

Electronic Supplementary Material

1. Figure S1. XPS spectrum of exfoliated graphene sheets.....	2
2. Figure S2. Dependence of the UV–vis absorbance on the concentration of the exfoliated graphene sheets.....	3
3. Figure S3. UV–vis absorption spectrum of the BMIBF ₄ ionic liquid.....	4
4. Figure S4. Tyndall effect confirming the colloidal nature of the exfoliated graphene dispersions after standing for one month.....	5
5. Figure S5. FE-SEM image for the surface of the filtered graphene paper.....	6
6. Figure S6. Electrical conductivity of the filtered graphene paper.....	7
7. Figure S7. XRD patterns for the expanded HOPG.....	8

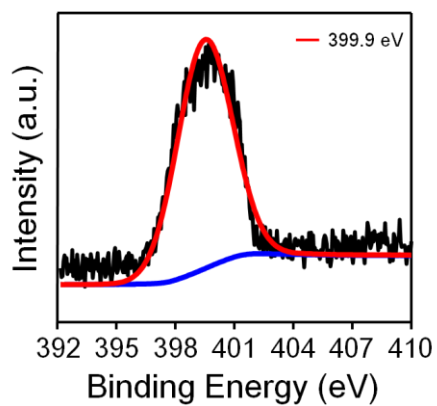


Figure S1. XPS spectra of exfoliated graphene sheets. Presence of N 1s confirms functionalization of the exfoliated graphene sheets by BMIBF₄.

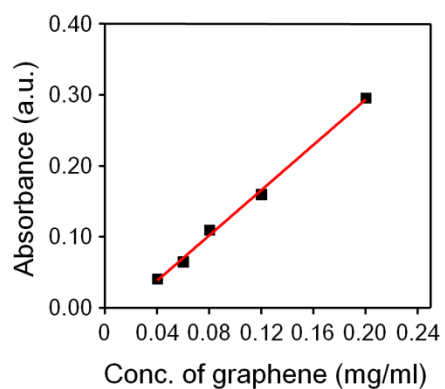


Figure S2. Dependence of the UV-vis absorbance on the concentration of exfoliated graphene sheets: 0.04, 0.06, 0.08, 0.12, and 0.20 mg mL⁻¹. The reference solution used was the BMIBF₄ ionic liquid.

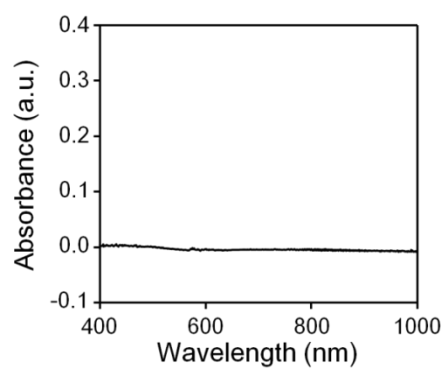


Figure S3. UV-vis absorption spectrum of the BMIBF₄ ionic liquid (the reference solution used was neat BMIBF₄).



Figure S4. Tyndall effect confirming the colloidal nature of the exfoliated graphene dispersions after standing for one month.

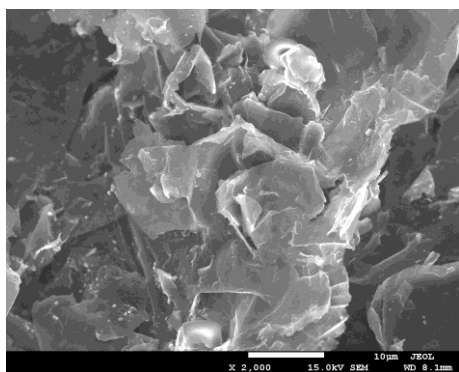


Figure S5. FE-SEM image for the surface of the filtered graphene paper.

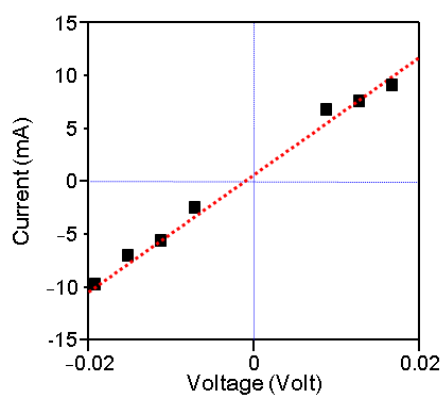


Figure S6. Electrical conductivity of the filtered graphene paper.

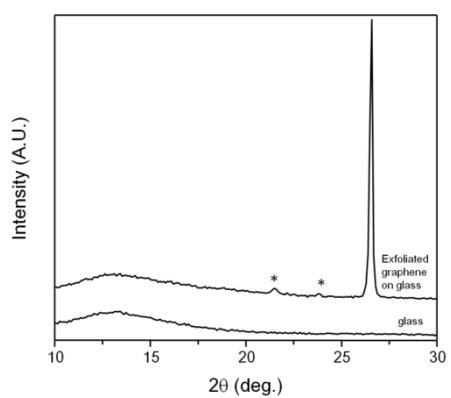


Figure S7. XRD patterns for the expanded HOPG.