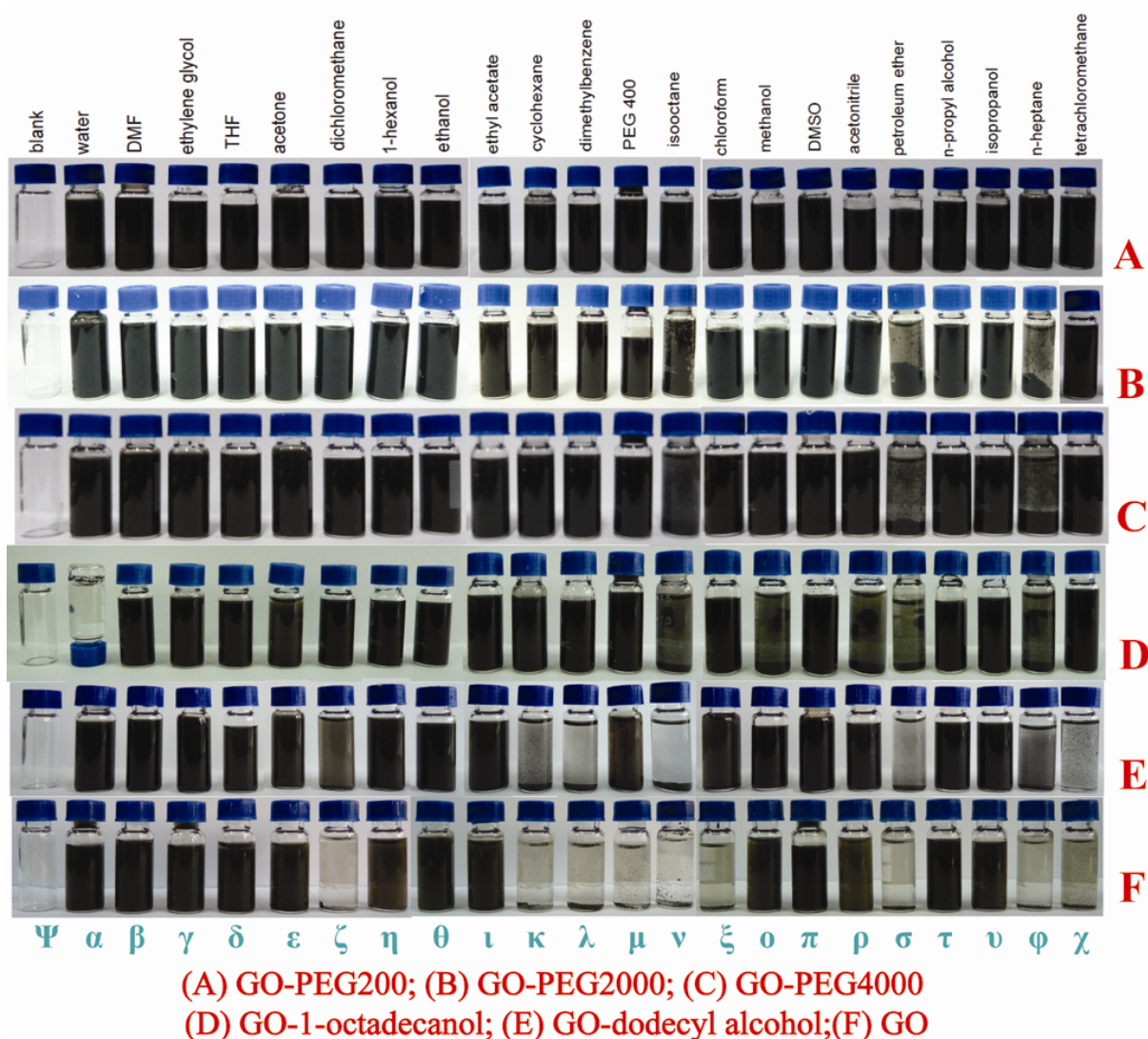


## Electronic supplementary information (ESI)

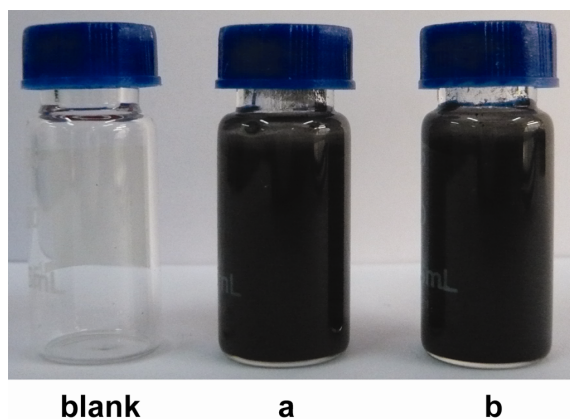
### Novel PEG functionalized graphene nanosheets: enhancement of dispersibility and thermal stability

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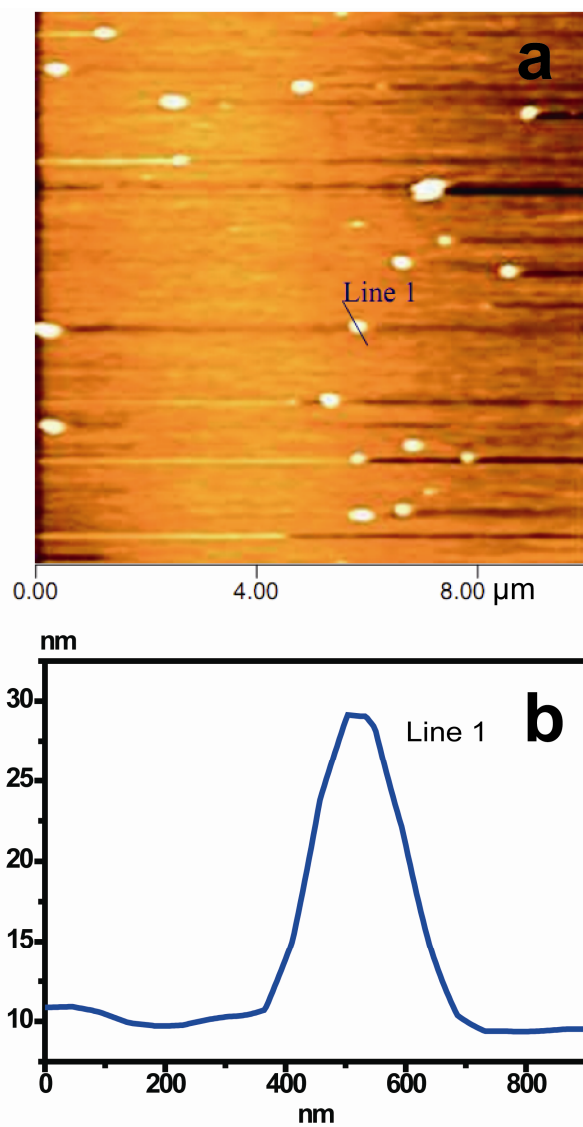
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**Fig. S1** Digital pictures of several typical hybrid materials and GO dispersed in water and 22 organic solvents



**Fig. S2** Digital pictures of GO-PEG400 nanosheets dispersed in phosphate buffer saline with different pH values. (a) pH=7.2; (b) pH=7.4



**Fig. S3** (a) AFM images ( $10\ \mu\text{ m} \times 10\ \mu\text{ m}$ ) and (b) section analyses of GO-PEG400 on mica substrates