Electronic Supplementary Information

Oxadiazolylpyridines and perfluoroalkylcarboxylic acids as building blocks for protic ionic liquids: crossing the thin line between ionic and hydrogen bonded materials.

I. Pibiri,*^a A. Pace,^{a,b} S. Buscemi,^a V. Causin,^c F. Rastrelli,^c G. Saielli*^d

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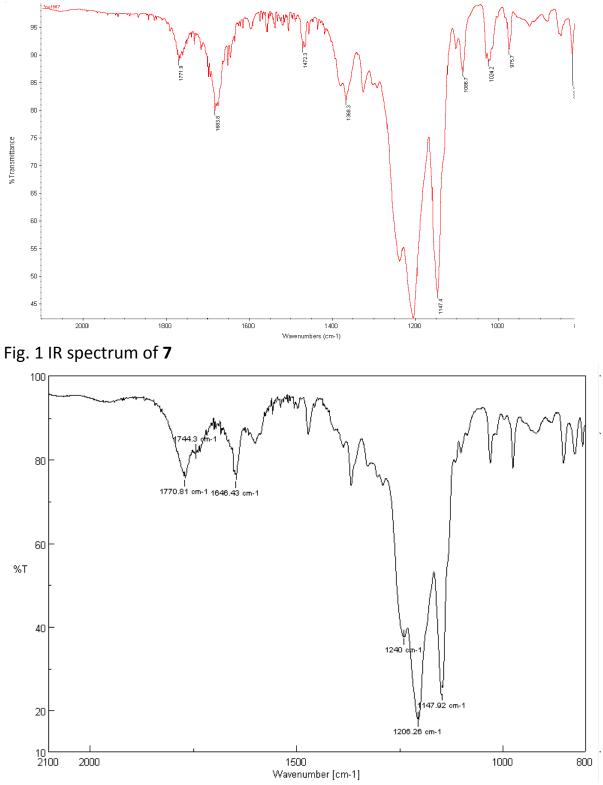
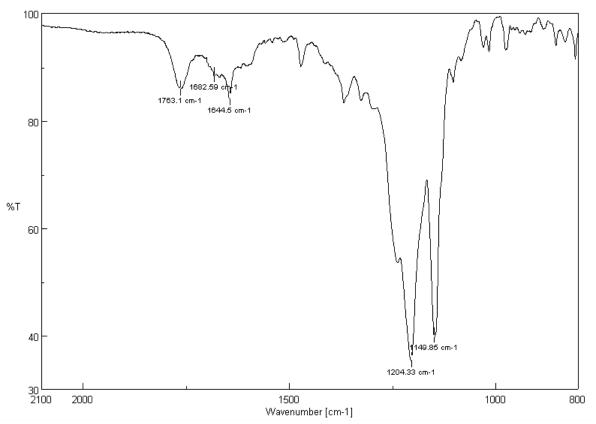
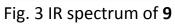


Fig. 2 IR spectrum of 8





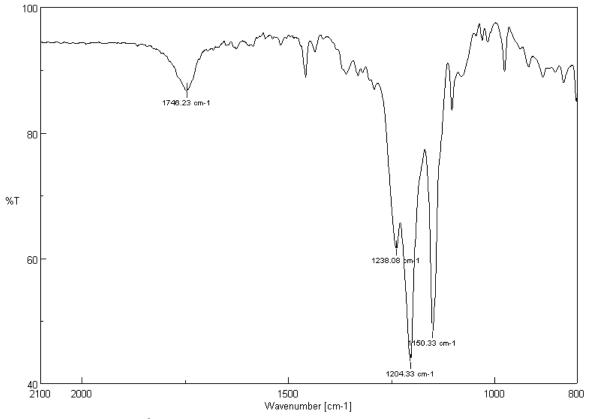
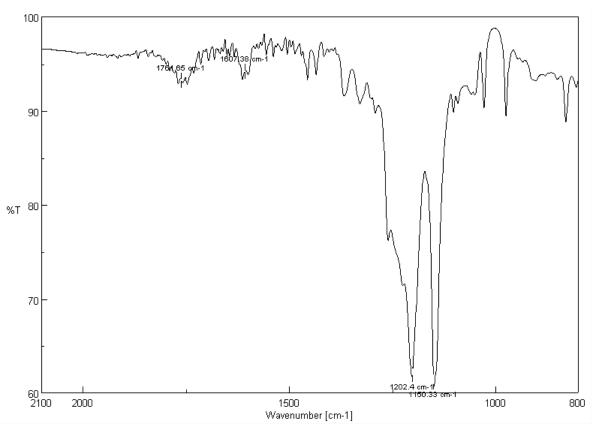


