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The highest aromatic yield from sawdust of 14% carbon in the fluidized bed reactor was obtained at low biomass weight hourly space velocities (less than 0.5 h⁻¹) and high temperature (600 °C). Olefins (primarily ethylene and propylene) were also produced with a carbon yield of 5.4% carbon. The biomass weight hourly space velocity and the reactor temperature can be used to control both aromatic yield and

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Production of green aromatics and olefins by catalytic ...

The main commercially technique for light olefins production is steam cracking of naphtha. Though some improvements have been made in this process, it is still the first energy-consuming process in petrochemical industry, which requires high reaction temperature (800-880~ and accounts for 40 % of the total energy-consuming every year.

Production of light olefins and aromatic hydrocarbons ...

Olefins and aromatic compounds are among the main products obtained by catalytic cracking of biomass pyrolysis vapors/bio-oil. These two hydrocarbon groups are the building blocks of petrochemical industry.

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Production of these olefins leads to production of the largest amounts of toluene and p-xylene among all the plastics that can participate in the formation of aromatics via HZSM-5 catalysis , , , . The carbon monoxide and carbon dioxide yields are composed of mostly carbon from cellulose, with the total carbon yield of oxide gases being less than 20%, showing a slight decrease compared to PS ...

Origin of carbon in aromatic and olefin products derived ...

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4/28 Acces PDF Production Of Olefin And Aromatic Hydrocarbons By Fossil fuels are the major feedstock for the production of light olefins and aromatics in the current petrochemical industry (Akay et al, 2013, Huber et al, 2006, Vispute et al, 2010)

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In this paper we study the co-feeding of olefins (ethylene and propylene) with a series of furanic compounds (furan, 2-methylfuran, furfural, and furfuryl alcohol) over ZSM-5 catalyst in a continuous flow fixed-bed reactor at a temperature range of 450–600 °C. We show the importance of Diels–Alder cycloaddition reactions when olefins are co-fed with furanics over ZSM-5.

Production of targeted aromatics by using

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Diels–Alder ...

Zeolite catalyzed methanol-to-olefins (MTO) conversion proceeds through a hydrocarbon pool mechanism involving a series of elementary steps. The nature of the active hydrocarbon pool species is yet to be made clear in different zeolites. In this work, both aromatic-based and olefin-based cycles in H-SAPO-34

Similarities and differences between aromatic-based and ...

Olefins are hydrocarbon chains with a double-bond between two of the carbon atoms. Olefins are produced in a refinery in processes where thermal cracking takes place in the absence of hydrogen. (FCC and Delayed Coking) The light olefins propylene ...

What are olefin and aromatic in the context of oil ...

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Hydrocarbons By Since these condensates have a paraffin-naphthene base, it is possible to use them as pyrolysis feedstock for the production of olefins and aromatic condensates [1, 2]. The olefin hydrocarbons serve as feedstock for the production of polymers, and the aromatic hydrocarbons as feedstock for pyrolysis – high-octane additives to premium-grade commercial gasolines At the present time, low-octane gasoline cuts are subjected to pyrolysis, as a result of which the volume of the 85-180°C cut ...

Production of olefin and aromatic hydrocarbons by ...

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A method of producing olefins and aromatic compounds from a feedstock, the method comprising: contacting a plastic feedstock and a catalyst composition at a temperature of 550° C. or higher, the catalyst composition comprising a fluidized catalytic cracking (FCC) catalyst and a ZSM-5 zeolite catalyst, wherein the amount of ZSM-5 zeolite catalyst makes from 10 wt. % to 50 wt. % of the total weight of the FCC catalyst and the ZSM-5 zeolite catalyst, the FCC catalyst being a non-fresh FCC ...

Conversion of plastics to olefin and aromatic products ...

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A process for treating a hydrocarbon process stream by converting trace quantities of olefinic impurities to

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nonolefinic hydrocarbons, which process
comprises contacting the process stream,
which contains trace olefins in an amount
of from about 50 to about 2000 as
measured by Bromine Index and at least
80% by weight of aromatic and naphthenic
hydrocarbons having from 6 to 20 carbon
atoms per ...

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