

Electronic Supplementary Material

Efficient and Large-Scale Synthesis of Few-Layered Graphene Using an Arc-Discharge Method and Conductivity Studies of the Resulting Films

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1. TEM images of the graphene sheets produced using the optimized conditions.

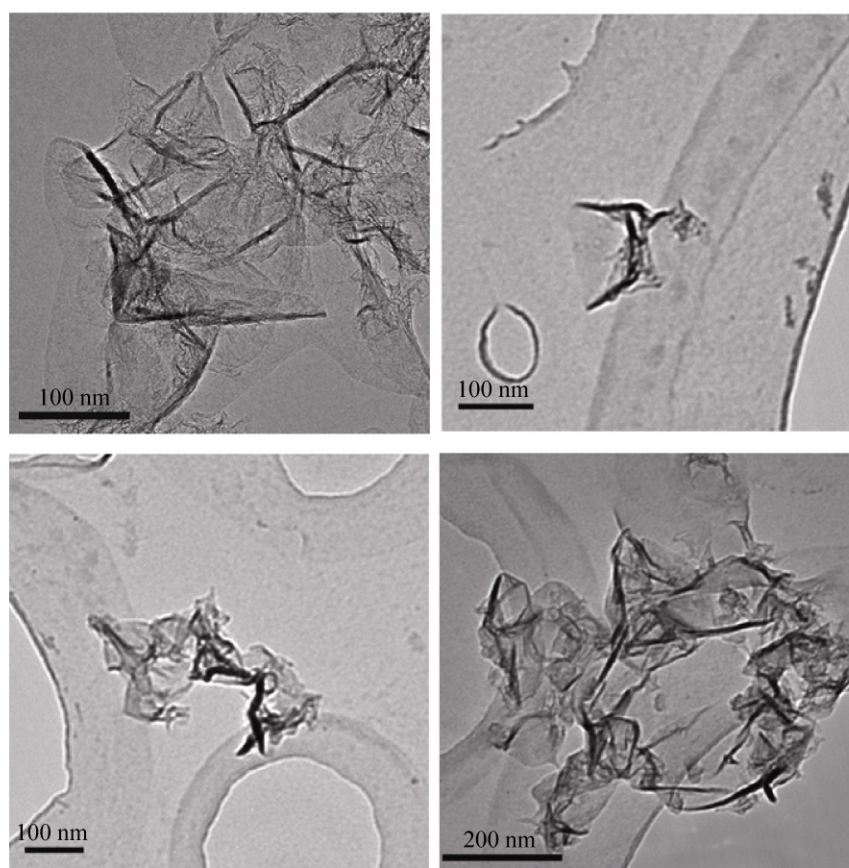


Figure S-1 TEM images of the graphene sheets produced using the optimized conditions

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2. AFM images of the few-layered graphene sheets.

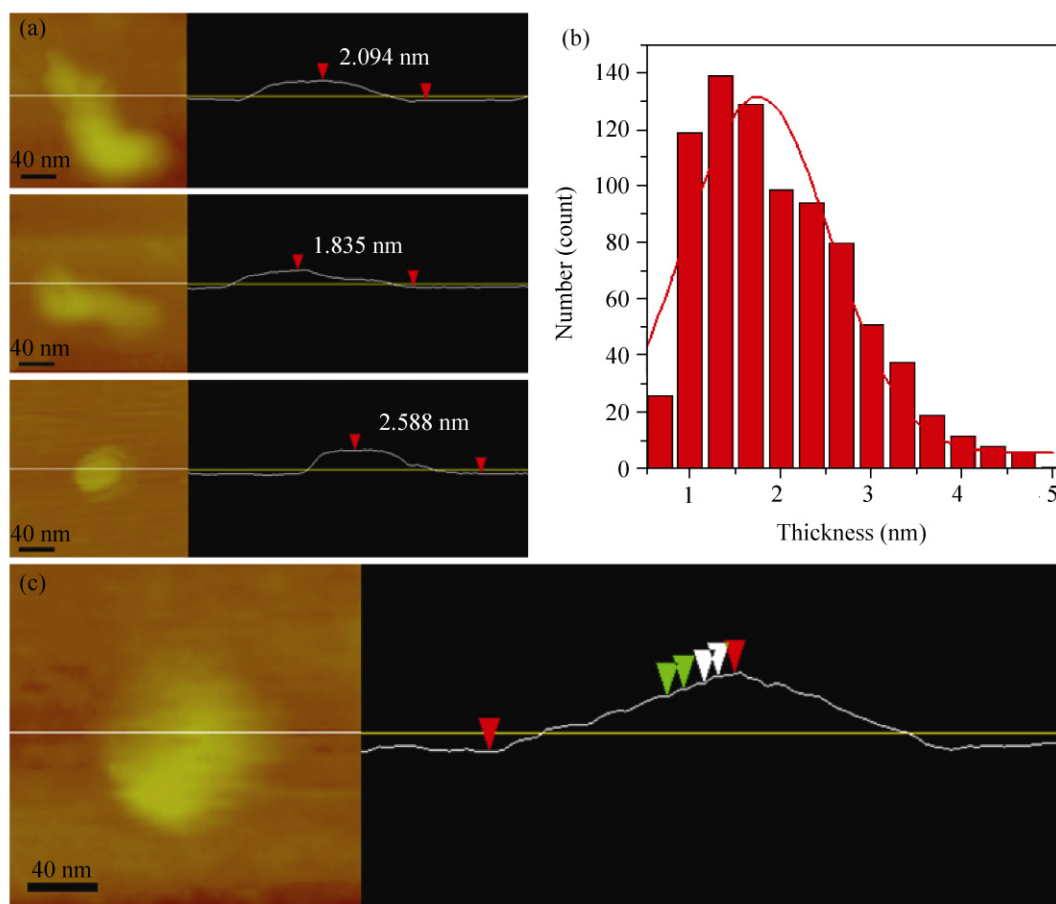


Figure S-2 (a) Three typical AFM images of few-layered graphene with height profiles showing that the thickness is around 1–3 nm at the edges. (b) The height of the graphene sheets exhibits a Gaussian distribution with the modal value of the height at ~ 1.76 nm, based on an analysis of 800 sheets of graphene. (c) A typical AFM image shows the fine structure of a piece of the few-layered graphene. The steps indicated by the green and white arrows are 0.358 and 0.375 nm, corresponding to the spacing between the graphene sheets