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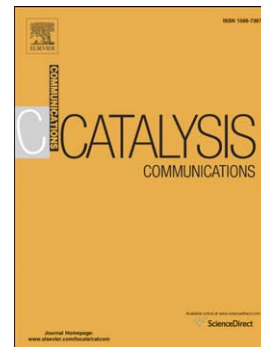
One-step catalytic conversion of ethanol into 1,3-butadiene using zinc-containing talc

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Short Communications

One-step catalytic conversion of ethanol into 1,3-butadiene using  
zinc-containing talc

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Abstract

Compared with previously reported catalysts, zinc-containing talc exhibited the highest formation rate of 1,3-butadiene in one-step conversion of ethanol at 673 K. Our results showed that talc containing just 1.4 wt% of ZnO produced 1,3-butadiene at a rate of  $1.9 \times 10^{-2} \text{ mol g}^{-1} \text{ h}^{-1}$ .

*Keywords:*

Ethanol

1,3-Butadiene

Zinc-containing talc

High production rate

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