



Supporting Information

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Freestanding Aligned Carbon Nanotube Array Grown on a Large-Area Single-Layered Graphene Sheet for Efficient Dye-Sensitized Solar Cell

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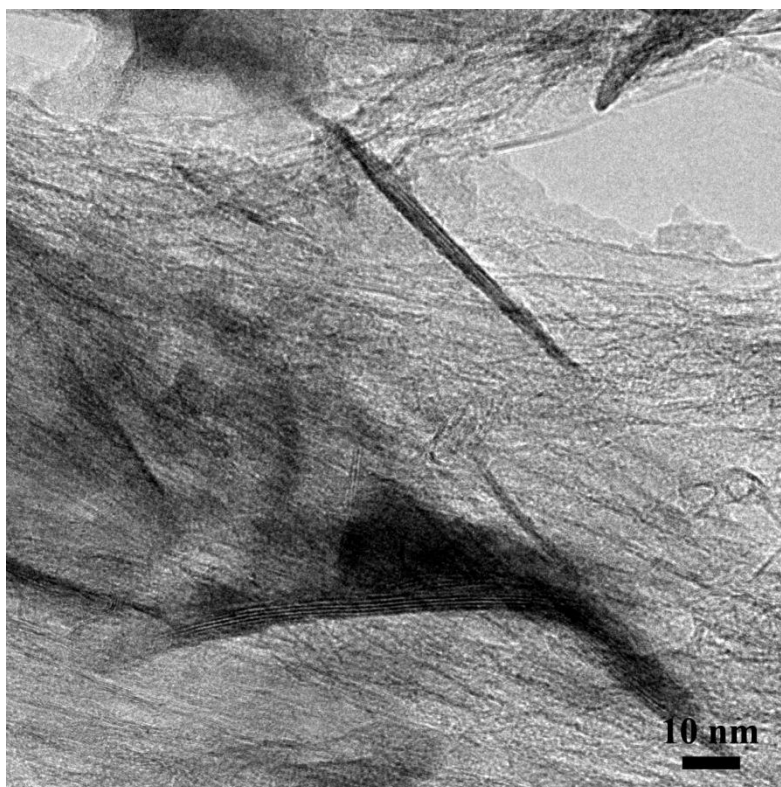


Figure S1. High resolution transmission electron microscopy image of a graphene sheet being stacked into an aggregate during the preparation of the sample.

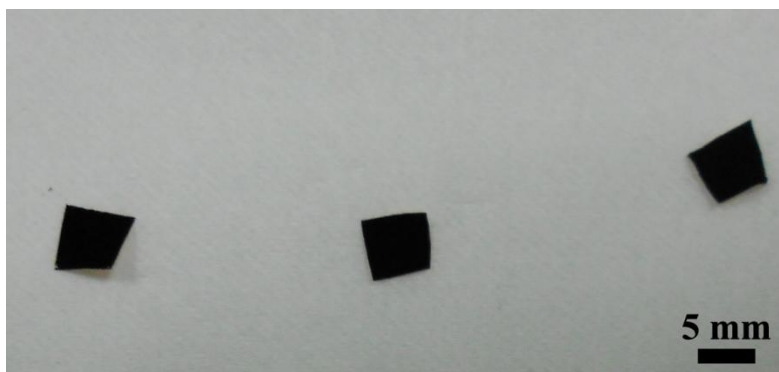


Figure S2. Photograph of the as-synthesized aligned CNT arrays on the large-area singler-layered graphene sheet.