Fig. 4 IR spectrum of 10





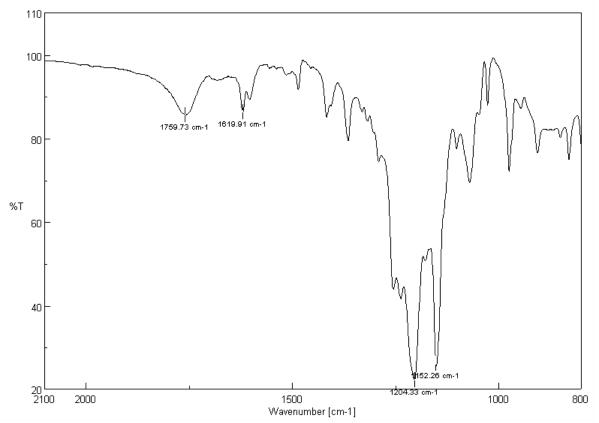
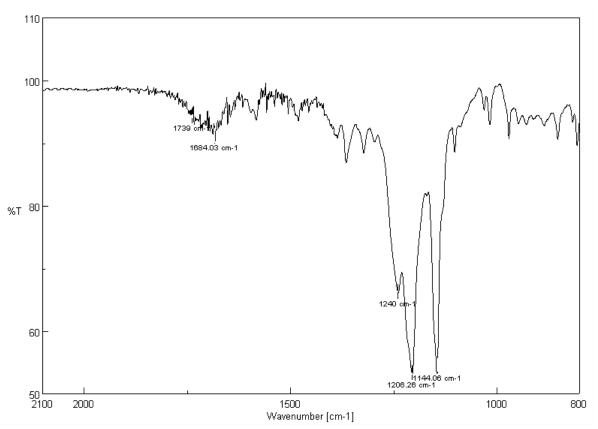


Fig. 6 IR spectrum of 12





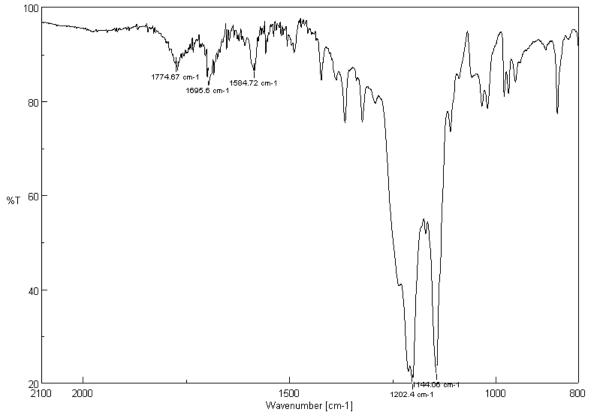
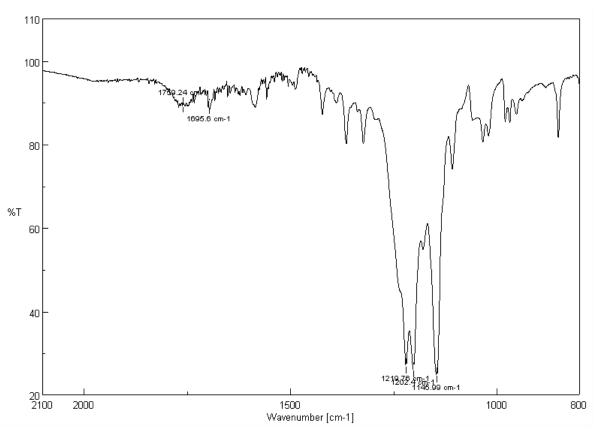


