

SUPPORTING INFORMATION

Mimicking the extracellular matrix by incorporating functionalized graphene into hybrid hydrogels

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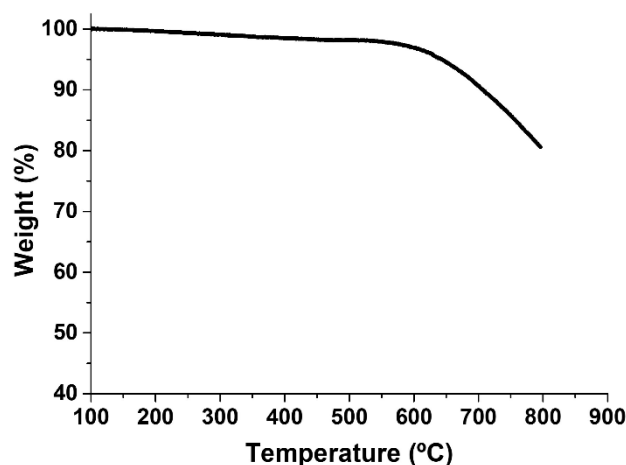


Figure S1. TGA analysis of FLG.

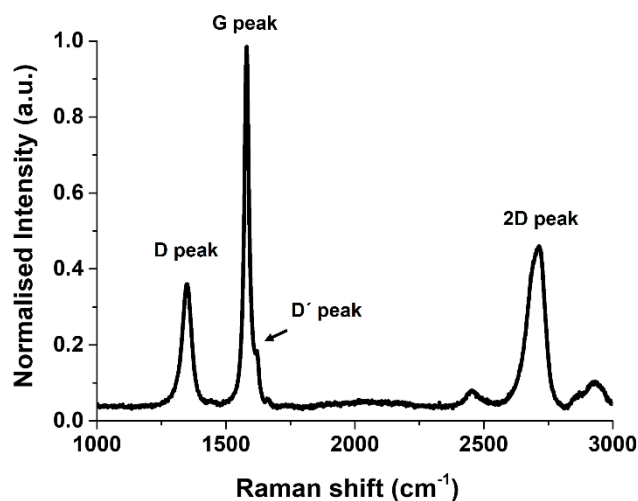


Figure S2. Raman spectra of FLG.

CALCULATION OF FLG LAYERS:

To obtain the number of layers in the graphene, the next equation is used:

$$N_G = 10^{0.84M+0.45M^2} \quad (\text{Eq. 1})$$

Where M is equal to:

$$M = \frac{I_{G'ene}(\omega = \omega_{p,G'ite})/I_{G'ene}(\omega = \omega_{s,G'ite})}{I_{G'ite}(\omega = \omega_{p,G'ite})/I_{G'ite}(\omega = \omega_{s,G'ite})} \quad (\text{Eq. 2})$$

Where $I_{G'_{ene}}$ and $I_{G'_{ite}}$ correspond with the intensity of G' band for graphene and for graphene and graphite, respectively.

Thus, in our sample:

$$M = \frac{0.4196/0.3772}{0.46658/0.24872} = 0.5929914 \rightarrow N_G = 10^{0.84 \cdot 0.5929914 + 0.45 \cdot 0.5929914^2} = 4$$

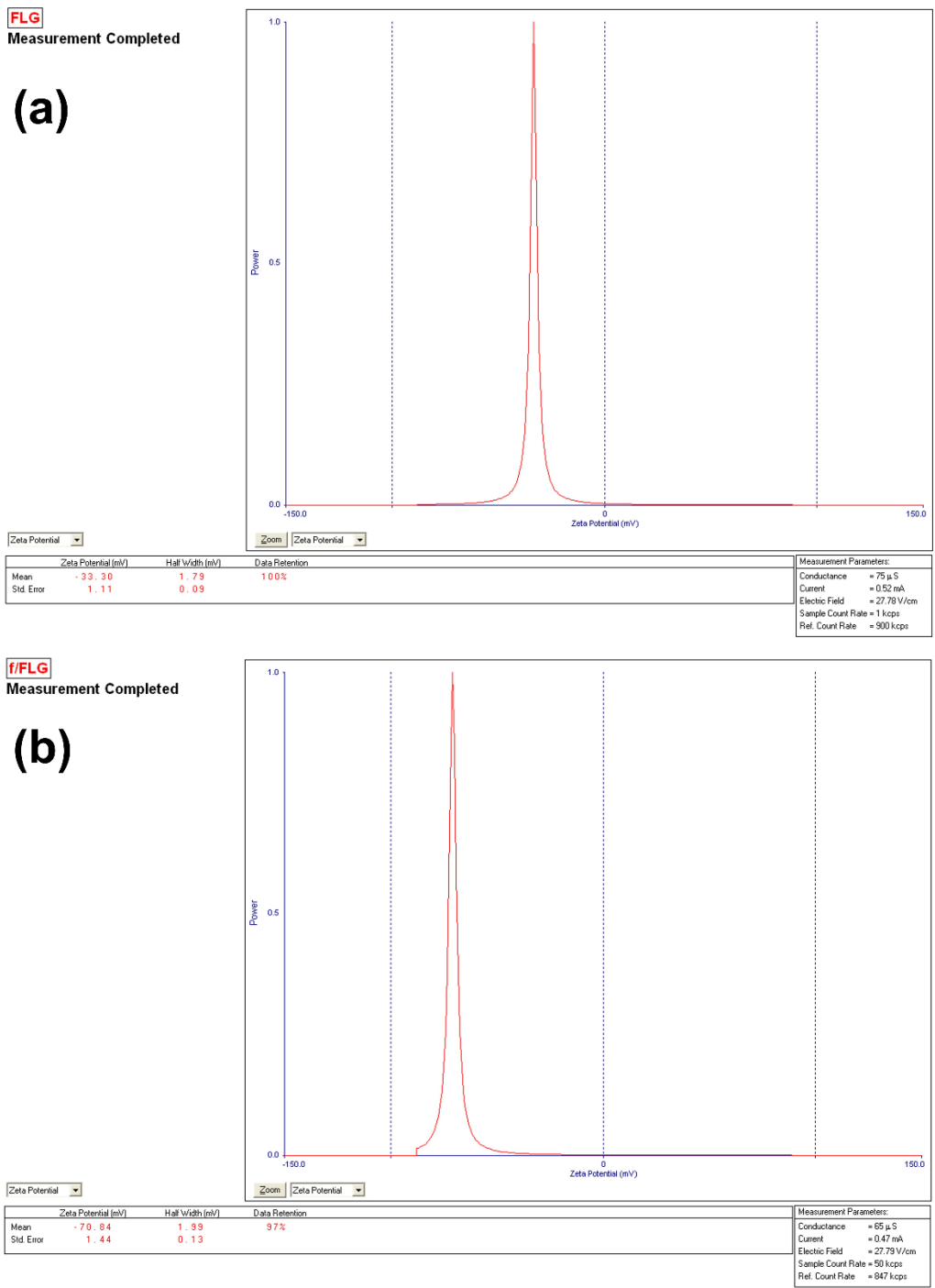


Figure S3. Z-potential of **(a)** FLG and **(b)** f-FLG.