

Supplementary Information

Figure S1. The nitrogen adsorption and desorption isotherms of nanosized zeolite (NZ040) measured at 77 K.

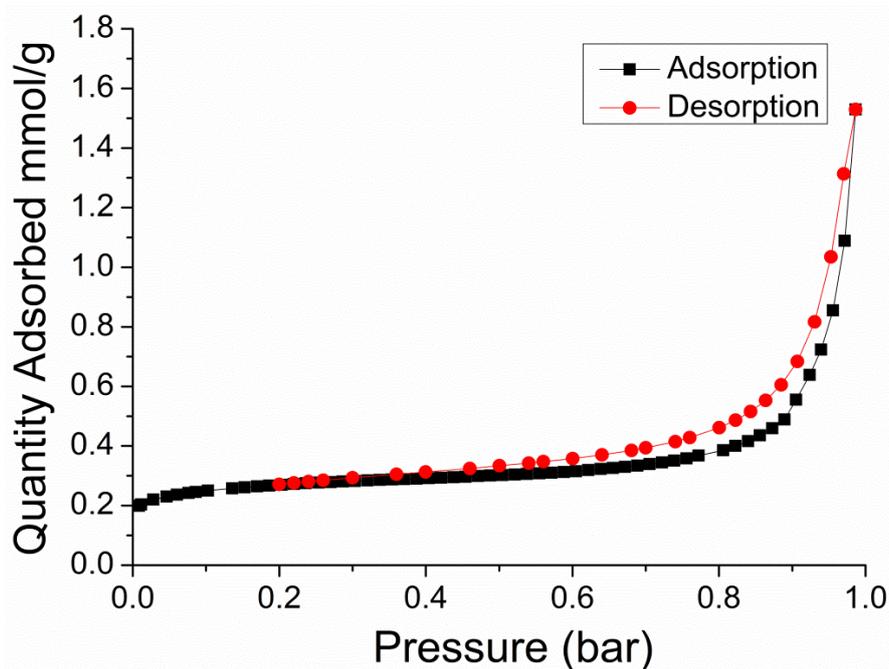


Figure S2. X-ray diffraction (XRD) patterns of nanometer-sized zeolite NaA samples synthesized with different amounts of methylcellulose (MC) added: (a) NZ040; (b) NZ060; (c) NZ080; (d) NZ100; (e) N020; (f) NZ010; (j) Z0.

