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Supplementary information

Incorporation of trivalent cations in NaX zeolite nanocrystals for the adsorption of O_2 in the presence of CO_2

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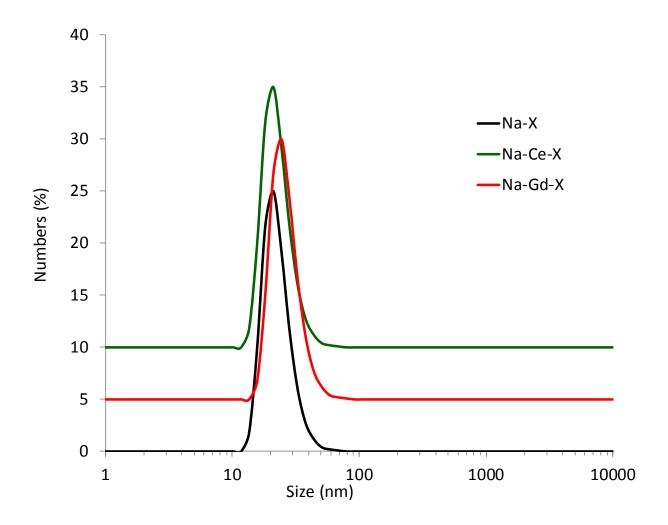


Figure S1. Particle size distribution of as-synthesized Na-X, cerium and gadolinium ion exchanged zeolites (Na-Ce-X and Na-Gd-X) measured by Dynamic Light Scattering (DLS).

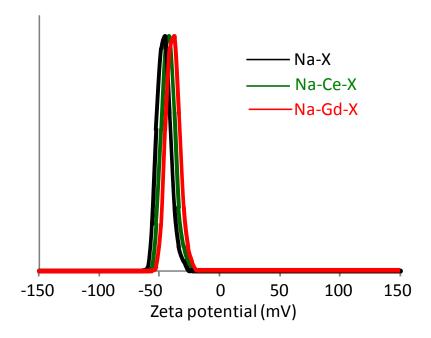


Figure S2. Zeta potential curves of as-synthesized Na-X, cerium and gadolinium ion exchanged zeolites (Na-Ce-X and Na-Gd-X).

Table S1. External surface area, diameter of micropores and mesopores of the as-synthesized Na-X, and the ion-exchanged Na-Ce-X, and Na-Gd-X zeolite samples.

Sample	S _{ext} (m ² .g ⁻¹)	d _{mic} ^a (nm)	d _{meso} ^b (nm)
Na-X	225	0.70	14.3
Na-Ce-X	217	0.74	16.1
Na-Gd-X	214	0.74	15.1

^aDiameter of micropore determined by means of NLDFT method. ^bDiameter of mesopore determined by means of BJH method