

Supplymentary Materials



## Edge Functionalized Graphene Layers for (Ultra) High Exfoliation in Carbon Papers and Aerogels in the Presence of Chitosan

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**Figure S1.** <sup>1</sup>H NMR spectrum (DMSO-d6, 400 MHz) of 2-(2,5-dimethyl-1*H*-pyrrol-1-yl)-1,3-propanediol (SP).



Figure S2. TGA traces of HSAG-SP (a), HSAG-SP/CS (1:1 as mass ratio) aerogel (b), and CS (c).



Figure S3. HSAG/CS 1:1 carbon paper after 2 months storage in H<sub>2</sub>O (a), *n*-hexane (b) and DMF (c).



Figure S4. HSAG-SP/CS 1:1 aerogel after 2 months storage in H<sub>2</sub>O (a) *n*-hexane (b) and DMF (c).



Figure S5. HSAG-SP/CS 1:1 aerogel in water solutions having different pH.



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