

Supporting Information

Selective capture of CO₂ by poly(amido amine) dendrimer-loaded organoclays

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Table S1 Particle size of clays and organoclays.

Dendrimer/clay proportion	Laponite clay (nm)	Hydrotalcite clay (nm)	Sericite clay (nm)
0.0	42	130	631
0.1	60	165	693
0.2	87	190	738
0.3	101	224	768
0.4	124	240	776
0.5	129	246	781
0.6	131	248	
0.7	133		

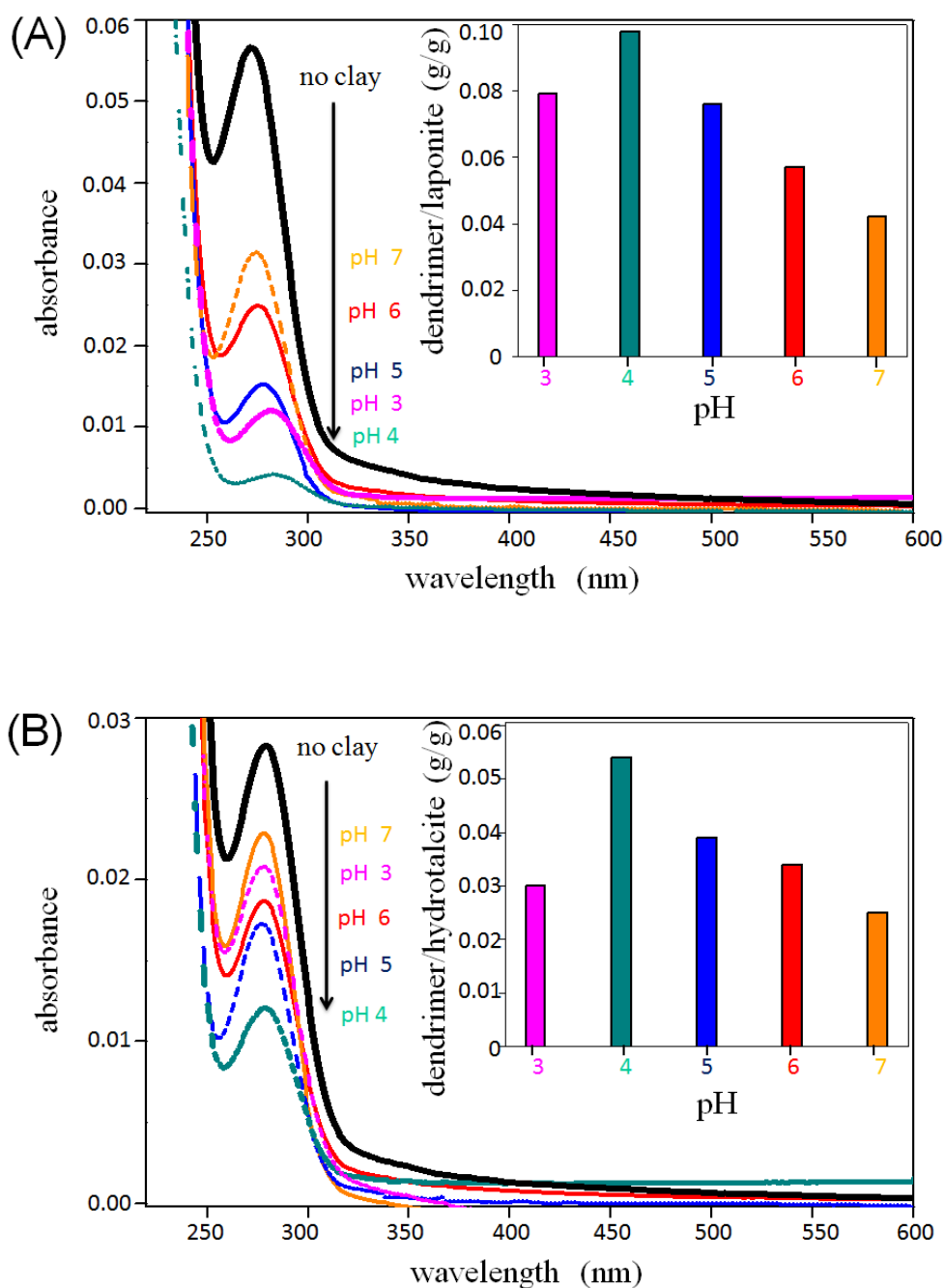


Figure S1. UV-visible absorption spectra of supernatants after the loading procedure of PAMAM dendrimer (10 mg) on clays (100 mg) at different pHs. Solid line with highest absorbance indicates an absorption spectrum of an aqueous dendrimer solution without treatment with clay. Inset is the comparison of dendrimer loading against clay at different pH. (A) laponite; (B) hydrotalcite.

