SUPPLEMENTARY MATERIAL TO

Molecular sieve-supported ionic liquids as efficient adsorbents for CO₂ capture

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Fig. S-1. CO₂ absorption behaviors of supported ionic liquids: a) [OHe-mim][BF₄] and b) [HOEAme], ionic liquid loading: 20 %, T: 20 °C; c₀: initial concentration of CO₂ before the adsorbent (mol/mol) and c: the concentration of CO₂ after the adsorbent (mol/mol).

Fig. S-2. CO₂ absorption behavior of NaY.
**Fig. S-3.** Effect of temperature on CO$_2$ adsorption by [NH$_3$e-mim][BF$_4$]/NaY.

**Fig. S-4.** Effect of the ILs loading on CO$_2$ adsorption by [NH$_3$e-mim][BF$_4$]/NaY.