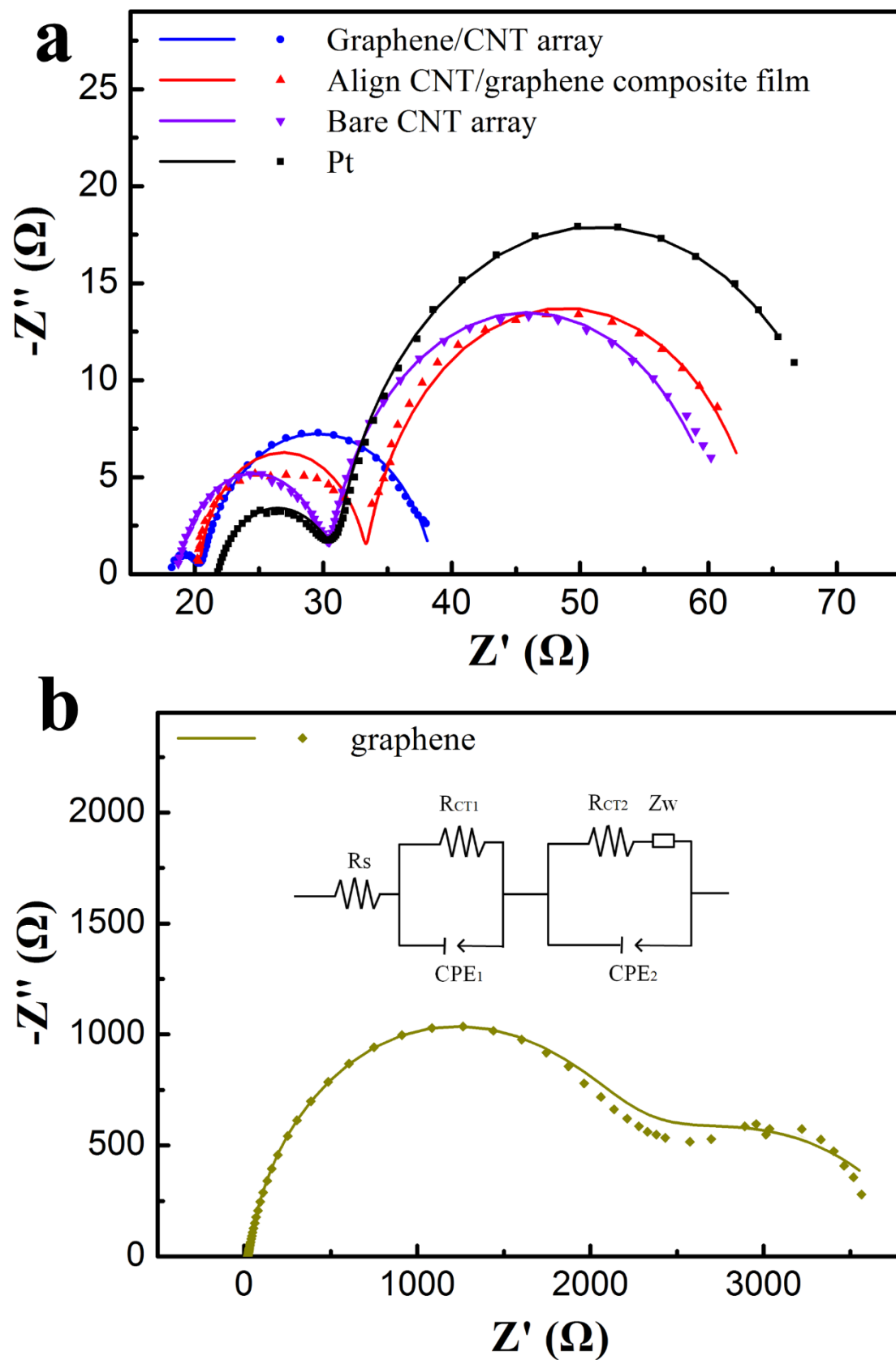


Figure S3. EIS characterizations of different counter electrodes with a bias of -0.8V. The dots and lines correspond to the measured and fitted data. The inserted graph at **b** shows the equivalent circuit.