Fig. 8 IR spectrum of 14





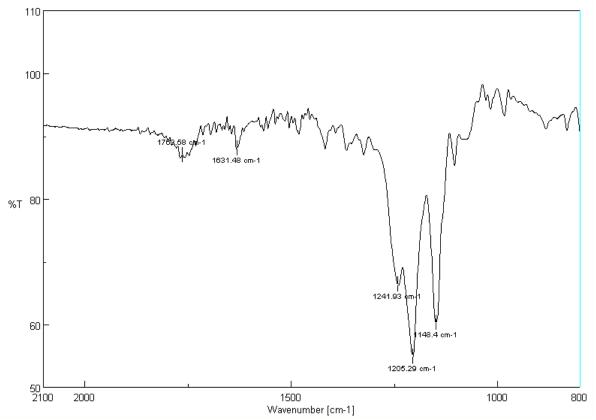
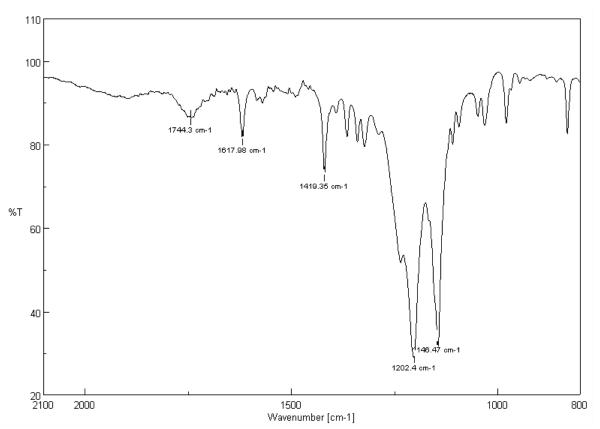


Fig. 10 IR spectrum of 16





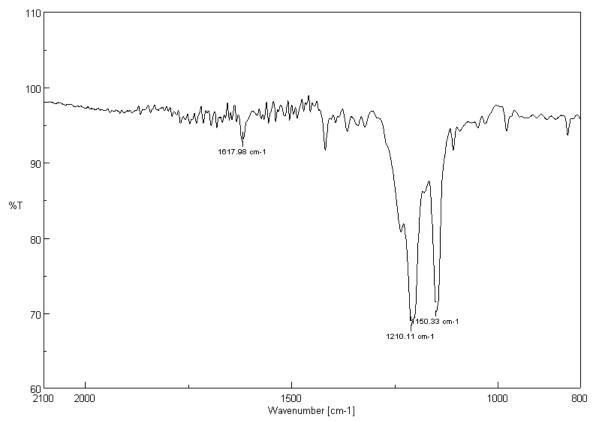
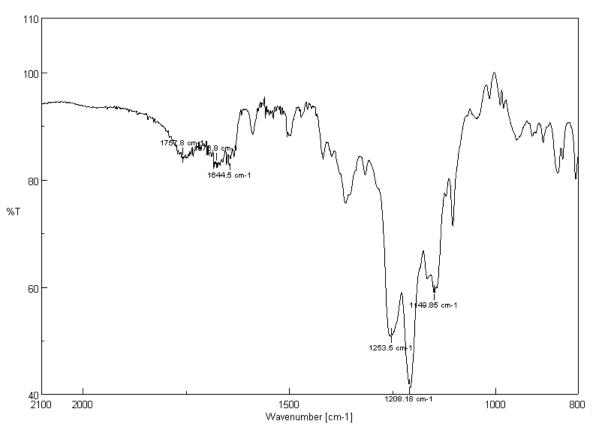


Fig. 12 IR spectrum of 18





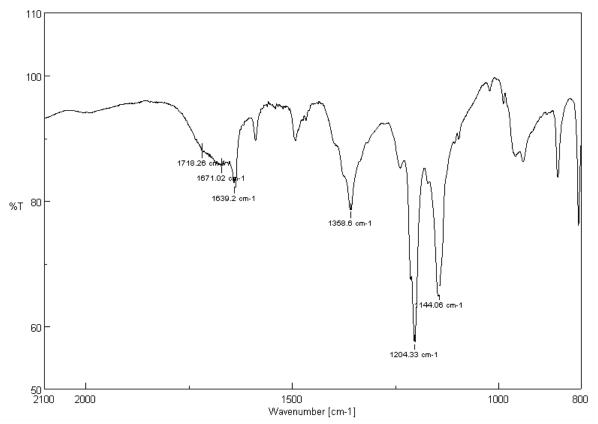
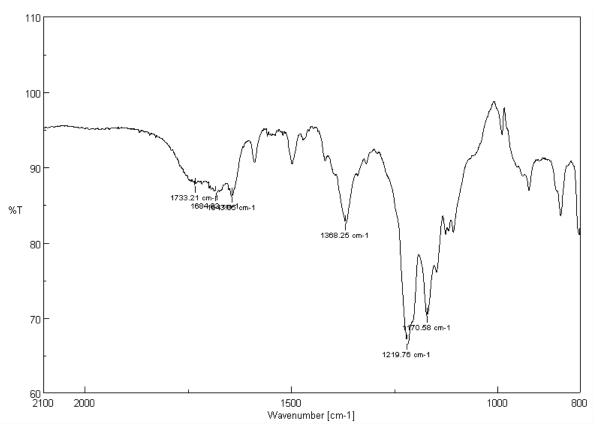


