

Supporting Information

Bioethanol Guerbet condensation reaction: Construction of a highly active and stable catalytic system

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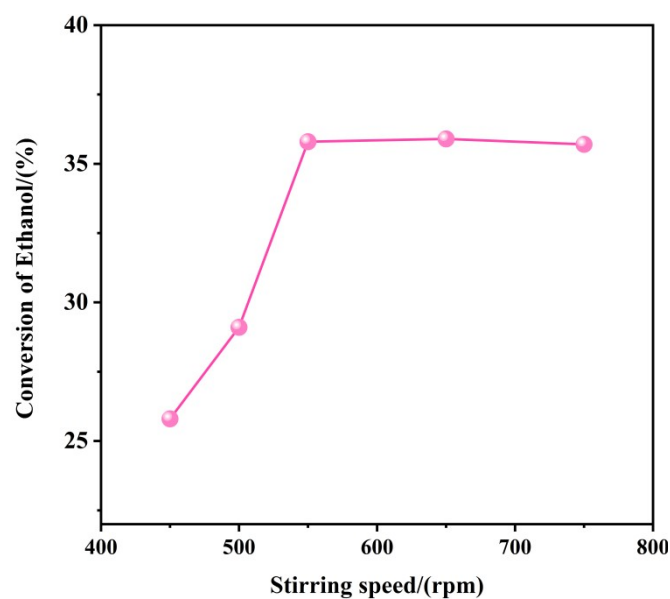


Figure S1 Effect of stirring speed on ethanol conversion over 10%Ni/HAP.

Reaction conditions: a weight percentage of catalyst=10 wt.%, t=6 h, T=230 °C.

Table S1 Catalytic performance of 10%Ni/HAP prepared at different pH values

pH value	Ethanol conversion /%	<i>n</i> -Butanol yield /%	Selectivity /%		
			<i>n</i> -Butanol	2-Ethyl butanol	1-Hexanol
9	47.3	13.4	28.3	4.6	3.3
10	42.0	14.0	33.3	4.5	6.9
11	35.9	14.4	40.2	7.7	9.9

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