

# **Electronic supplementary information**

## Enhancing the adsorption of ionic liquids onto activated carbon by the addition of inorganic salts

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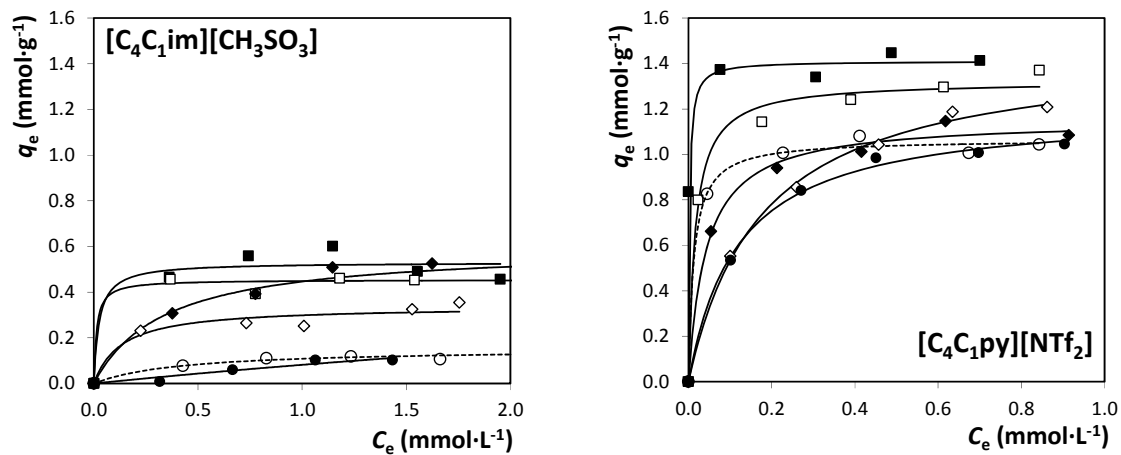
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**Fig. S1** Experimental data (dots) and Langmuir fits (curves) for the adsorption equilibrium of  $[C_4C_1im][CH_3SO_3]$  and  $[C_4C_1py][NTf_2]$  onto AC-MkU at 308 K, varying the salt concentration in water ( $\circ$ ), No salt; ( $\bullet$ ),  $[Na_2SO_4] = 0.282 \text{ mol}\cdot\text{kg}^{-1}$ ; ( $\diamond$ ),  $[Na_2SO_4] = 0.704 \text{ mol}\cdot\text{kg}^{-1}$ ; ( $\blacklozenge$ ),  $[Na_2SO_4] = 1.06 \text{ mol}\cdot\text{kg}^{-1}$ ; ( $\square$ ),  $[Na_2SO_4] = 1.41 \text{ mol}\cdot\text{kg}^{-1}$ ; ( $\blacksquare$ ),  $[Na_2SO_4] = 1.76 \text{ mol}\cdot\text{kg}^{-1}$ ).