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Zeolite Catalyzed Isomerization Of 1

Zeozymes : Sn-Beta zeolite is found to be a highly active catalyst for the conversion of triose sugars. If the solvent is water, isomerization of the triose sugars takes place to form lactic acid in 90 % yield at 125 °C. If methanol is used as the solvent, an overall isomerization-esterification reaction takes place and methyl lactate is formed

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in quantitative yields at 80 °C.

Zeolite-Catalyzed Isomerization of Triose Sugars ...

Abstract. Details of the double-bond isomerization of 1-hexene over H-ZSM-5 were clarified using density functional theory. It is found that the reaction proceeds by a mechanism which involves the Brønsted acid part of the zeolite solely. According to this mechanism, 1-hexene is first physically adsorbed on the acidic site, and then, the acidic proton transfers to one carbon atom of the ...

Zeolite-catalyzed Isomerization of 1-Hexene to trans-2 ...

We take Pt/Beta catalyzed isomerization of n-heptane as the model system to explore the role of internal diffusion barriers in zeolite catalysis. The two as-synthesized Pt/Beta catalysts have an identical Pt loading, similar Beta particle size and acidity, but different internal structures.

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Understanding the Role of Internal Diffusion Barriers in ...

catalyzed skeletal isomerization of UFA. OA was converted to bc-UFA isomers with up to 85% yield (after hydrogenation to bc-SFA) in the presence of modified Ferrierite zeolites (after Pd-catalyzed hydrogenation). The formation of dimer and trimer byproducts was greatly suppressed when Ferrierite zeolites were used as catalysts.

a Zeolite-catalyzed isomerization of oleic acid to a ...

Pure-silica zeolite beta containing Lewis acidic framework Ti 4+ centers (Ti-Beta) is shown to catalyze the isomerization of d -glucose to l -sorbose via an intramolecular C5-C1 hydride shift.

Titanium-Beta Zeolites Catalyze the Stereospecific ...

It is therefore plausible that Sn in zeolite Beta performs the isomerization reaction

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following an intramolecular hydride shift mechanism between the carbonyl-containing C-1 and the hydroxyl-bearing C-2 of glucose by way of a 5-member complex (Scheme 2 B).

Tin-containing zeolites are highly active catalysts for ...

The isomerization reaction of 1,2-dihydrophenanthrene catalyzed by a mordenite zeolite is explored theoretically in the present study. It was found that the electrostatic adducts which resemble ion-pair and π complexes, detected for zeolite catalysts, could enable the reaction to proceed through an energy favorable channel and explain its selectivity.

Exploring the acid catalyzed isomerization of phenanthrene ...

The most active catalyst was zeolite Y, which was found to be more active than the zeolites beta, ZSM-5, and mordenite. The novel reaction pathway involves glucose isomerization to fructose and

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subsequent reaction with methanol to form methyl fructoside (step 1), followed by hydrolysis to re-form fructose after water addition (step 2).

Efficient Isomerization of Glucose to Fructose over ...

Simplified illustration of the alcohol homologation reaction sequence during zeolite-catalyzed MTH (in green) and ETH (in blue). Homologation is a reaction that increases the carbon skeleton of the reactant molecule to form the next higher analogues in multiples of n , where n is the number of carbon atom(s) in the reactant molecule (C_n ; that is, $n=1$ in MTH, $n=2$ in ETH).

Unraveling the Homologation Reaction Sequence of the ...

Scheme 1. Zeolite-catalyzed isomerization of 2-pentene by the methyl shift (MS), ethyl shift (ES), and dimethylcyclopropane (DMCP) mechanisms. 3.1. Adsorption and protonation of trans -2-pentene in BEA

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zeolite. Adsorption of trans -2-pentene is the first step in the skeletal isomerization mechanism.

Shape selectivity in acidic zeolite catalyzed 2-pentene ...

Among them, Ferrierite (FER) zeolite is one of the industrialized types, which has excellent catalytic properties in skeletal isomerization of n-alkene, methanol to olefin, N_2O decomposition, CO_2 hydrogenation, dehydration of methanol or ethanol, dimethyl ether carbonylation, and so on [6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16].

Advances in the Synthesis of Ferrierite Zeolite

The mechanism of the isomerization of 1-butene on HZSM-48 The isomerization mechanism on HZSM-48 is similar to that on HZSM-23. The adsorbed 1-butene (REAC) is first protonated by the acid proton of the zeolite. The 2-butoxide is formed via the transition of a secondary carbenium.

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Density functional theory studies on the skeletal ...

We have shown that the isomerization of glucose to fructose can be catalyzed in aqueous media by hydrophobic zeolites that contain Lewis acids (1-3). Specifically, pure-silica zeolites with the zeolite beta structure containing small amounts of framework Ti 4+ or Sn 4+ (denoted as Ti-Beta and Sn-Beta, respectively) were able to isomerize glucose to fructose in high yield at relatively low ...

Metalloenzyme-like catalyzed isomerizations of sugars by ...

Isomerization of glucose to fructose can proceed along several different reaction pathwa... Combined Function of Brønsted and Lewis Acidity in the Zeolite-Catalyzed Isomerization of Glucose to Fructose in Alcohols - Saravanamurugan - 2016 - ChemCatChem - Wiley Online Library

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Combined Function of Brønsted and Lewis Acidity in the ...

Tin-containing zeolites are highly active catalysts for the isomerization of glucose in water Tin-containing zeolites are highly active catalysts for the isomerization of glucose in water Manuel Moliner, Yuriy Román-Leshkov, and Mark E. Davis 1

Tin-containing zeolites are highly active catalysts for ...

The isomerization of 1,5- into 2,6-DMN over the acidic beta zeolite is investigated at the molecular level by using the 120T M06-L/6-31G(d,p)//120T ONIOM(M06-L/6-31G(d,p):UFF) method. This reaction involves two consecutive methyl shift processes through the conversion of 1,5- into 1,6-DMN and of 1,6- into 2,6- DMN, respectively.

A Mechanistic Investigation on 1,5- to 2,6 ...

Yields of major products as a function of reaction time for the reactions of

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cellulosic sugars catalyzed by the Sn-Beta. (a) Isomerization of glucose in aqueous phase. ... zeolites. Aqueous-phase ...

(PDF) Rapid synthesis of Sn-Beta for the isomerization of ...

We have shown that the isomerization of glucose to fructose can be catalyzed in aqueous media by hydrophobic zeolites that contain Lewis acids (1-3).

Specifically, pure-silica zeolites with the zeolite beta structure containing small amounts of framework Ti 4þor Sn (denoted as Ti-Beta and Sn-Beta, respectively) were

Metalloenzyme-like catalyzed isomerizations of sugars by ...

17.1. Background. A key process in the petrochemical refining industry is the isomerization of hydrocarbons, usually carried out using bi-functional catalysts. These catalysts consist of noble metal particles dispersed over an acidic zeolite: the metal and zeolite accelerate

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dehydrogenation-hydrogenation and isomerization reactions ...

17. Catalytic Isomerization of pent-2-ene in H-ZSM-22 — MD ...

The cycloisomerization of 1,5-enynes catalyzed by cationic triphenylphosphinegold(I) complexes produces bicyclo[3.1.0]hexenes. Substitution at all positions of the 1,5-enyne is tolerated, leading to a wide range of bicyclo[3.1.0]hexane structures, including those containing quaternary carbons. Substrates containing a 1,2-disubstituted olefin undergo stereospecific cycloisomerization (cis ...

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