Electronic Supplementary Material (ESI) for New Journal of Chemistry. This journal is © The Royal Society of Chemistry and the Centre National de la Recherche Scientifique 2016

## Supplementary Information for New Journal of Chemistry Highly efficient synthesis of LTA-type aluminophosphate molecular sieve

## by improved ionothermal method

Xinhong Zhao<sup>1</sup>, Jiangbo Zhao<sup>1</sup>, Chang-Yang Chiang<sup>2</sup>, Zhengshan Li<sup>1</sup>, Yu Zhao<sup>1</sup>, Wuzong Zhou<sup>2</sup>

<sup>1</sup>School of Petrochemical Engineering, Lanzhou University of Technology, Lanzhou 730050, China <sup>2</sup>EaStChem, School of Chemistry, University of St Andrews, St Andrews, KY16 9ST, United Kingdom

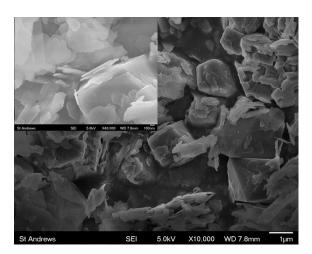


Fig. S1 SEM images of the as-synthesized sample Morp-0

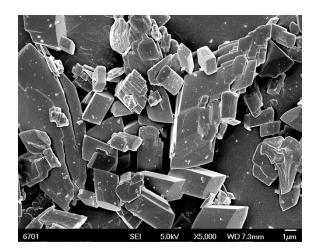


Fig. S2 SEM image of the as-synthesized sample ILs-2

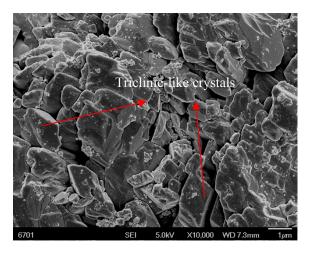


Fig. S3 SEM image of the as-synthesized sample ILs-0

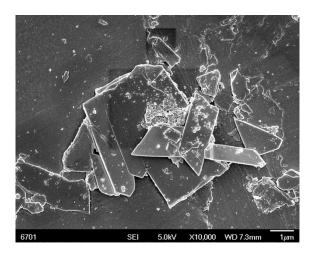


Fig. S4 SEM image of the as-synthesized sample ILs-1

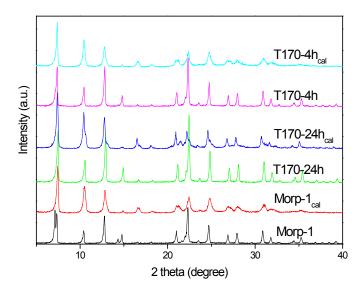


Fig. S5 XRD patterns of three calcined samples (T170- $4h_{cal}$ , T170- $24h_{cal}$  and Morp- $1_{cal}$ ) together with the corresponding as-synthesized samples as references.