

## Solid Acid Catalysis From Fundamentals To Applications

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### Solid Acid Catalysis From Fundamentals

Solids that possess acidic properties on their surfaces function as catalysts just like liquid acids, such as sulfuric acid and hydrochloric acid. By using soli Solid Acid Catalysis: From Fundamentals to Applications - 1st Edition

### Solid Acid Catalysis: From Fundamentals to Applications ...

The initial two chapters describe fundamentals of solid acid catalysis, including historical development, generation of acid sites, definition of acidic properties on the surface, and roles of acid...

### Solid acid catalysis: From fundamentals to applications ...

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### Solid Acid Catalysis: From Fundamentals to Applications 1 ...

In a solid acid catalyst system, on the other hand, the solvent needs to dissolve only the reactant, or the reaction can be carried out without any solvent. The reaction at a high temperature is beneficial for the endothermic reactions where the equilibrium favors formation of the products at a high temperature.

### Solid acid catalysis : from fundamentals to applications ...

1. Introduction -- 2. Solid acid catalysis -- 3. Characterization of solid acid catalysts -- 4. Catalytic properties of solid acid catalysts -- 5. Hydrocarbon transformation : mechanism and industrial processes -- 6. Synthesis of organic chemicals through solid acid catalysis

### Solid acid catalysis : from fundamentals to applications

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### Solid acid catalysis : from fundamentals to applications ...

Solids that possess acidic properties on their surfaces function as catalysts just like liquid acids, such as sulfuric acid and hydrochloric acid. By using solid acid catalysts, chemical processes become more productive and more environmentally friendly. In fact, solid acids are being used in many industrial chemical processes from the largest chem

### Solid Acid Catalysis | Taylor & Francis Group

Solid acids are acids that do not dissolve in the reaction medium. They are often used in heterogeneous catalysts.. Examples. Most solid state acids are organic acids such as oxalic acid, tartaric acid, citric acid, maleic acid, etc. Examples include oxides, which function including silico-aluminates (zeolites, alumina, silico-alumino-phosphate), and sulfated zirconia.

### Solid acid - Wikipedia

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Known representative solid acid catalysts include Nafion ®-H, sulfated zirconia(VI), and montmorillonite K10. Other options for the solid acid catalyst are Dowex ® 50W-X8 or 50W-X2 or Duolite ® C20. It is also possible to use vermiculite or heteropolyacid, or even a zeolite catalyst such as MCM-22.

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