Supporting Information for:

Investigation of Plasmonic Effect in Air-processed PbS/CdS Core-shell Quantum Dot based Solar Cells

Belete Atomsa Gonfa\textsuperscript{1}, Mee Rahn Kim\textsuperscript{1}, Peng Zheng\textsuperscript{2}, Scott Cushing\textsuperscript{2}, Qiquan Qiao\textsuperscript{3}, Nianqiang Wu\textsuperscript{2,*}, My Ali El Khakani\textsuperscript{1}, and Dongling Ma\textsuperscript{1,*}

\textsuperscript{1}Institut National de la Recherche Scientifique (INRS), Centre-Énergie, Matériaux et Télécommunications, 1650 Boulevard Lionel-Boulet, Varennes, QC, Canada J3X 1S2
\textsuperscript{2}Department of Mechanical and Aerospace Engineering, West Virginia University, Morgantown, WV 26506-6106, USA
\textsuperscript{3}Department of Electrical Engineering, Center for Advanced Photovoltaics, South Dakota State University, Brookings, South Dakota 57007, USA.
Figure S1. SEM images of 450 nm long TiO$_2$ nanorod arrays grown on FTO substrate: (a) cross-sectional and (b) top view.
Figure S2. Visible-NIR extinction and PL emission spectra of PbS/CdS core-shell QDs suspension in toluene; inset: TEM image of PbS/CdS core-shell QDs.