## **Supplementary Information**

## One-pot Synthesis of Novel Hierarchical Bifunctional Ga/HZSM-5 Nanosheets for Propane Aromatization

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**Fig. S1.** Particle size distribution of (a) HZSM-5-CON, (b) Ga-HZSM-5-CON (c) HZSM-5-NS and (d) Ga-HZSM-5-NS.



**Fig. S2.** Distribution of nanolayer thickness of (a) HZSM-5-NS and (b) Ga-HZSM-5-NS.



Fig. S3. A) N<sub>2</sub> adsorption/desorption isotherms and B) BJH pore size distribution derived from the adsorption branch of isotherm of (a) HZSM-5-CON, (b) Ga-HZSM-5-CON (c) HZSM-5-NS and (d) Ga-HZSM-5-NS.



**Fig. S4.** <sup>27</sup>Al MAS NMR spectra of (a) HZSM-5-CON, (b) Ga-HZSM-5-CON (c) HZSM-5-NS and (d) Ga-HZSM-5-NS



Fig. S5. TGA curves of (a) HZSM-5-CON, (b) Ga-HZSM-5-CON (c) HZSM-5-NS and (d) Ga-HZSM-5-NS after the reaction study of propane conversion at 823 K, GHSV of 300 h<sup>-1</sup> for 24 h. The amount of deposited coke of HZSM-5-CON, Ga-HZSM-5-CON, HZSM-5-NS and Ga-HZSM-5-NS is 18.53, 17.61, 17.16 and 5.35 %, respectively.