

SUPPLEMENTARY MATERIAL

A Simple Route to Prepare Zeolite Y Nanosheets with Hierarchical Perfoliate

Pores

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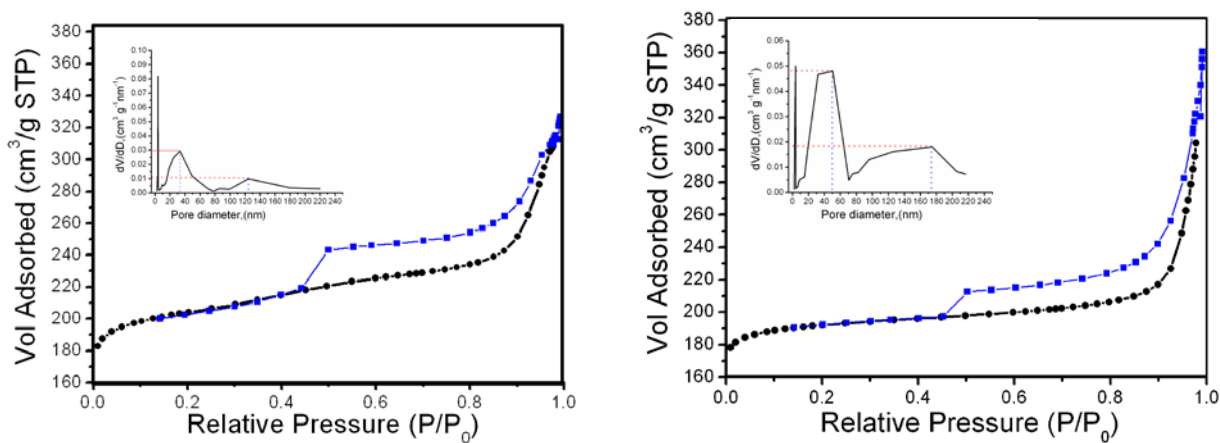
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Figure S1. N₂ adsorption-desorption isotherms and BJH pore size distribution curves (insets) of ZY-C ((Left) and ZY-N (Right).

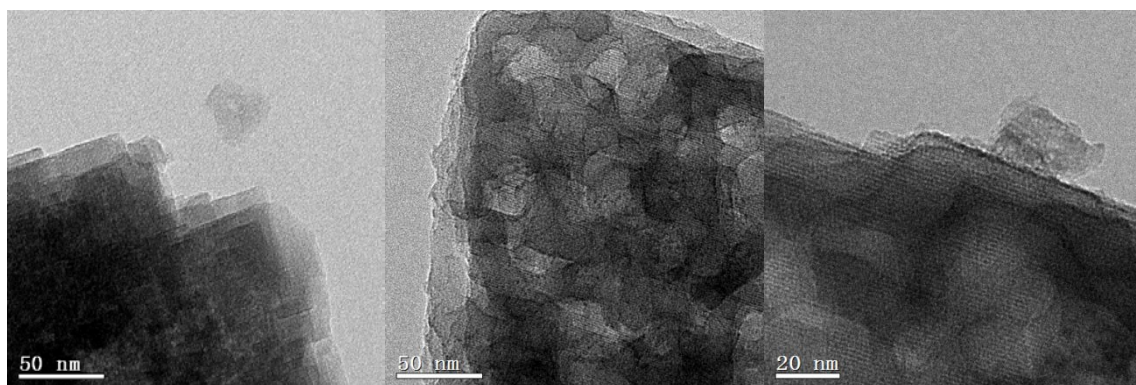


Figure S2. TEM images of zeolite Y nanosheets abounded with hierarchical perfoliate pores

Table S1

Textual properties of the samples ZY-C and ZY-N

Samples	The framework Si/Al ratio	BET surface area (m^2g^{-1})	Micropore surface area (m^2g^{-1}) ^a	Macro/meso pore surface area (m^2g^{-1})	Total pore volume (cm^3g^{-1}) ^a	Micropore volume (cm^3g^{-1})	Macro/meso pore volume (cm^3g^{-1})	BJH pore diameter (D)(nm) ^b
ZY-C	6.7	677	593	84	0.49	0.27	0.22	2.9, 32
ZY-N	2.2	667	593	74	0.56	0.26	0.30	3.3, 50

*a: calculated according to the “t-plot” method; b: obtained from the BJH pore size distribution curves.