

Supporting information

Efficient CO₂ capture by deep eutectic solvents through reducing the reaction between carbenes and CO₂

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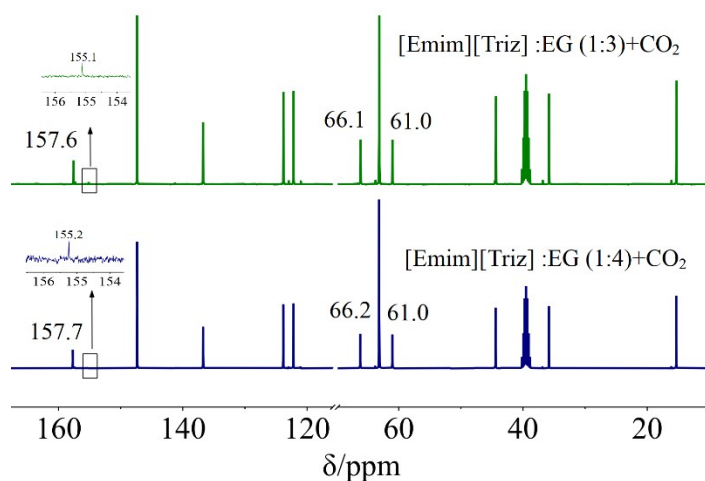


Fig. S1 ^{13}C NMR spectra of [Emim][Triz]:EG (1:3) and (1:4) after CO_2 uptake.

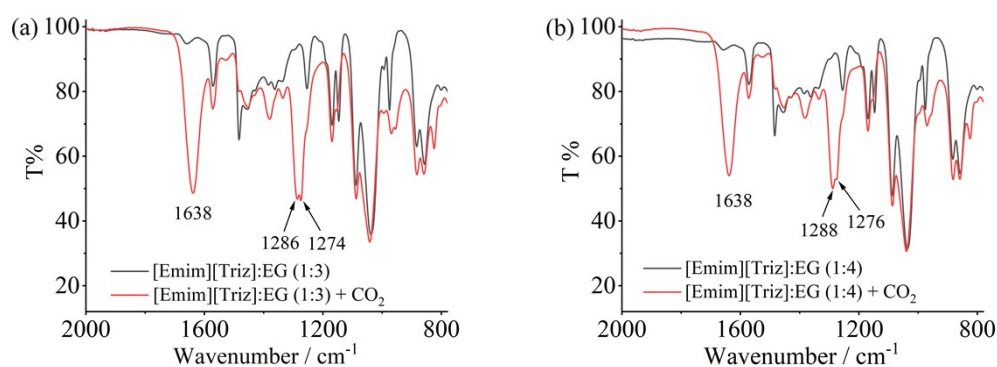


Fig. S2 FTIR spectra of [Emim][Triz]:EG (1:3) (a) and (1:4) (b) with and without CO_2 .

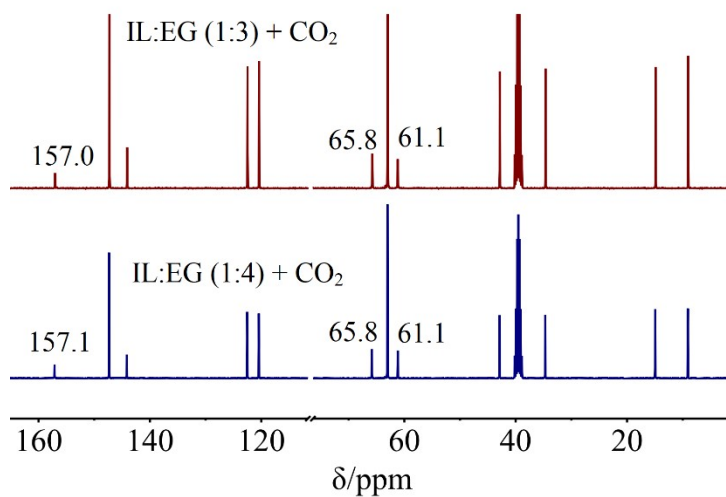


Fig. S3 ^{13}C NMR spectra of [Emmim][Triz]:EG (1:3) and (1:4) after CO_2 uptake.

