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introduction to field,
covering synthesis,
structure,
characterisation and
applications. Beginning
with the history of
natural and synthetic
zeolites, the reader will
learn how zeolite
structures are formed,
synthetic routes, and
experimental and
theoretical structure
determination
techniques.

Zeolites in Catalysis

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(RSC Publishing)

Applications of nanocrystalline zeolites and zeolite structures in the selective catalytic reduction of NO_x and the photoreduction of Cr(VI) to Cr(III) in aqueous solution were investigated. The unique properties and reactivity of nanocrystalline zeolites and the potential for future applications of these materials will

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also be discussed.

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Synthesis ...

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Chemistry: Synthesis,
Characterization and
Catalytic Applications
(Green Chemistry and
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reprint of the original
1st ed. 2016 Edition by
Feng-Shou Xiao
(Editor), Xiangju Meng

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(Series Editor)

Applications
**Zeolites in
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Chemistry:
Synthesis ...**

Besides their traditional applications in the chemical industry, zeolites are playing an increasingly important role in many sustainable processes, particularly in the fields of renewable energy and environmental improvement, such as

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biomass conversion,
fuel cell, thermal
energy storage, CO₂
capture and
conversion, air-
pollution remediation,
and water purification.
In this review, we
present the recent
progress in zeolite
applications in
sustainable chemistry,
and the key challenges
in ...

Applications of Zeolites in

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**Sustainable
Chemistry ...**

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

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used as catalysts and sorbents.

Zeolite - Wikipedia

Chemistry of Silica and Zeolite-Based Materials covers a wide range of topics related to silica-based materials from design and synthesis to applications in different fields of science and technology. Since silica is transparent and inert to the light, it is a very attractive host material for constructing

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Chemistry And
artificial
photosynthesis
systems.

Chemistry of Silica and Zeolite-Based Materials ...

Small-pore zeolites possess pores that are constructed of eight tetrahedral atoms (Si^{4+} and Al^{3+}), each time linked by a shared oxygen. These eight-member ring pores (8MR) provide small molecules access to

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the intracrystalline void space, e.g., to NO_x during car exhaust cleaning (NO_x removal) or to methanol en route to its conversion into light olefins, while restricting larger molecule entrance and departure that is critical to overall catalyst performance.

Small-Pore Zeolites: Synthesis and Catalysis | Chemical

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Most importantly, hierarchically structured zeolites offer an effective solution to the mass transport problem associated with conventional zeolites in catalysed reactions because they combine the catalytic features of micropores and the improved accessibility and increased molecular transport related to the addition of several porosities

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within a single body. In recent years, many strategies have been successfully developed to synthesize hierarchically structured zeolitic materials.

Hierarchically structured zeolites: synthesis, mass ...

Zeolites are highly efficient solid catalysts used in the chemical industry. The design and development of

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zeolite-based mono-, bi-, and multifunctional catalysts has led to a booming application of zeolite-based catalysts to C1 chemistry.

Applications of Zeolites to C1 Chemistry: Recent Advances ...

Zeolites are used in a variety of applications worldwide due to their unique porous properties. Their applications comprise

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different areas of
industry inclusive of
technology and
environmental
remediation such as
pollution control and
disposal of hazardous
materials.

A Review of the Chemistry, Structure, Properties and ...

Zeolite beta is an
intergrowth of two or
three polymorphs,
including chiral

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polymorph-A, achiral polymorph-B, and polymorph-C. Chiral polymorph-A of zeolite beta is highly desired because of its potential applications in enantioseparation and asymmetric catalysis. However, it is still impossible to obtain the pure polymorph-A of zeolite beta.

**Chiral zeolite beta:
structure, synthesis,
and application ...**

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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.

Zeolite Chemistry and Applications | Frontiers Research Topic

Zeolites are

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aluminosilicate solids bearing a negatively charged honeycomb framework of micropores into which molecules may be adsorbed for environmental decontamination, and to catalyse chemical reactions. They are central to green-chemistry since the necessity for organic solvents is minimised.

Properties and
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Synthesis of
Nanocrystalline
MFI-Zeolites with
Intracrystal Mesopores
and Their Application in
Fine Chemical

Synthesis Involving
Large Molecules
Rajendra Srivastava Dr.
Division of Chemical
Process Engineering,
Graduate School of
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University, Sapporo,
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Applications
**Synthesis of
Nanocrystalline
MFI-Zeolites with ...**

The first part deals with the synthesis, modification, characterization and application of catalytic active zeolites, while the second focuses on such reaction types as cracking, hydrocracking, isomerization, reforming and other

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and Related Porous
Materials: Synthesis
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Widely used in
adsorption, catalysis
and ion exchange, the
family of molecular

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sieves such as zeolites has been greatly extended and many advances have recently been achieved in the field of molecular sieves synthesis and related porous materials.

Chemistry of Zeolites and Related Porous Materials ...

The first part deals with the synthesis, modification, characterization and

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application of catalytic active zeolites, while the second focuses on such reaction types as cracking, hydrocracking,...

Zeolites and Catalysis : Synthesis, Reactions and Applications

Technology

The first part deals with the synthesis, modification, characterization and application of catalytic active zeolites, while

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the second focuses on
such reaction types as
cracking,
hydrocracking ...

Zeolites and Catalysis: Synthesis, Reactions and Applications

Chemical
Engineering
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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

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and emerging
Applications of zeolites
as catalysts for
Materials Science
sustainable chemistry,
And Technologies
especially in the fields
of energy, biomass
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