Plant derived porous graphene nanosheets with efficient CO$_2$ capture

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SUPPORTING INFORMATION

(Figures S1-S5)
Figure S1. 3-D representation of a $1 \mu m \times 1 \mu m$ AFM scan of (a) EFBG-800 and (b) EFBG-1000 material overlaid on the Si surface.
Figure S2. XPS survey spectra of (a) EFBG-800 and (b) EFBG-1000.
Figure S3. (a) N₂ adsorption-desorption isotherms of EFBG-800 at 77 K. (b) Pore size distribution (PSD) of EFBG-800. (c) N₂ adsorption-desorption isotherms of EFBG-1000 at 77 K. (d) Pore size distribution (PSD) of EFBG-1000.
Figure S4. Variation of the isosteric heat of adsorption with the amount of CO₂ adsorbed.
Figure S5. CO$_2$ adsorption cycles for EFBG-800 and EFBG-1000 at 25 °C.