



## Properties and Applications of Zeolites and Related Porous Materials

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### Message from the Guest Editor

Dear Colleagues,

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  $\text{NH}_3\text{N}$ , organic matter, suspended substances 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.





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## Message from the Editor-in-Chief

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