

# **Optimization and Doping of Reduced Graphene Oxide-Silicon Solar Cells**

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Supplemental information:

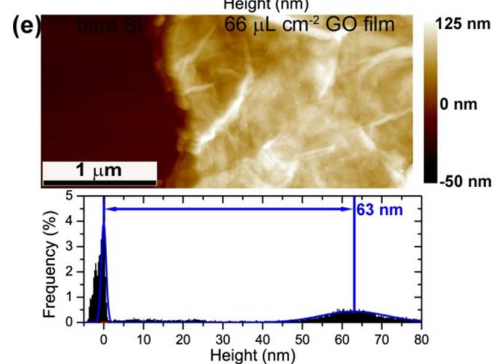
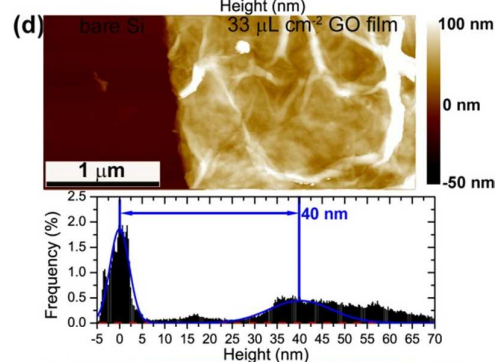
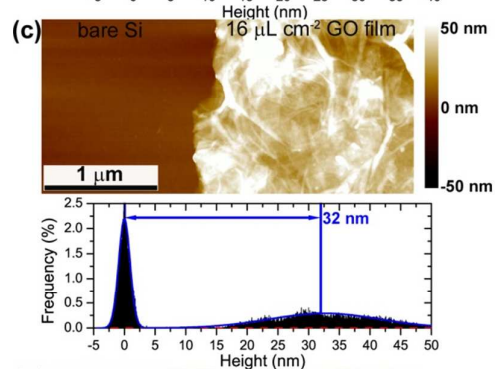
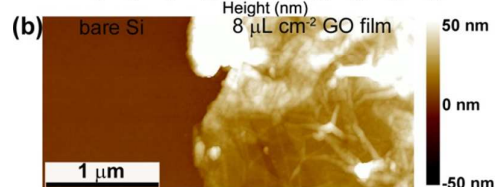
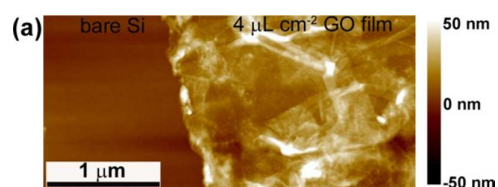


Figure S1: AFM height images and histograms of a (a)  $4 \mu\text{L}\cdot\text{cm}^{-2}$  film, (b)  $8 \mu\text{L}\cdot\text{cm}^{-2}$  film (c)  $16 \mu\text{L}\cdot\text{cm}^{-2}$  film, (d)  $33 \mu\text{L}\cdot\text{cm}^{-2}$  film and (e)  $66 \mu\text{L}\cdot\text{cm}^{-2}$  GO films. The flat area on the left of each image is the bare substrate exposed by the scratch.

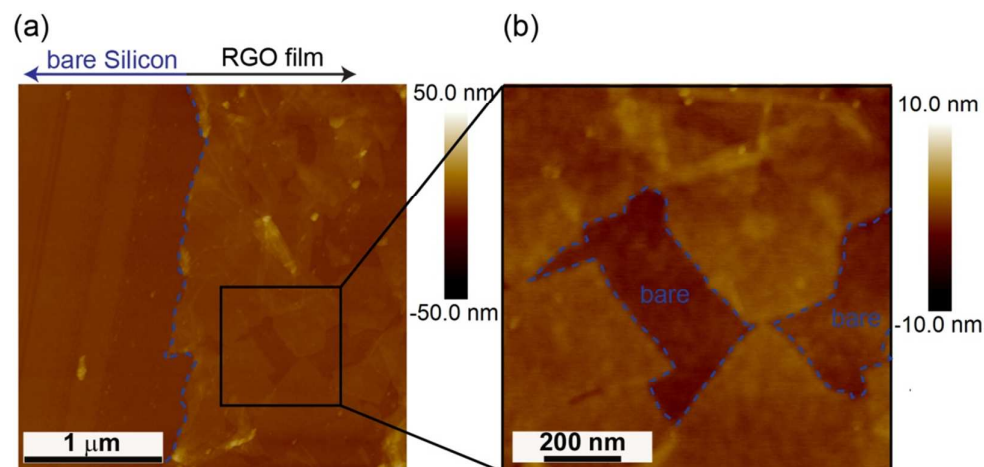


Figure S2: AFM image of  $4 \mu\text{L}\cdot\text{cm}^{-2}$  film annealed at  $400^\circ\text{C}$ , with dashed lines added to image to show (a) bare silicon substrate area obtained using a scalpel and (b) areas of coating in RGO film which do not cover the substrate.