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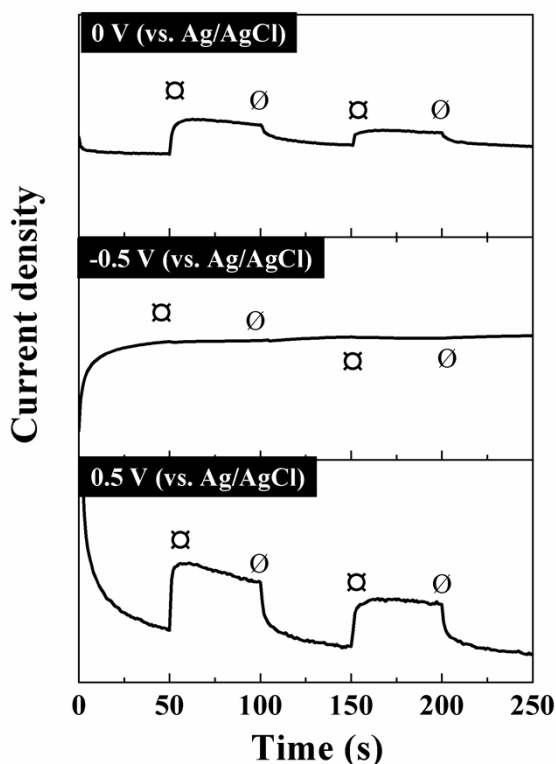
ARTICLE TYPE

Electronic Supplementary Information for “The Enhanced Photoactivity of Hydrogenated TiO₂ @ Reduced Graphene Oxide with p-n Junctions”

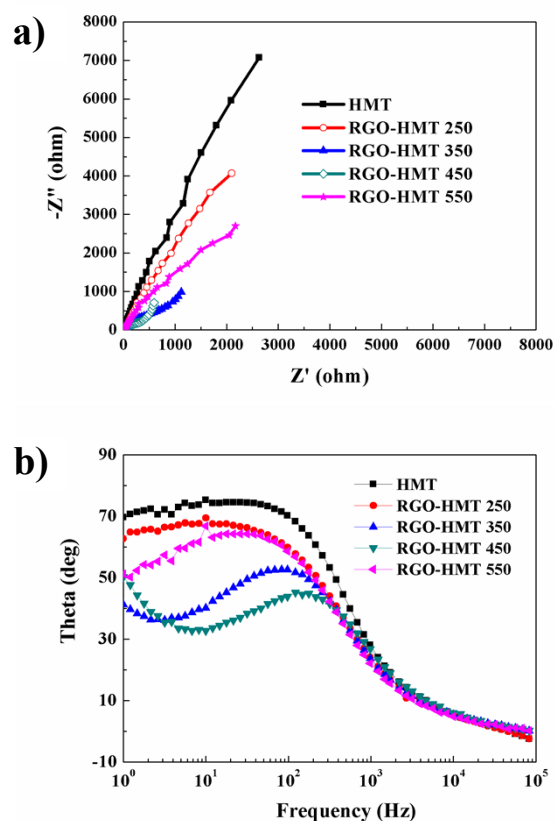
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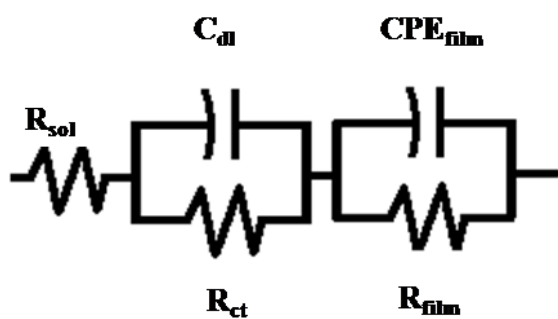


10 Fig. S1 The i-t curves of RGO-HMT 650 were studied at different bias voltage of 0 V, 0.5 V and -0.5 V (vs. Ag/AgCl) under visible light irradiation.



15 Fig.S2 Full range of Nyquist plots (a) and Bode plots (b) of HMT and RGO-HMT samples with different temperature in Nyquist plots in 0.5 M NaSO₄ under dark at a dc potential of 0 V vs. Ag/AgCl with an ac potential of 5 mV between frequency range from 100 kHz to 1 Hz.

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5 Fig. S3 Equivalent circuit model. R_{sol} is the solution resistance; R_{film} and CPE_{film} are the resistance and capacitance of the thin-film photoelectrode, respectively; R_{ct} is charge transfer resistance; and C_{dl} is double layer capacitance.

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