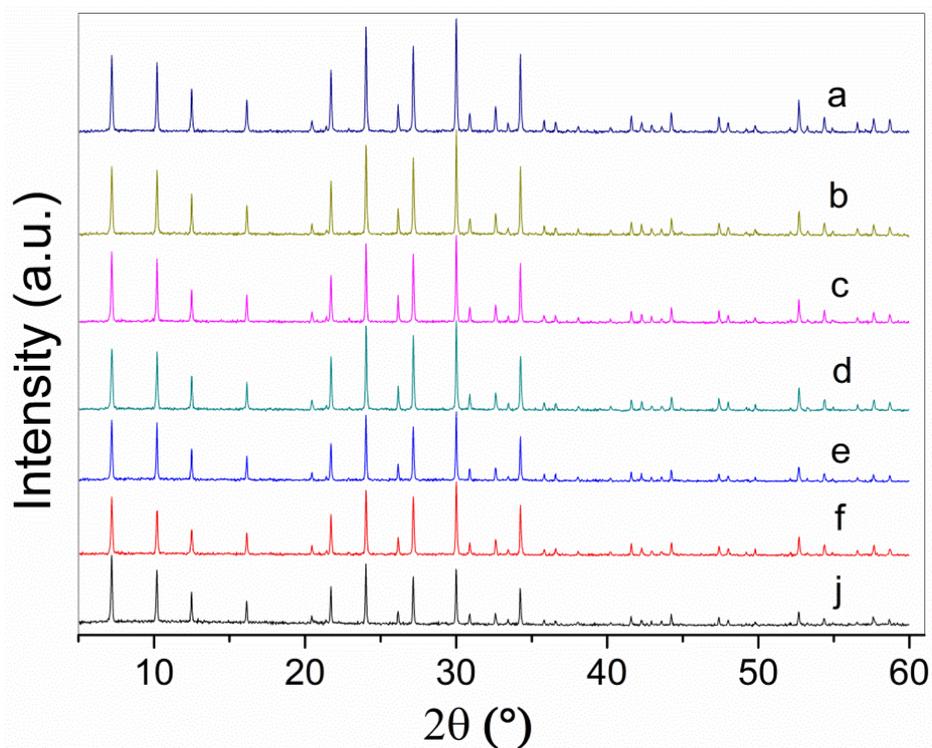


Figure S3. Comparison of the XRD patterns of synthesized zeolites A crystals with the addition of MC; (a) NZ040, and without any added MC; (b) Z0, compared with a commercial powder; (c) zeolite A.

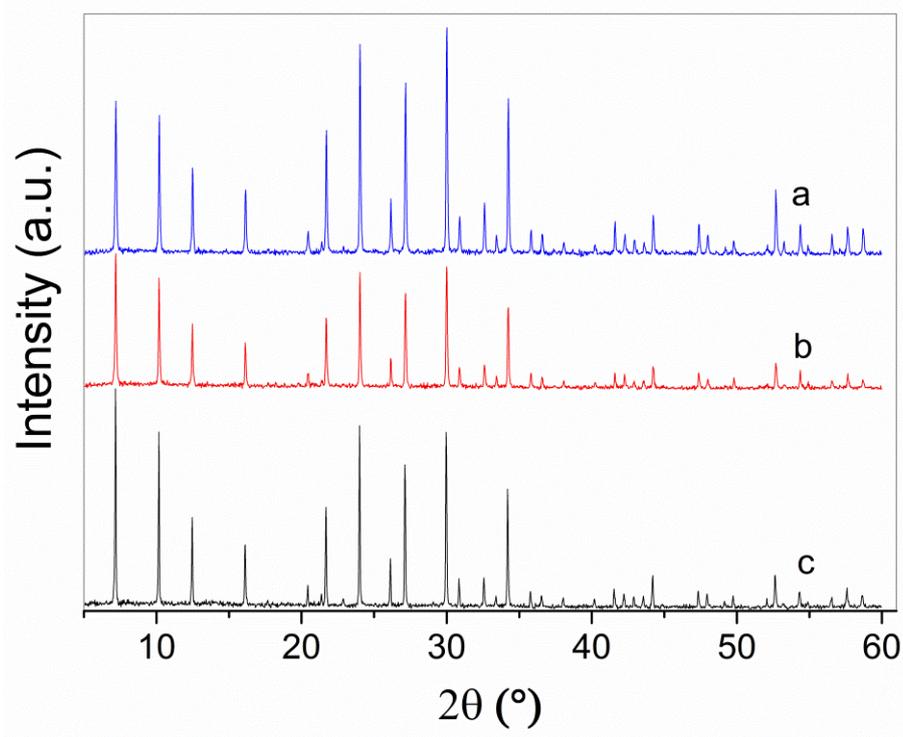


Figure S4. Elemental composition of nano- and micron-sized zeolites as obtained by energy dispersive X-ray spectroscopy (EDXS).

