Special Issue

Nanosized Zeolites and their Applications

Message from the Guest Editor

Zeolites have been widely applied as adsorbents, catalysts, advanced novel materials, etc., owing to their unique physicochemical characteristics, such as ion exchange and adsorption-desorption properties. Nanosized zeolites efficiently improve these properties due to the increased specific surface area. This Special Issue of *Nanomaterials* invites contributions in synthesis and applications of functionalized nanozeolites, nanoscale zeolite materials, nano-crystal size of ZSM-5, nanostructured catalysts, flexible films and membranes for medicine, environmental, sensor applications, etc. Contributions are welcomed in synthetic novel nanocomposites with a zeolitic framework and high exterior surface area, shorter pore pathway, high cationic exchange capacity, water holding capacity, and catalytic activity.

Guest Editor

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Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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