Special Issue

Novel Applications of Zeolites in Adsorption Processes

Message from the Guest Editors

When it was discovered, zeolite was deemed to be a weird rock that releases vapor when heated. Nowadays, zeolites are widely used in various ways. The unique 3D microporous crystalline structure with large specific surface area and thermally stable lattice of this aluminosilicate mineral allows the presence not only at the surface but inside of the uniform-sized cavities and channels for different ions, atoms, and nano-sized particles. This makes this mineral applicable across various fields. Due to their structure, zeolites are widely used in processes such as adsorption, ion exchange, catalysis, as molecular sieves, in microbiology, etc. Furthermore, zeolites are readily available, cost-effective, and environmentally friendly, which are the additional reasons for the applicability of these minerals. This Special Issue of Processes devoted to zeolites is themed on scientific contributions and review studies from the zeolite application in adsorption presents the topic, but research dedicated to zeolite structure research, surface modifications, and environmental protection is also welcome.

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