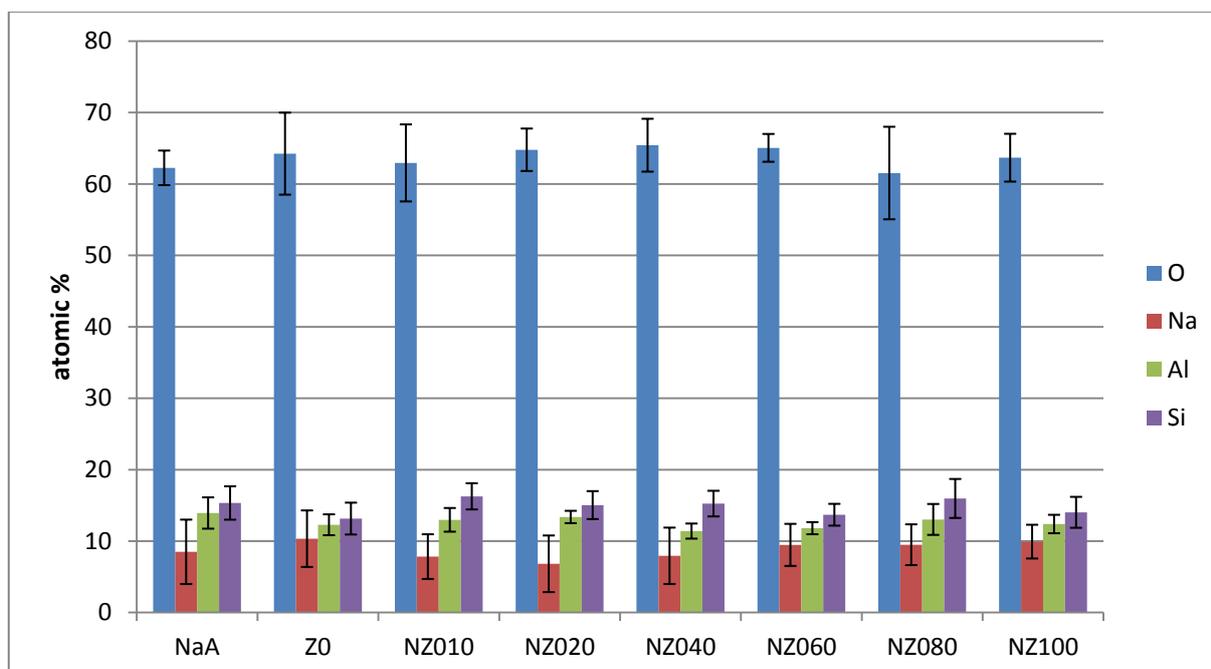


Figure S5. A logarithmic representation of remaining CO₂ adsorption capacity *versus* time of synthesized zeolite A nanocrystals.

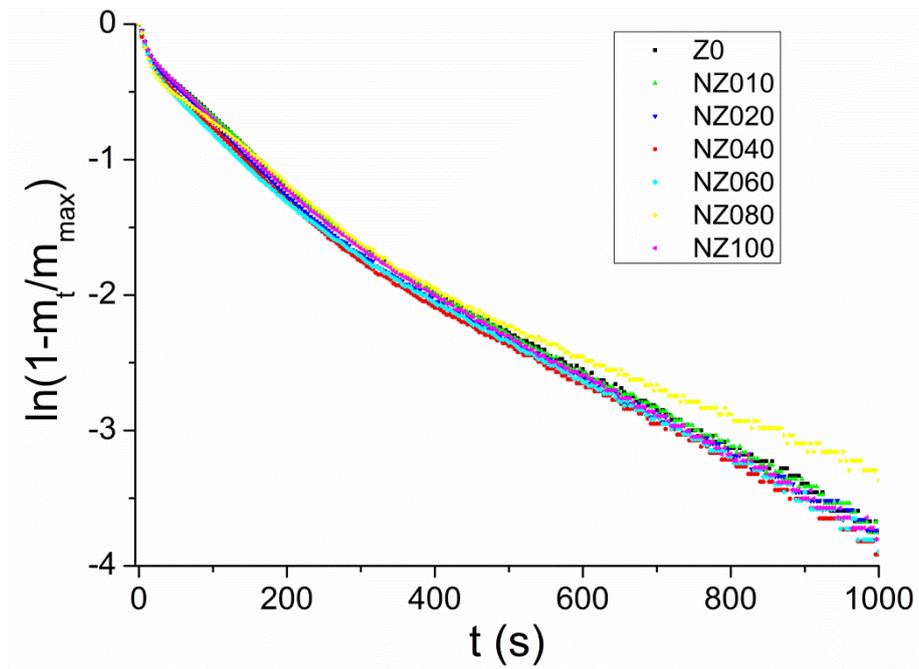


Figure S6. CO₂ adsorption capacity *versus* time of synthesized zeolite A nanocrystals.

