

Zeolites In Sustainable Chemistry Synthesis Characterization And Catalytic Applications Green Chemistry And Sustainable Technology

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Zeolites in Sustainable Chemistry | SpringerLink

A sustainable route is now reported for synthesizing pure silica zeolites in the absence of OSDAs from a combined strategy of zeolite seeding and alcohol filling, where the zeolite seeds direct crystallization of zeolite crystals from amorphous silica, while the alcohol is served as pore filling in the zeolites.

Zeolites in Sustainable Chemistry - Synthesis ...

This book is devoted to the new development of zeolitic catalysts with an emphasis on new strategies for the preparation of zeolites, novel techniques for their characterization, and emerging applications of zeolites as catalysts for sustainable chemistry, especially in the fields of energy, biomass conversion, and environmental protection.

Zeolites In Sustainable Chemistry Synthesis

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Sustainable Synthesis of Pure Silica Zeolites from a ...

Although zeolites have found many sustainable applications, their large-scale production is not a very energy-efficient process. Today, most industrially produced zeolites come from hydrothermal synthesis, which requires high pressure and reaction times of days.

Applications of Zeolites in Sustainable Chemistry: Chem

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Applications of Zeolites in Sustainable Chemistry

Direct Synthesis of Zeolites from a Natural Clay, Attapulgitite | ACS Sustainable Chemistry & Engineering Presently, chemical Si/Al sources are predominantly used as raw materials for the synthesis of zeolites in spite of their high cost.

Zeolite Chemistry and Applications | Frontiers Research Topic

His research interests comprise: synthesis of zeolites, mesoporous and novel nano-structured materials, physical chemistry of sorption and catalysis, and investigation of the role of porous catalysts in transformations of hydrocarbons and their derivatives.

Amazon.com: Zeolites in Sustainable Chemistry: Synthesis ...

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Zeolites In Sustainable Chemistry Synthesis ...

Xiangju Meng is an Associate Professor at the Department of Chemistry, Zhejiang University, China. Keywords Biomass conversion Catalytic reduction Environmentally friendly zeolites Fluid catalytic cracking Interlayer expansion Ionothermal synthesis Mesostructured zeolites Solid-state NMR Structure determination Zeolite thin films and membranes

Zeolites in Sustainable Chemistry: Synthesis ...

Zeolites are a family of crystalline materials with orderly distributed micropores in molecular dimensions. As the most important solid catalysts used in traditional petrochemical industries, zeolites are also finding promising applications in many sustainable processes given their unique shape selectivity, adsorption and ion-exchange capability,...

Solvent-Free Synthesis of Zeolites: Mechanism and Utility ...

used in traditional petrochemical industries, zeolites are also finding promising applications in many sustainable processes given their unique shape selectivity, adsorption and ion-exchange capability, high hydrothermal stability, tunable acidity and polarity, and low production costs.

Zeolite Synthesis - an overview | ScienceDirect Topics

Generally, zeolites are prepared from solvothermal synthesis in the presence of a large amounts of solvents such as water and alcohols in sealed autoclaves under autogenous pressure.

Zeolites in sustainable chemistry: Synthesis ...

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9783662473948: Zeolites in Sustainable Chemistry ...

Zeolite synthesis is an active field of research because zeolites with uniform micropores are important in many industrial processes in catalysis, adsorption and separation and are finding new applications in electronics, magnetism, chemical sensors, medicine, etc. [1-8]. Since the pioneering work by Barrer and Milton in the 1940s, there has been much progress during the last 60 years in the synthesis of zeolites.

Zeolites in Sustainable Chemistry : Synthesis ...

Discover the world's research. The modern synthesis of zeolites mainly involves the use of organic templates, the addition of solvent, the preparation of starting gels, and the heating of the gels. Each step could be made greener in the future.

Direct Synthesis of Zeolites from a Natural Clay ...

Synthetic zeolites are widely used as catalysts/carriers for many chemical reactions as well as in refining processes. Those amazing materials remain the world largest catalysts produced for industrial applications. In this Research Topic, we aim to collect many contributions covering all aspects of zeolite chemistry,...

Applications of Zeolites in Sustainable Chemistry ...

This report summarizes sustainable routes for synthesizing zeolites, such as the use of cheap and nontoxic organic templates, organotemplate-free synthesis, solvent-free synthesis, and a combined strategy with the organotemplate-free and solvent-free routes.

110th Anniversary: Sustainable Synthesis of Zeolites: From ...

This book is devoted to the new development of zeolitic catalysts with an emphasis on new strategies for the preparation of zeolites, novel techniques for their characterization, and emerging applications of zeolites as catalysts for sustainable chemistry, especially in the fields of energy, biomass conversion, and environmental protection.