

Supplementary Materials: Pressure-Dependent Confinement Effect of Ionic Liquids in Porous Silica

Teng-Hui Wang, En-Yu Lin and Hai-Chou Chang

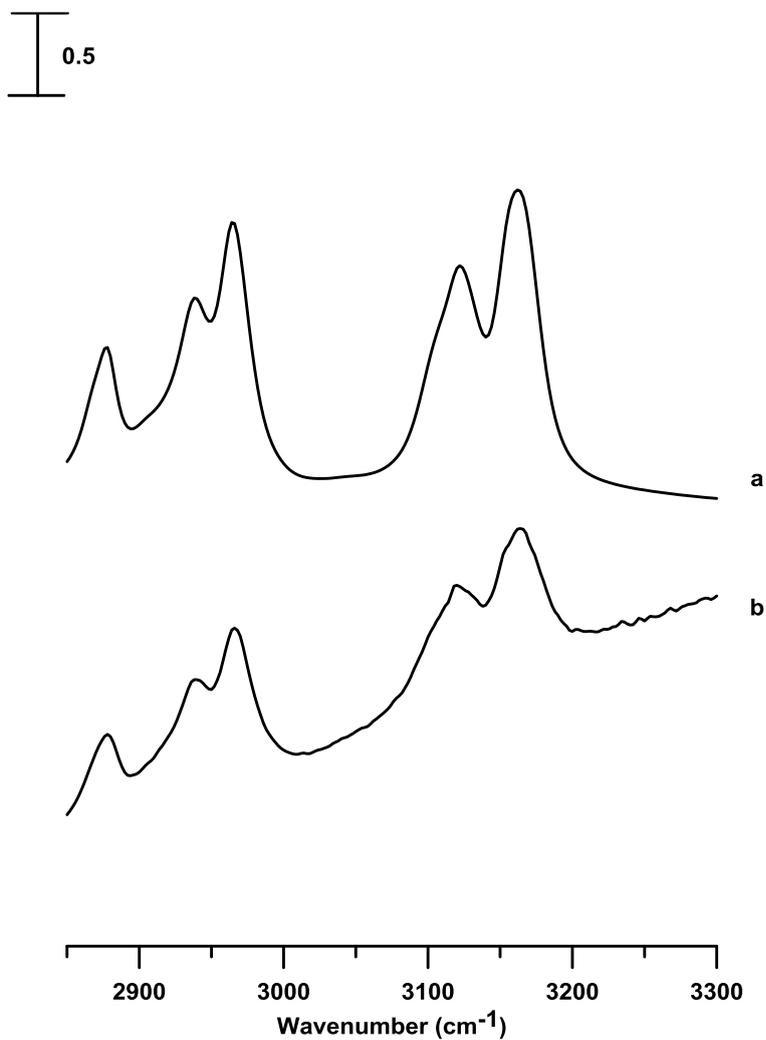


Figure S1. Infrared spectra of (a) pure $[\text{C}_4\text{C}_1\text{Im}][\text{BF}_4]$ and (b) $[\text{C}_4\text{C}_1\text{Im}][\text{BF}_4]$ in a silica matrix, recorded at ambient pressure.

Commented [M1]: We did a layout for the supplementary according to our rules, please confirm

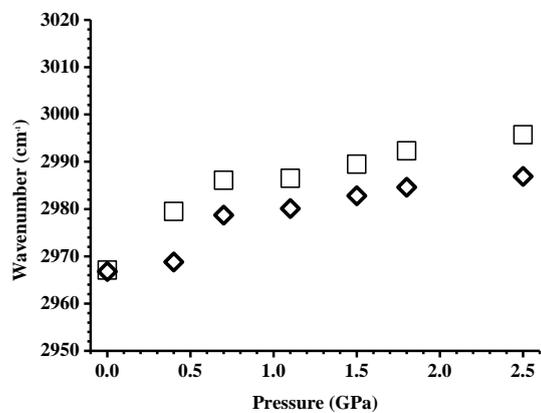


Figure S2. Pressure dependence of the C-H stretching frequencies at 2967 cm^{-1} of the pure [C4Cl1Im][BF4] (squares) and [C4Cl1Im][BF4] in a silica matrix (diamonds).

