Chemically reversible CO\textsubscript{2} uptake by dendrimer-impregnated metal-organic frameworks

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Supplementary information

Figure S1. Solid-state \textsuperscript{13}C CP MAS NMR of (A) NU-1000 and (B) NU-1000+G2. The aromatic and alkane regions of the spectrum are highlighted to differentiate between NU-1000 and the dendrimer. ............................................................................................................................................... 3

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Figure S8. Difference Fourier electron density map of NU-1000+G3. The yellow electron density isosurface is set at 0.15 $\overline{e}/\text{Å}^3$. (A) View along the $c$-axis and (B) along the $a$-axis. (C) PXRD data of NU-1000 with and without the Generation 3 PAMAM dendrimer.

Figure S9. (A) $\text{N}_2$ isotherms at 77 K and (B) the corresponding pore size distributions for NU-1000, NU-1000+G2, and NU-1000+G3. BET areas are indicated on plot A.
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Figure S26. Water isotherms of NU-1000+G2 and NU-1000+G3 compared to isotherms of formate-free NU-1000 with dendrimer, NU-1000-FF+G2 and NU-1000-FF+G3. Measurements of NU-1000-FF+G2 and NU-1000-FF+G3 were collected on a 3Flex (Micromeritics).
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