Fig. 14 IR spectrum of 20





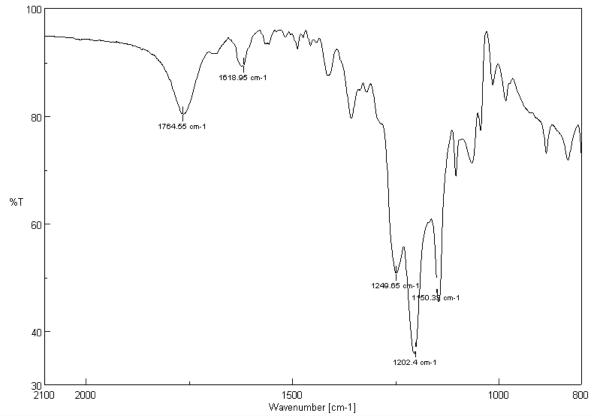
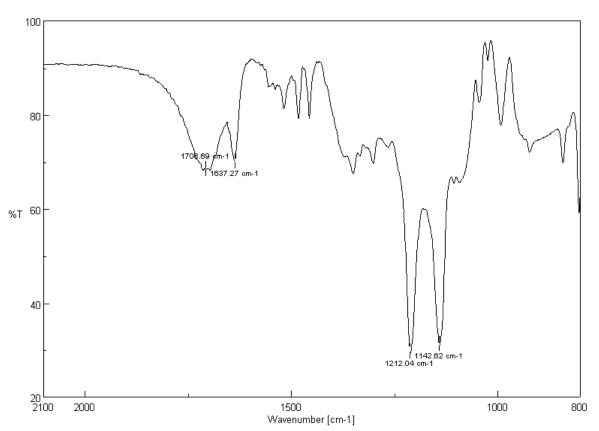


Fig. 16 IR spectrum of 22

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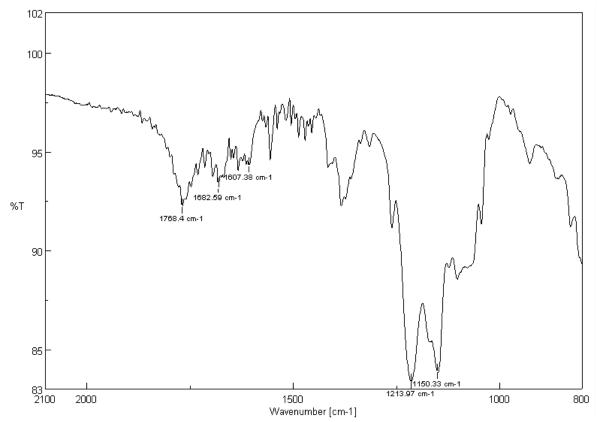