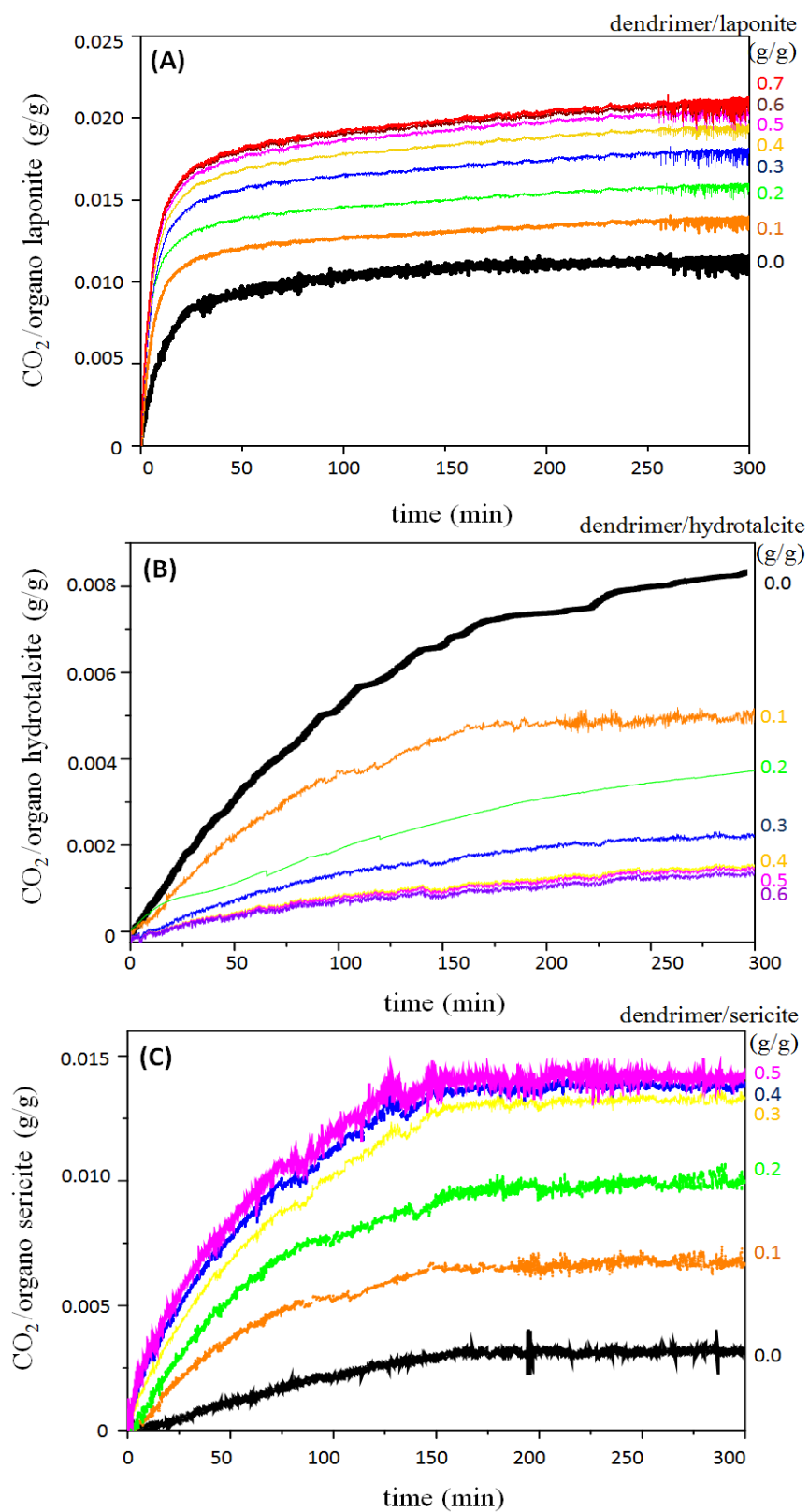


Figure S2. Time-course CO₂ adsorption on pristine and organo clays at different dendrimer/clay weight mixing ratios. (A) Laponite, (B) hydrotalcite, and (C) sericite.

