

Periodic Mesoporous Organosilicas functionalized with a wide variety of amines for CO₂ adsorption

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Supporting information:

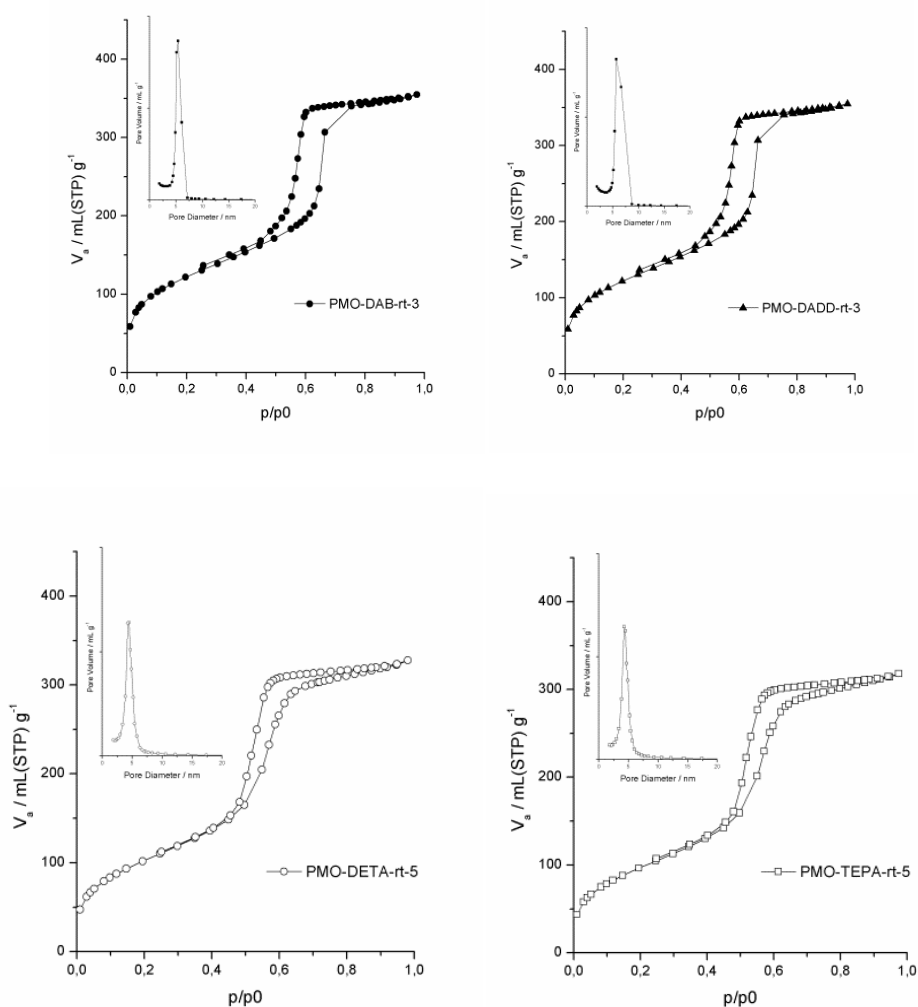


Figure S1: The N₂ sorption isotherms of PMO-DAB-rt-3, PMO-DADD-rt-3, PMO-DETA-rt-5 and PMO-TEPA-rt-5.

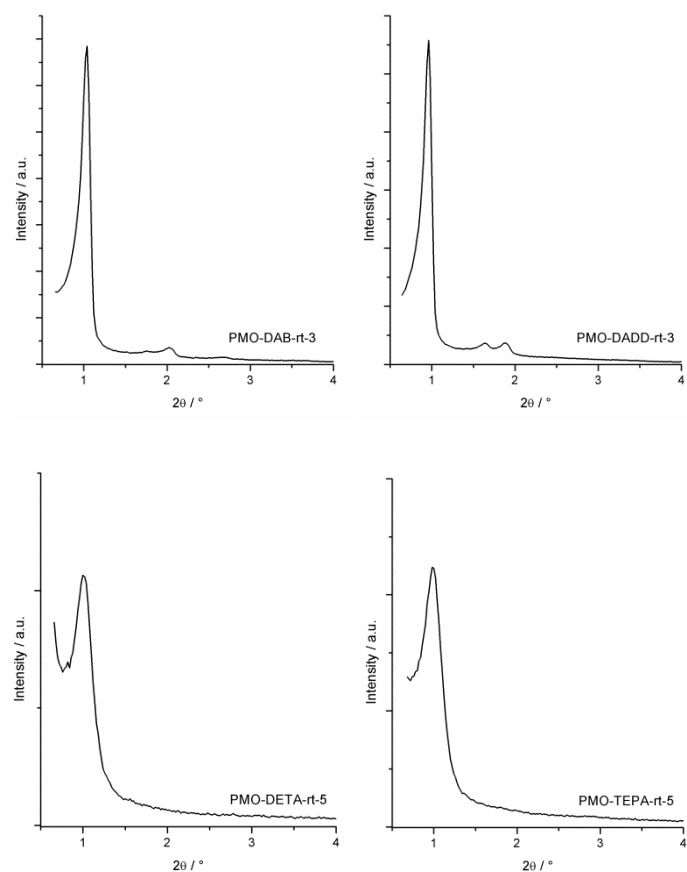


Figure S2: The X-ray Diffraction patterns of PMO-DAB-rt-3, PMO-DADD-rt-3, PMO-DETA-rt-5 and PMO-TEPA-rt-5.

Table S1: Br content, N content and substitution yield of PMO-DAB-rt-3, PMO-DAH-rt-3, PMO-DADD-rt-3, PMO-DETA-rt-5 and PMO-TEPA-rt-5.

	PMO-DAB rt-3	PMO-DAH rt-3	PMO-DADD rt-3	PMO-DETA rt-5	PMO-TEPA rt-5
Br (mmol/g) ^a	4.11	2.01	4.11	3.60	4.40
N (mmol/g) ^b	1.81	0.60	0.33	2.48	3.04
substitution yield (%)	44	30	8	69	69

^a Determined gravimetrically; ^b Determined via elemental analysis.