

Self-assembly of multilayered functional films based on graphene oxide sheets for controlled release

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Supporting Information

Fig. S1 (a) XRD patterns of powdered graphite before and after oxidation; (b) A typical AFM image of exfoliated graphene oxide sheets dispersed on the silicon surface.

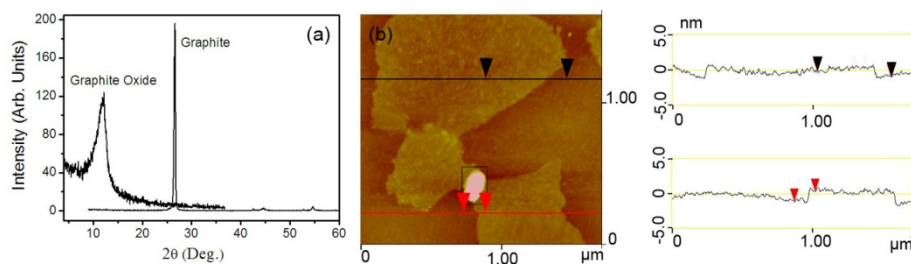


Fig. S2 The detailed desorption process of the hybrid films under QCM-D observation. Part of the curves in (a) are locally magnified in (b).

Periodic fluctuations can be clearly observed on the curves especially within the gently sloping stages. The period of the fluctuations (Δt) of different samples are nearly the same within experimental errors (1240 ± 60 s).

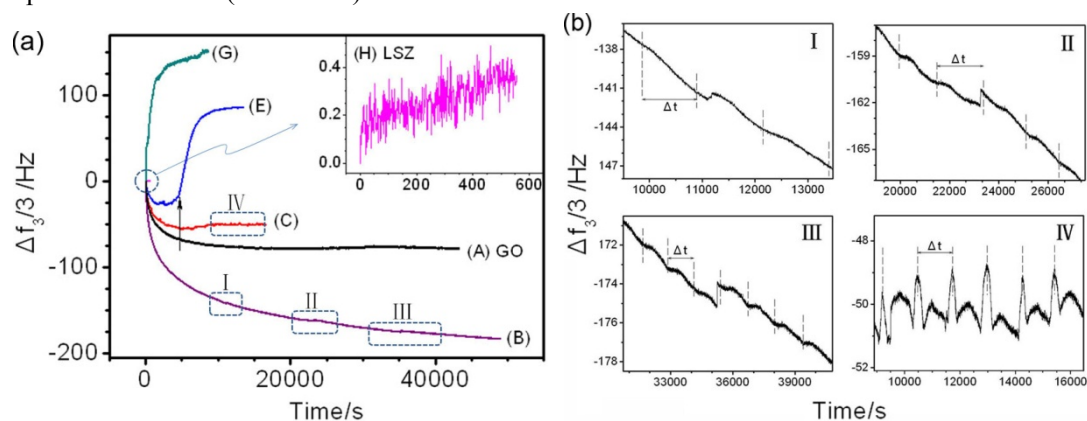


Fig. S3 Desorption/hydration processes of the samples with different thicknesses at the same relative concentration of LSZ to GO (LSZ/GO=2.5/1). The volumes of the host solution for the film fabrication are 2, 3.5 and 5 μ l for curves (A), (B) and (C), respectively.

