

Supplementary data

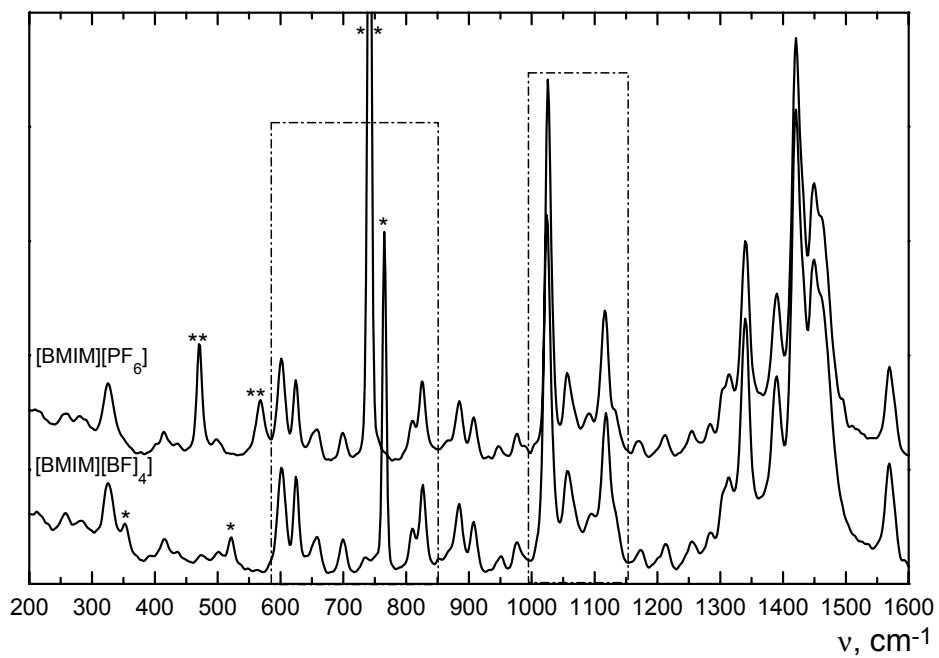


Figure 1S. Raman spectra of [BMIM][BF₄] and [BMIM][PF₆]. BF₄⁻ bands are marked with *, and PF₆⁻ bands – with **. Dot-dash borders mark conformationally sensitive regions, discussed in Ref. 39.

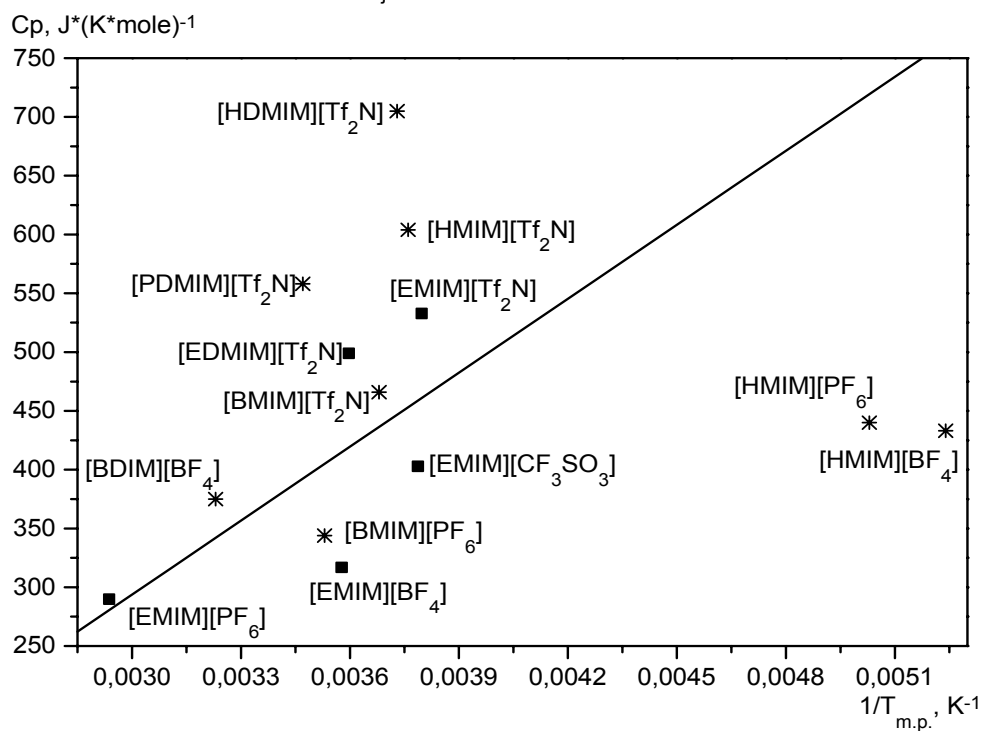


Figure 2S. Experimental heat capacities (C_p , measured at 323 K) vs. reciprocal melting point ($1/T_{m.p.}$) of some ionic liquids. ^{Error! Bookmark not defined.} Black squares correspond to less conformationally flexible [EMIM] cations and asterisks to more conformationally flexible cations with alkyl chains longer than ethyl.