

SUPPORTING INFORMATION

Ion extraction applications of bilayer-structured hybrid silicas

R. Besnard,^a R. Winkler,^a G. Arrachart,^{a,*} J. Cambedouzou^a and S. Pellet-Rostaing^a

ICSM, CEA, CNRS, ENSCM, Univ Montpellier, Bagnols sur Cèze Cedex, France

Table S1: CP MAS ²⁹Si NMR data for samples M1, M1-S, M1-G and M1-D.

Figure S1: Thermogravimetric analysis of materials a) M1-G and b) M1-D.

Table S2: Elemental analysis results of M1 and M1-S.

Figure S2: SAXS profiles of materials M1-G and M1-D.

Scheme S1. Synthesis of amino-undecyl-triethoxysilane P1

Table S1: CP MAS ^{29}Si NMR data for samples M1, M1-S, M1-G and M1-D.

	%T ²	%T ³	% condensation
M1	43.9	56.1	85.4
M1-S	46.7	53.3	84.4
M1-G	40.5	59.5	86.5
M1-D	38.1	61.9	87.3

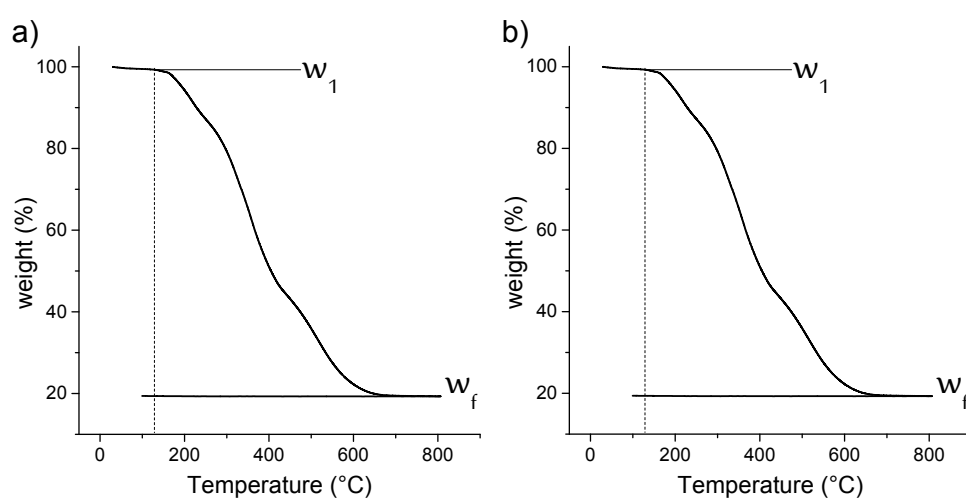


Figure S1: Thermogravimetric analysis of materials a) M1-G and b) M1-D.

Table S2: Elemental analysis results of M1 and M1-S.

	M1		M1-S	
	theo	exp	theo	exp
Si	1	1.05	1	1.1
C	11-12	12.0	15	15.7
N	1	1.00	1	1.00

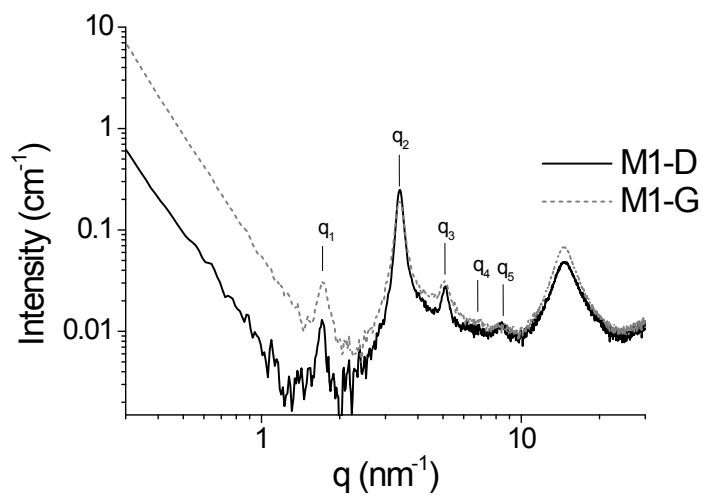
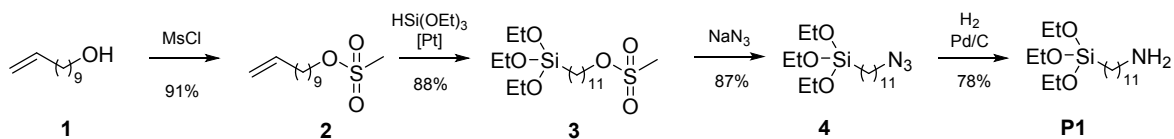


Figure S2: SAXS profiles of materials M1-G and M1-D.

($q_1 = 1.70 \text{ nm}^{-1}$; $q_2 = 3.40 \text{ nm}^{-1}$; $q_3 = 5.08 \text{ nm}^{-1}$; $q_4 = 6.75 \text{ nm}^{-1}$; $q_5 = 8.45 \text{ nm}^{-1}$)



Scheme S1. Synthesis of amino-undecyl-triethoxysilane **P1**