Supplementary Material (ESI) for Journal of Materials Chemistry
This journal is (c) The Royal Society of Chemistry 2011

Silica and hybrid silica hollow spheres from imidazolium-based templating agents

Montserrat Trilla,[1] Xavier Cattoën,[2] Christophe Blanc,[3] Michel Wong Chi Man[2,*] and Roser Pleixats[1,*]

[1]*Chemistry Department, Universitat Autònoma de Barcelona, Cerdanyola del Vallès, 08193 Barcelona, Spain Fax: (+34)-93-581-1265, e-mail: roser.pleixats@uab.es*
[2]*Institut Charles Gerhardt Montpellier (UMR5253, CNRS-UM2-ENSCM-UM1) 34296 Montpellier, France. Fax: (+33)-46714-4353, email: michel.wong-chi-man@enscm.fr*
[3]*Laboratoire des Colloïdes, Verres et Nanomatériaux, CNRS, UMR 5587, Université de Montpellier II, 34095 Montpellier, Cédex 05, France.*

Supporting Information

Contents

This journal is (c) The Royal Society of Chemistry 2011

Figure S1

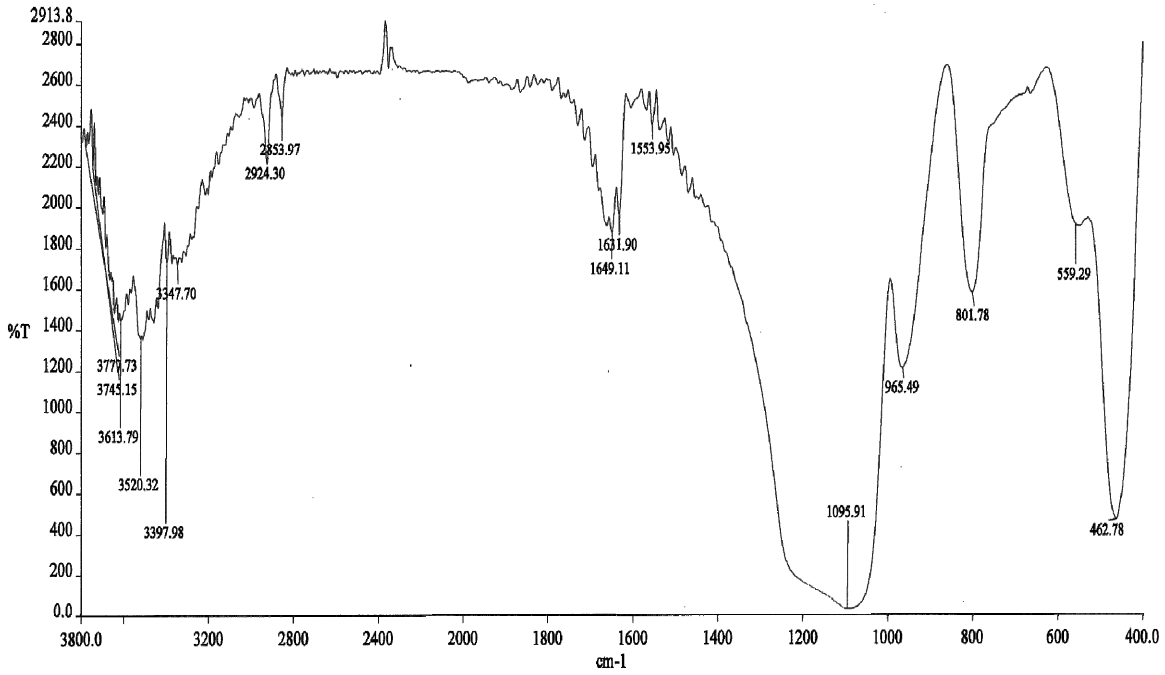

Figure S1: FTIR spectrum of **M1**.

Figure S2

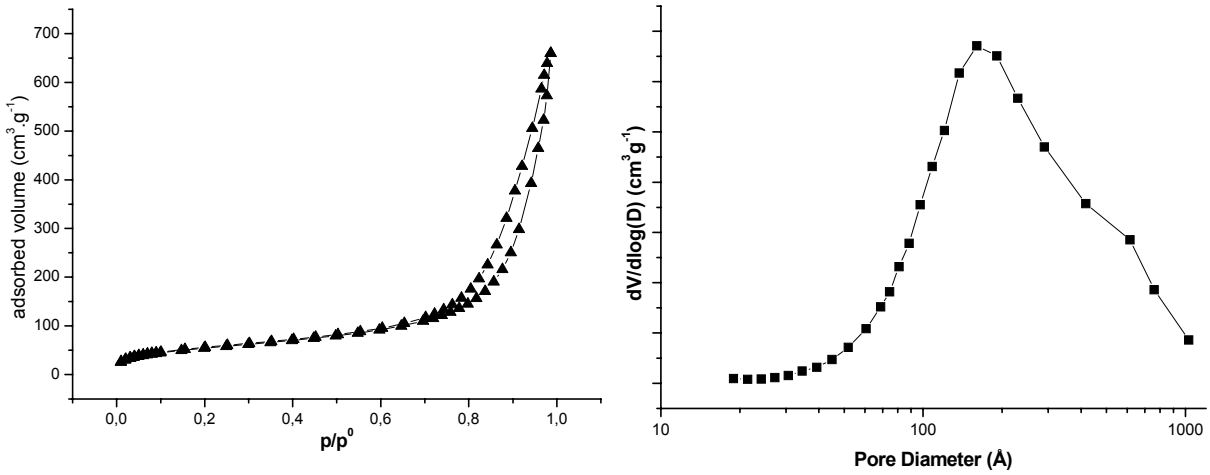

Figure S2: N_2 adsorption-desorption isotherm (left) and pore size distribution (BJH model on the desorption branch) (right) of **M1**.

