Supplementary Information

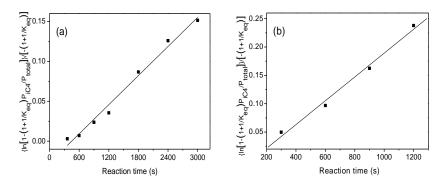


Figure S1 The plots of rate constants for 1^{-13} C-n-butane isomerization reaction obtained from eq. (2) over CsPW (a) and $Al_{0.1}$ CsPW (b).

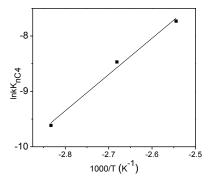


Figure S2 Arrhenius plot for 1-13C-n-butane isomerization over Al_{0.1}CsPW.

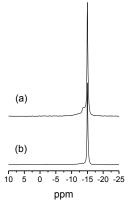


Figure S3 ¹H-decoupling ³¹P MAS NMR spectra of (a) Al_{0.1}CsPW and (b) CsPW after the adsorption of 2-¹³C-acetone.