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Electronic Supplementary Information

Interactions of Ionic Liquid and Surfaces of Graphene Related

Nanoparticles under High Pressures

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Figure S1. Pressure-dependence of the imidazolium C-H stretching frequencies at 3116 (A) and 3160 (B) cm⁻¹ of pure 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide ([BMIM][TFSA]) (diamonds) and RGO/[BMIM][TFSA] (squares).



Figure S2. Pressure-dependence of the alkyl C-H stretching frequencies of pure [BMIM][TFSA] (diamonds) and RGO/[BMIM][TFSA] (squares).