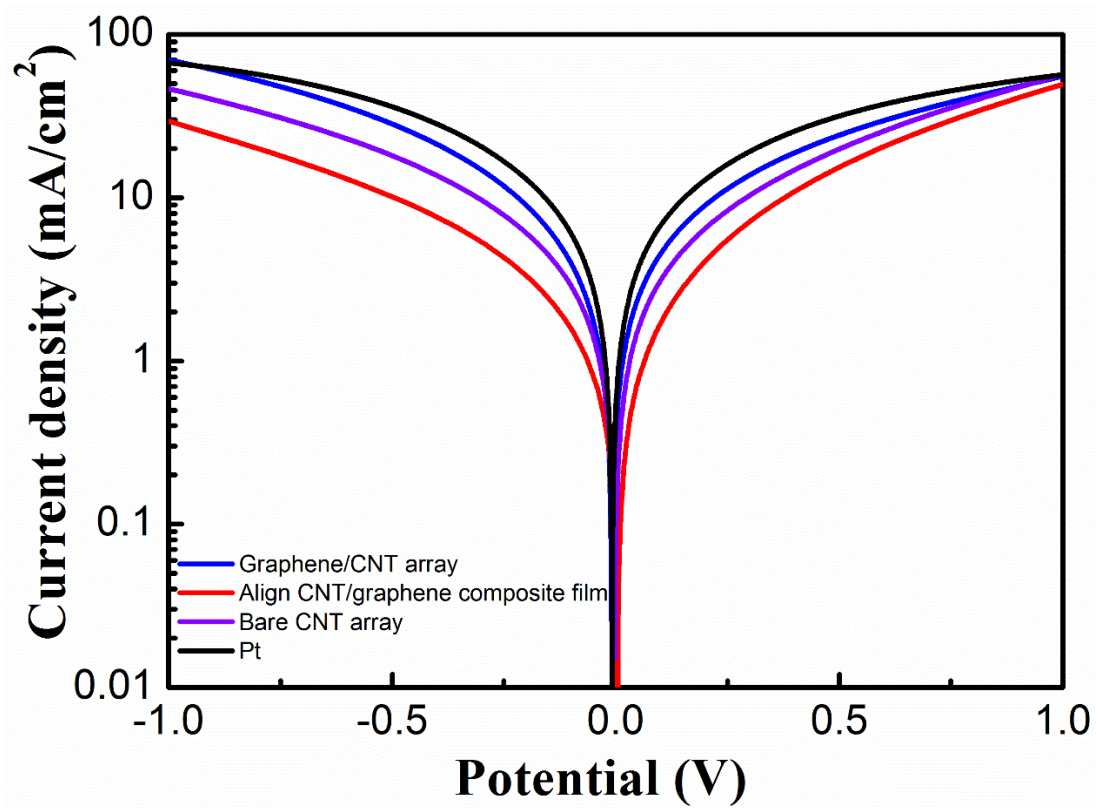


Figure S4. Tafel polarization curves of symmetrical cells fabricated with different counter electrodes.

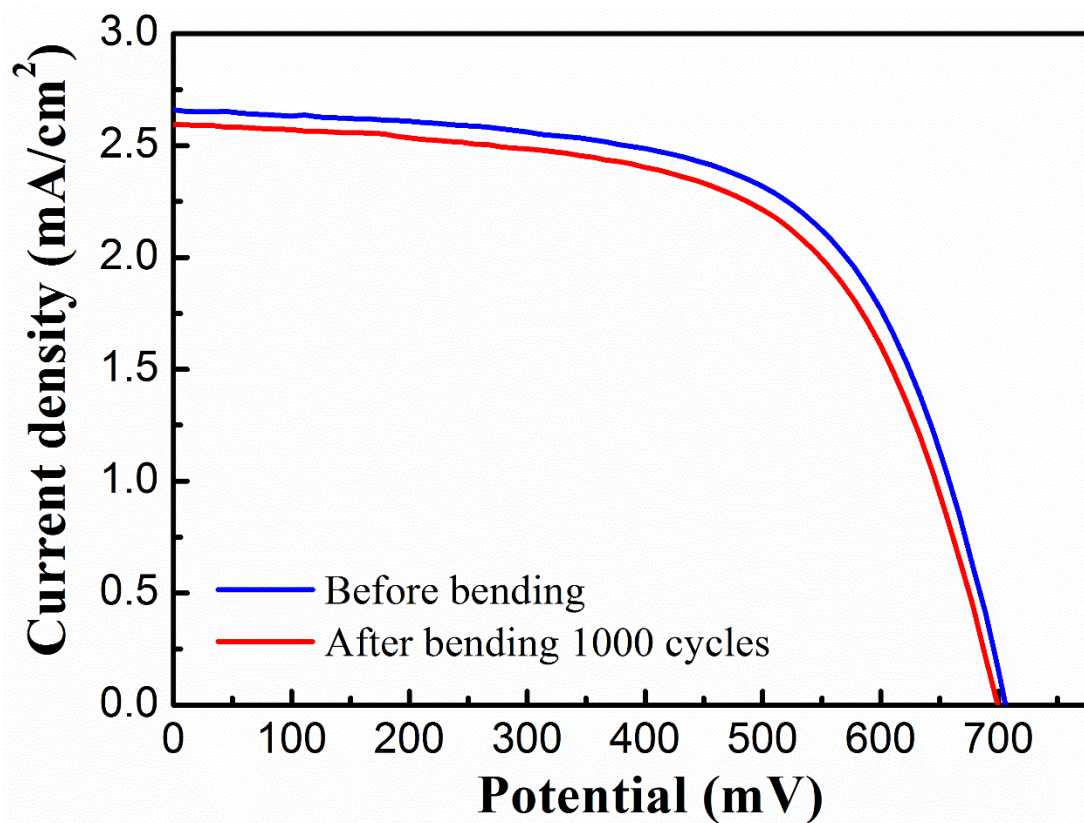


Figure S5. J-V curves of a DSC fabricated from the graphene/CNT hybrid array counter electrode before and after bending for 1000 cycles.