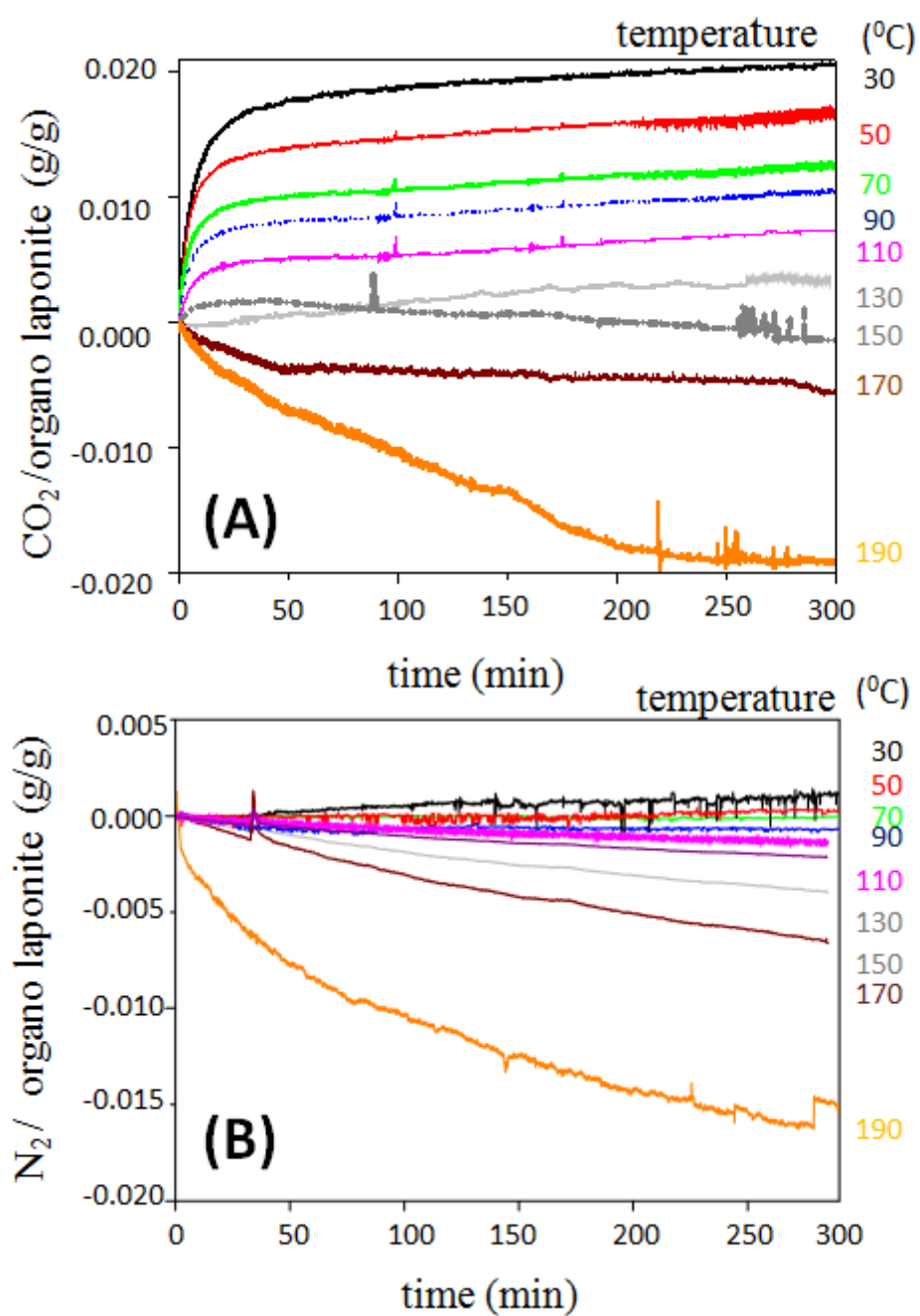


Figure S3. Time-course (A) CO₂ and (B) N₂ adsorption on organo laponite (Lap0.7) at different temperatures.