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These zeolites can be applied to a variety of chemical transformations without wastes and by-products, thus making them ecologically more acceptable and environmentally safer. TS-1 is a titanosilicate zeolite where Ti is introduced into the framework of zeolites of the MFI structure.

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Applications of Zeolites to C1 Chemistry: Recent Advances, Challenges, and Opportunities. Qiang Zhang. State Key Laboratory of Inorganic Synthesis and Preparative Chemistry, College of Chemistry, Jilin University, 2699 Qianjin Street, Changchun, 130012 P. R. China.

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Methods of producing zeolites greenly and efficiently, such as organic-template-free synthesis, ionothermal synthesis, solvent-free synthesis, and microwave synthesis, etc., have attracted much attention recently. 97 In particular, the production of zeolites from fly ash, a main by-product generated from coal combustion, has been commercialized in several countries. 98 On the other hand, the ...

Applications of Zeolites in Sustainable Chemistry ...

In this Research Topic, we aim to collect many contributions covering all aspects of zeolite chemistry, ranging from their synthesis, shaping for real world applications, as well as their practical use in different fields: adsorption, ion-exchange and catalysis. Areas to be covered in this Research Topic may include, but are not limited to: • New strategies to synthesize zeolites or related ...

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Zeolites are widely used as ion-exchange beds in domestic and commercial water purification, softening, and other applications. In chemistry, zeolites are used to separate molecules (only molecules of certain sizes and shapes can pass through), and as traps for molecules so they can be analyzed. Zeolites are also widely used as catalysts and ...

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