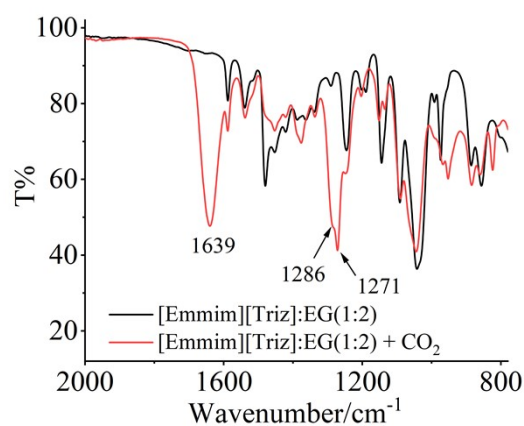


Fig. S4 FTIR spectra of [Emmim][Triz]:EG (1:2) with and without CO₂.

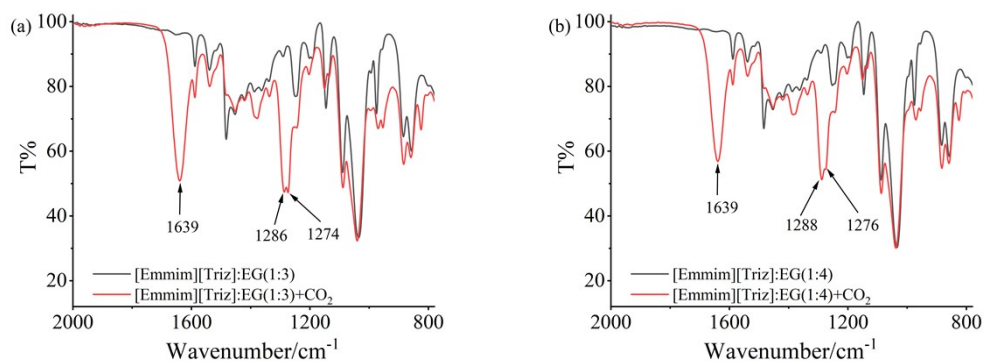


Fig. S5 FTIR spectra of [Emmim][Triz]:EG (1:3) (a) and (1:4) (b) with and without CO₂.

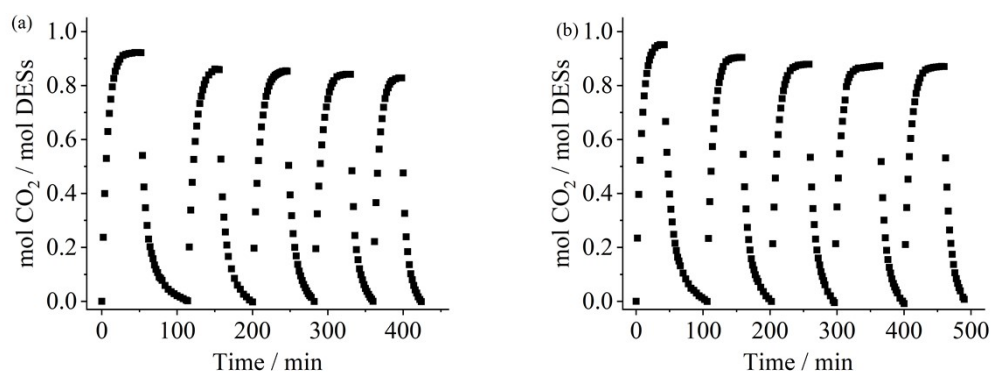


Fig. S6 The absorption-desorption cycles by [Emim][Triz]:EG (1:2) (a) (capture: 25 °C; release: 70 °C) and [Emmim][Triz]:EG (1:2) (b) (capture: 25 °C; release: 60 °C).