Electronic Supplementary Material (ESI) for Catalysis Science & Technology.
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Upgrading of furfural to biofuel precursors via aldol condensation with acetone over magnesium hydroxide fluorides $MgF_{2-x}(OH)_x$

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Supporting Information

Fig. S1: Nitrogen adsorption–desorption isotherms of magnesium hydroxide fluorides

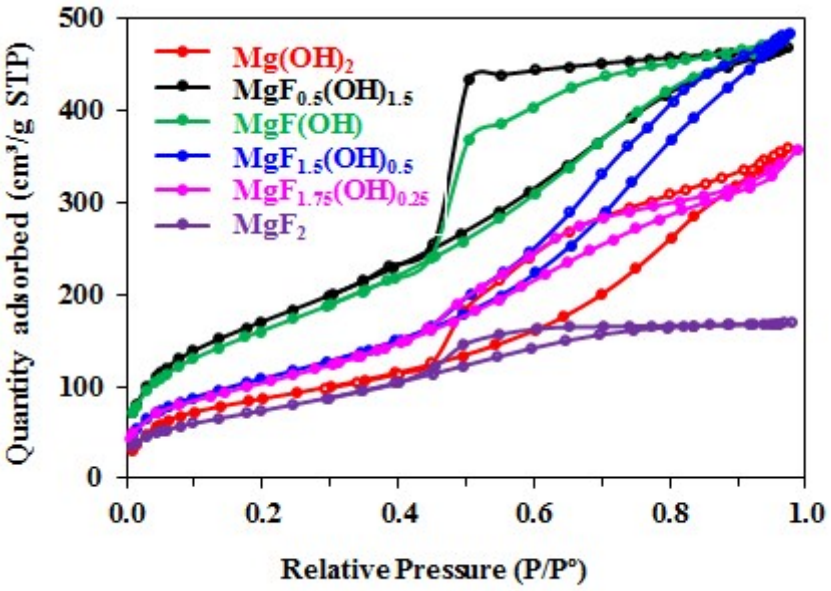

Fig. S2

Aldol condensation of furfural and acetone over $MgF_{1.5}(OH)_{0.5}$ at 50 °C under atmospheric pressure (furfural/acetone ratio equal to 0.5). Effect on the reaction time on the conversion of furfural (ᔓ) and the yield in FAc-OH (■), FAc (◆) and F_2Ac (□).

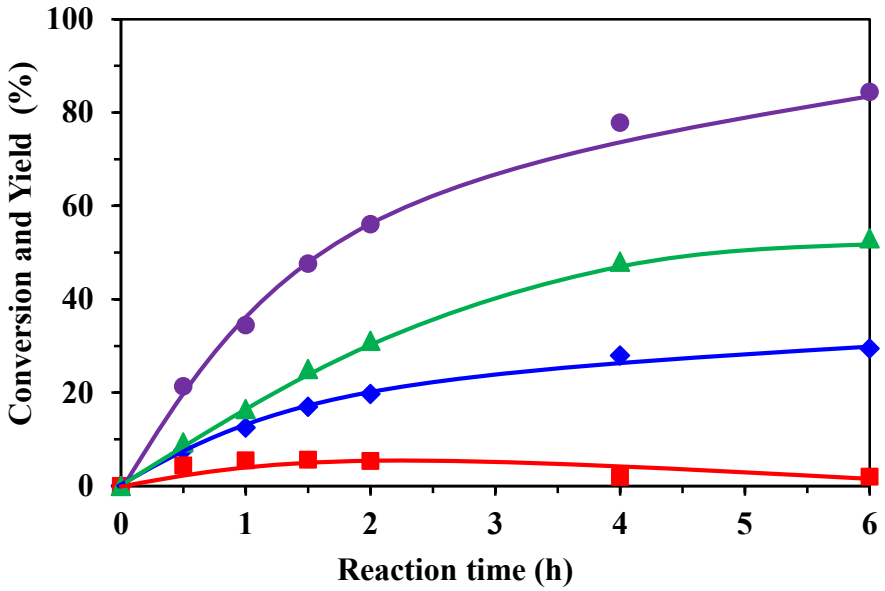

Fig. S3

Aldol condensation of furfural and acetone over $MgF_{1.5}(OH)_{0.5}$ at 50 °C under atmospheric pressure. Effect of the reaction time on the furfural consumption at several furfural/acetone (Furf/Ac) ratio. (◆) Furf/Ac = 0.5; (■) Furf/Ac = 1 and (□) Furf/Ac = 2.