

Supporting Information

Waveband-Dependent Photochemical Processing of Graphene Oxide in Fabricating Reduced Graphene Oxide Film and Graphene Oxide-Ag Nanoparticles Film

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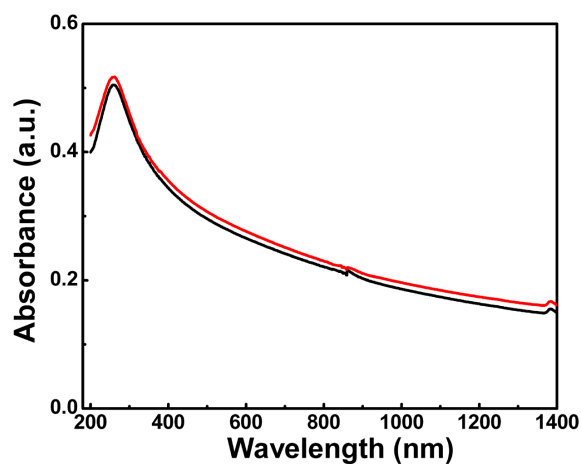


Fig. S1 UV-visible absorption spectra of GO film treated with band 1 irradiation for 16 h (black line) and the same sample treated with band 1 irradiation again in AgNO_3 solution (red line). The two curves are almost same in shape, indicating no photo-reduction of Ag^+ occurred on the already photo-reduced GO films.

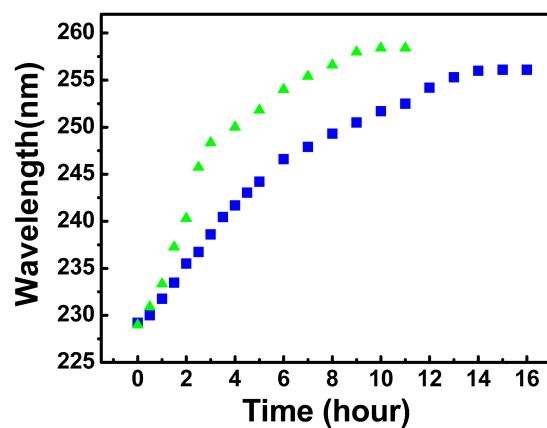


Fig. S2 Position shift of the absorption peak of GO films at 227nm as a function of irradiation time under the irradiation from band 1 (■square) in air and (▲) in ethanol atmosphere. The data show that ethanol atmosphere can accelerate the photo-reduction process of GO film.