

Supporting Information

Controlled Synthesis of $Zn_xCd_{1-x}S$ Nanorods and Their Composite with RGO for High-Performance Visible-Light Photocatalysis

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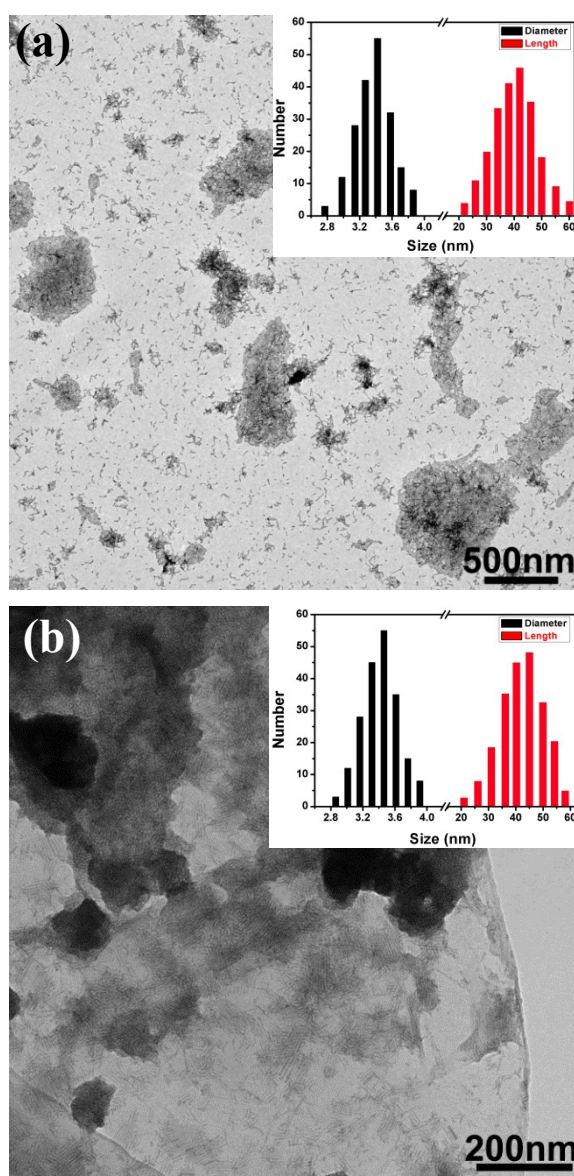


Fig. S1 Low magnification TEM images of $Zn_{0.5}Cd_{0.5}S$ nanorods and $Zn_{0.5}Cd_{0.5}S/2\%RGO$ nanocomposites to show the morphology change of $Zn_{0.5}Cd_{0.5}S$ nanorods after forming composite with RGO. (Inset: corresponding diameter and length distribution of $Zn_{0.5}Cd_{0.5}S$ nanorods, which was determined by measuring more than 200 particles).

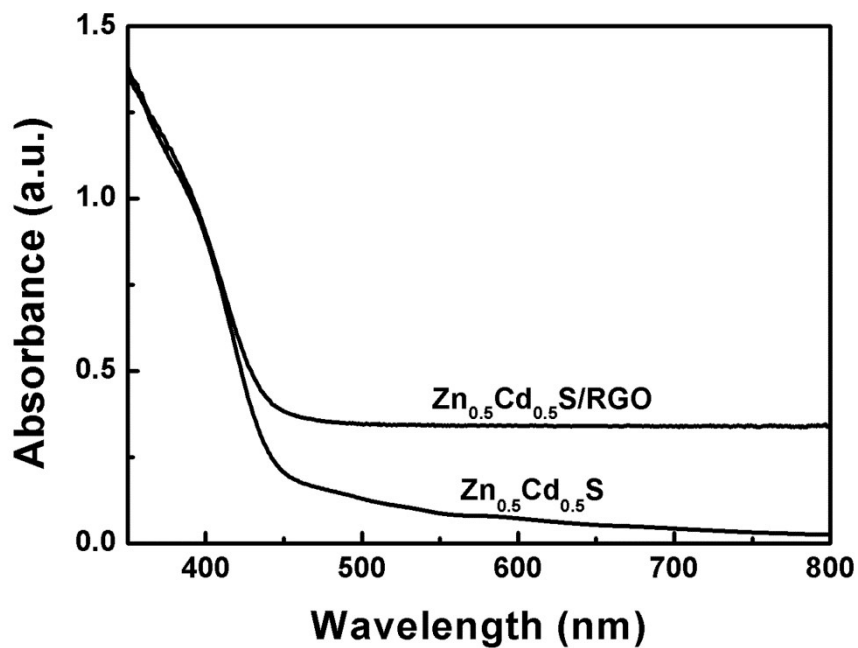


Fig. S2 UV-Vis absorbance spectra of Zn_{0.5}Cd_{0.5}S nanorods and Zn_{0.5}Cd_{0.5}S/2 wt% RGO nanocomposites.

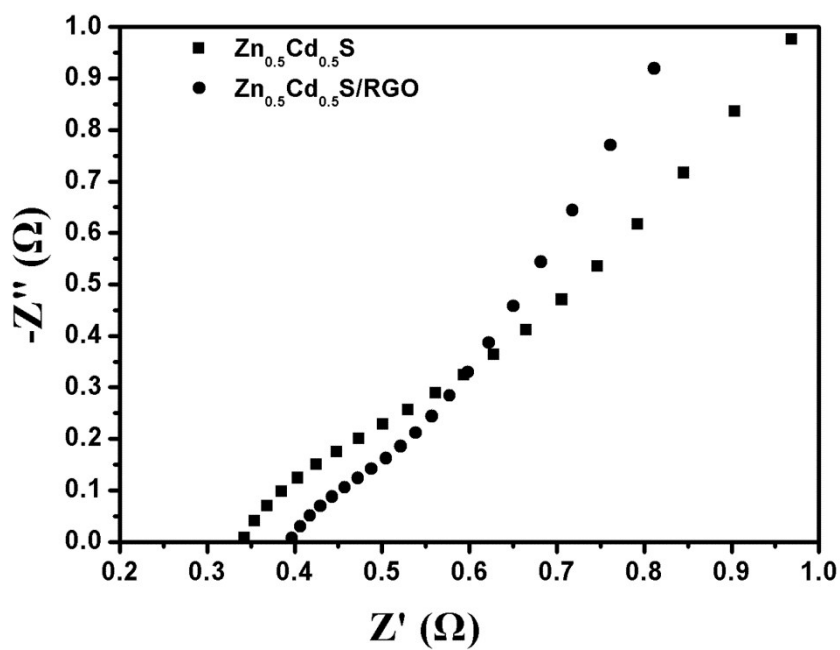


Fig. S3 Nyquist plots of Zn_{0.5}Cd_{0.5}S nanorods and Zn_{0.5}Cd_{0.5}S/2 wt% RGO nanocomposites.