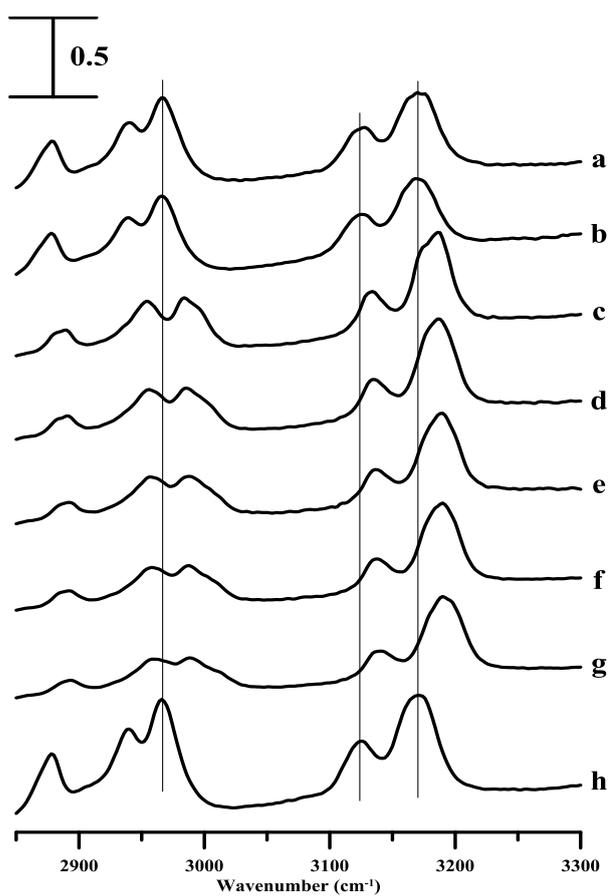


Figure S3. Infrared spectra of the pure [C4Cl1Im][PF6] obtained at (a) ambient pressure and at (b) 0.4, (c) 0.7, (d) 1.1, (e) 1.5, (f) 1.8, (g) 2.5 GPa, and (h) back to ambient.

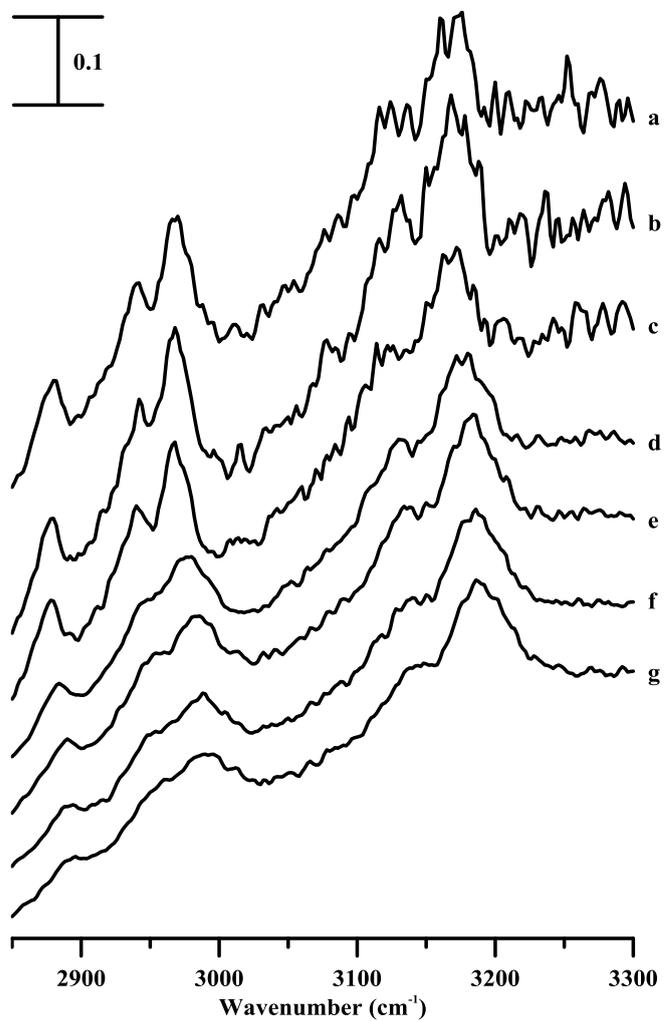


Figure S4. Infrared spectra of [C4ClIm][PF6] in a silica matrix obtained at (a) ambient pressure and at (b) 0.4, (c) 0.7, (d) 1.1, (e) 1.5, (f) 1.8, and (g) 2.5 GPa

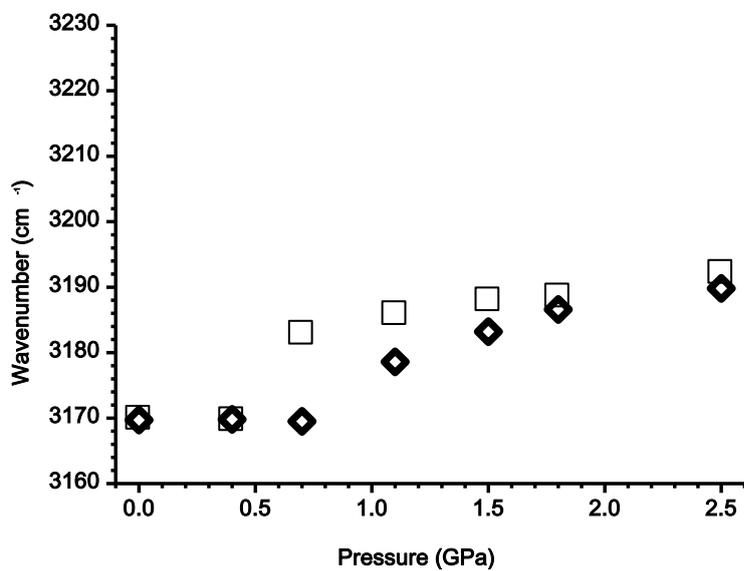


Figure S5. Pressure dependence of the C-H stretching frequencies at 3170 cm⁻¹ of the pure [C4C1Im][PF6] (squares) and [C4C1Im][PF6] in a silica matrix (diamonds).