

Supplementary information

Strontium pyrophosphate modified by phosphoric acid for dehydration of lactic acid to acrylic acid

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The stability of strontium pyrophosphate modified using phosphoric acid (0.1 wt%) was investigated and the results were given in Fig. S1. It is clearly seen that the catalyst retains an excellent stability during the initial reaction time of 4 hours. However, the selectivity of acrylic acid decreases drastically when the reaction time is above 4 hours. Compared with acrylic acid selectivity, the conversion of lactic acid decreases slightly.

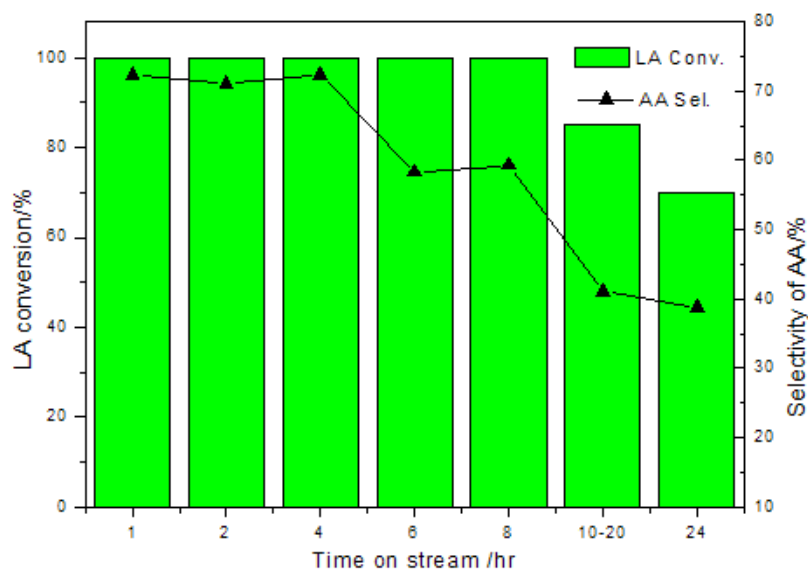


Fig. S1 the stability of the modified strontium pyrophosphate catalyst with time on stream