular, we embrace manuscripts deepening our insights into the development of environmentally benign synthesis and modification methods, characterizations and development of advanced structured or multifunctional nanozeolite materials and interdisciplinary applications of nanozeolites.

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