Fig. 18 IR spectrum of 24

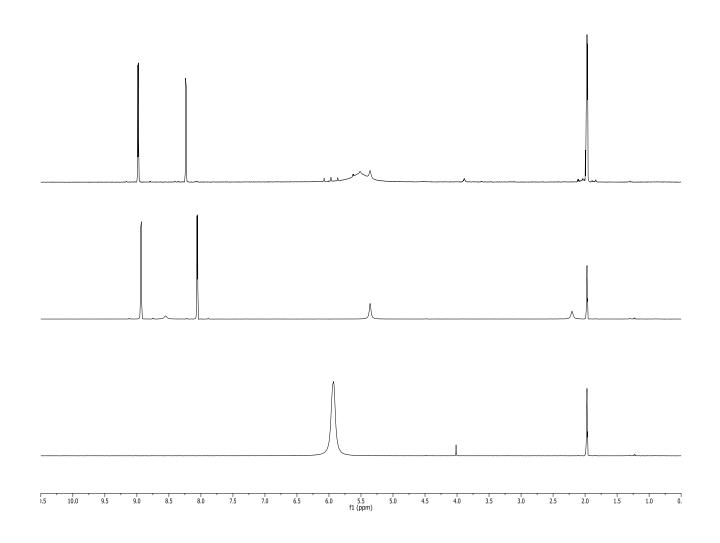


Figure 19: ¹H NMR spectra (CD₃CN, 500 MHz) of (from top to bottom) **14**, **3** and perfluorosuberic acid.

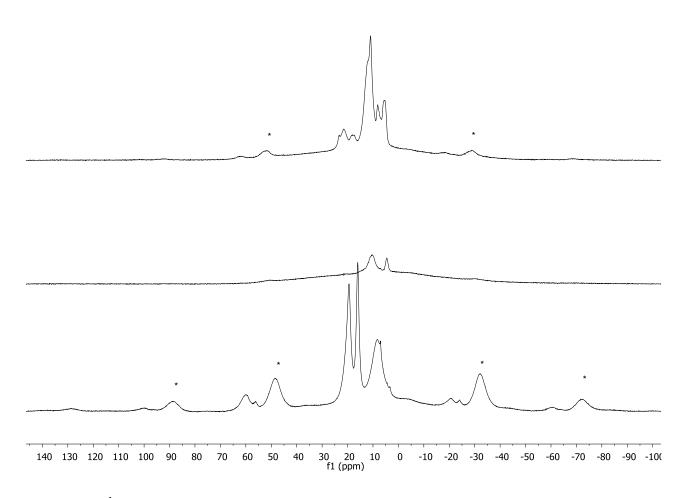


Figure 20: ¹H (400 MHz) 16 KHz MAS NMR spectra (from top to bottom) **14**, **3** and perfluorosuberic acid.

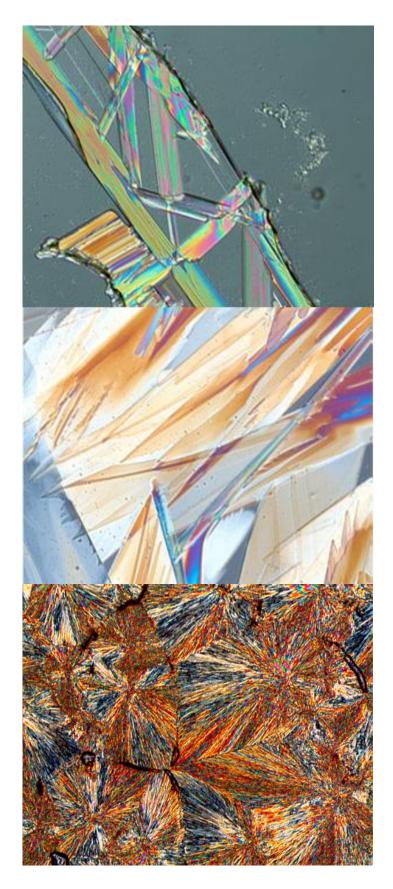


Figure 21: Spherulitic textures of (from top to bottom) **14 15** and **17** after cooling from the melt.

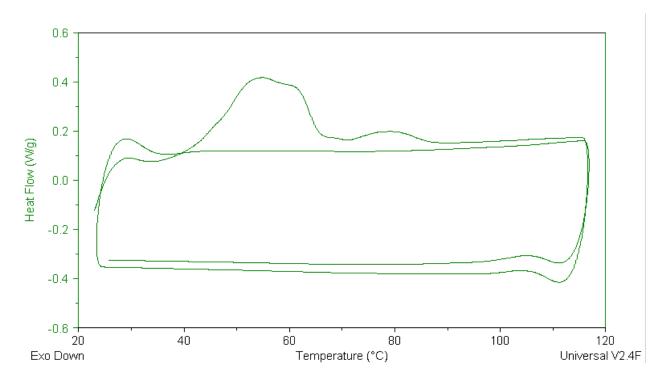


Figure 22. DSC runs (two heating runs followed by two cooling runs) of compound 9.