This journal is (c) The Royal Society of Chemistry 2011

Figure S3

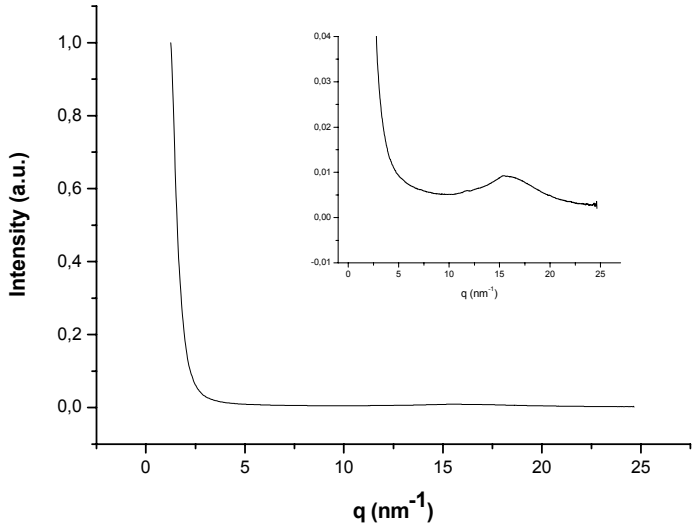

Figure S3: PXRD of silica **M1**.

Figure S4

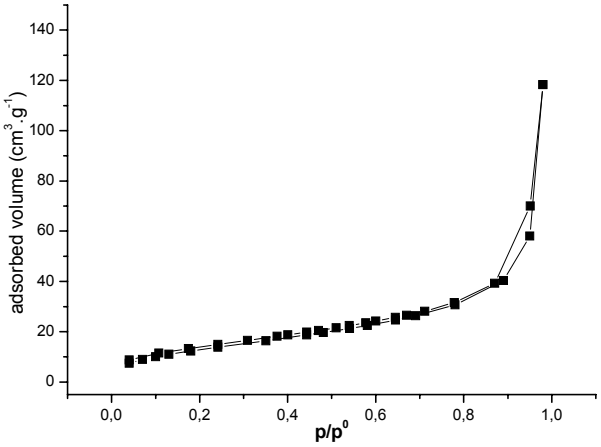

Figure S4: N_2 adsorption-desorption isotherm of **M2**.

Figure S5

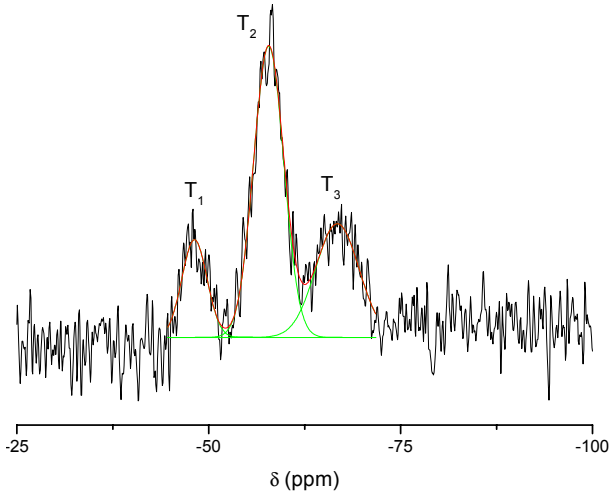

Figure S5: ^{29}Si solid state CP-MAS NMR spectrum of **H** deconvoluted into 3 components (T_1 = C-Si(OH)$_2$(OSi); T_2 = C-Si(OH)(OSi)$_2$; T_3 = C-Si(OSi)$_3$).

Figure S6

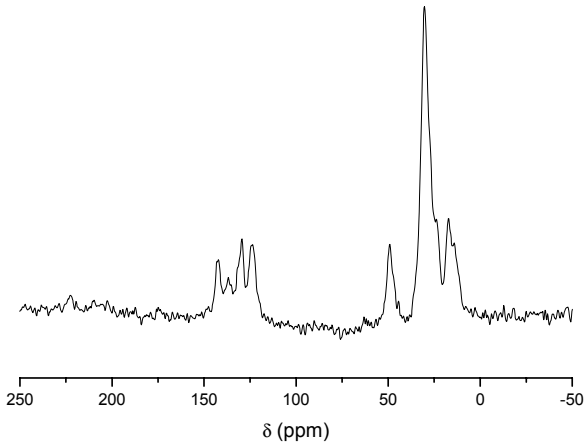

Figure S6: ^{13}C solid state CP-MAS NMR spectrum of **H**.

This journal is (c) The Royal Society of Chemistry 2011

Figure S7

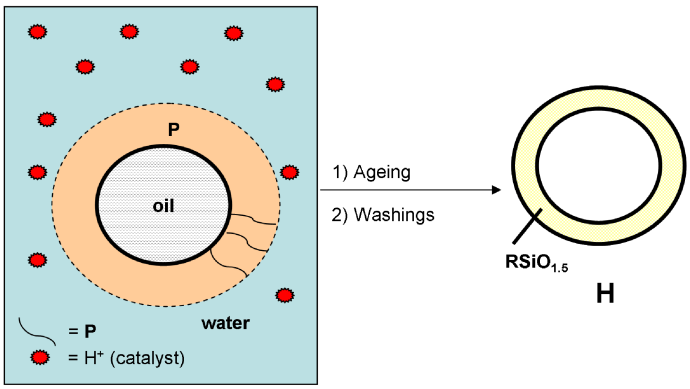

Figure S7: Proposed mechanism of formation of hybrid silica **H**.