Supporting Information for:

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

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

[1]Institut National de la Recherche Scientifique (INRS), Centre-Énergie, Matériaux et Télécommunications, 1650 Boulevard Lionel-Boulet, Varennes, QC, Canada J3X 1S2

[2]Department of Mechanical and Aerospace Engineering, West Virginia University, Morgantown, WV 26506-6106, USA

[3]Department of Electrical Engineering, Center for Advanced Photovoltaics, South Dakota State University, Brookings, South Dakota 57007, USA.

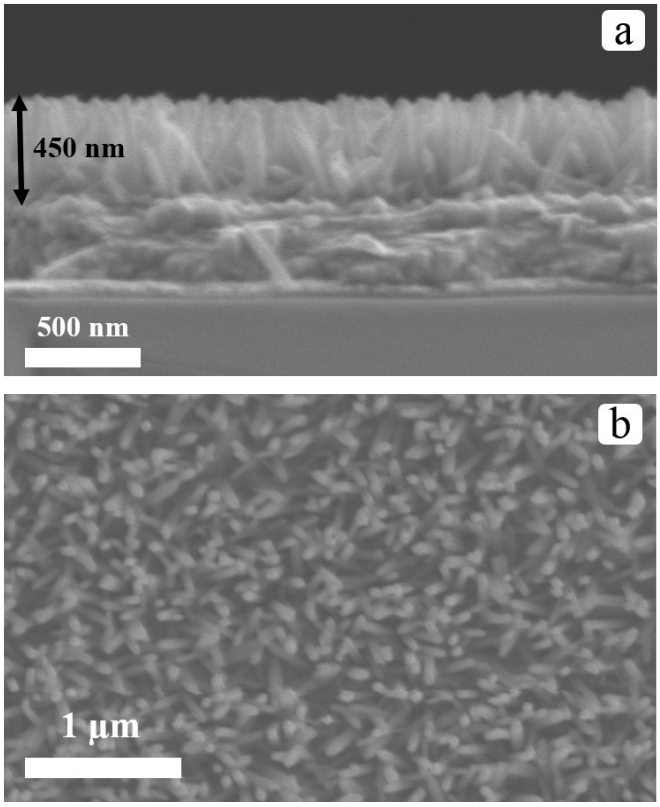

Figure S1. SEM images of 450 nm long TiO_2 nanorod arrays grown on FTO substrate: (a) cross-sectional and (b) top view.

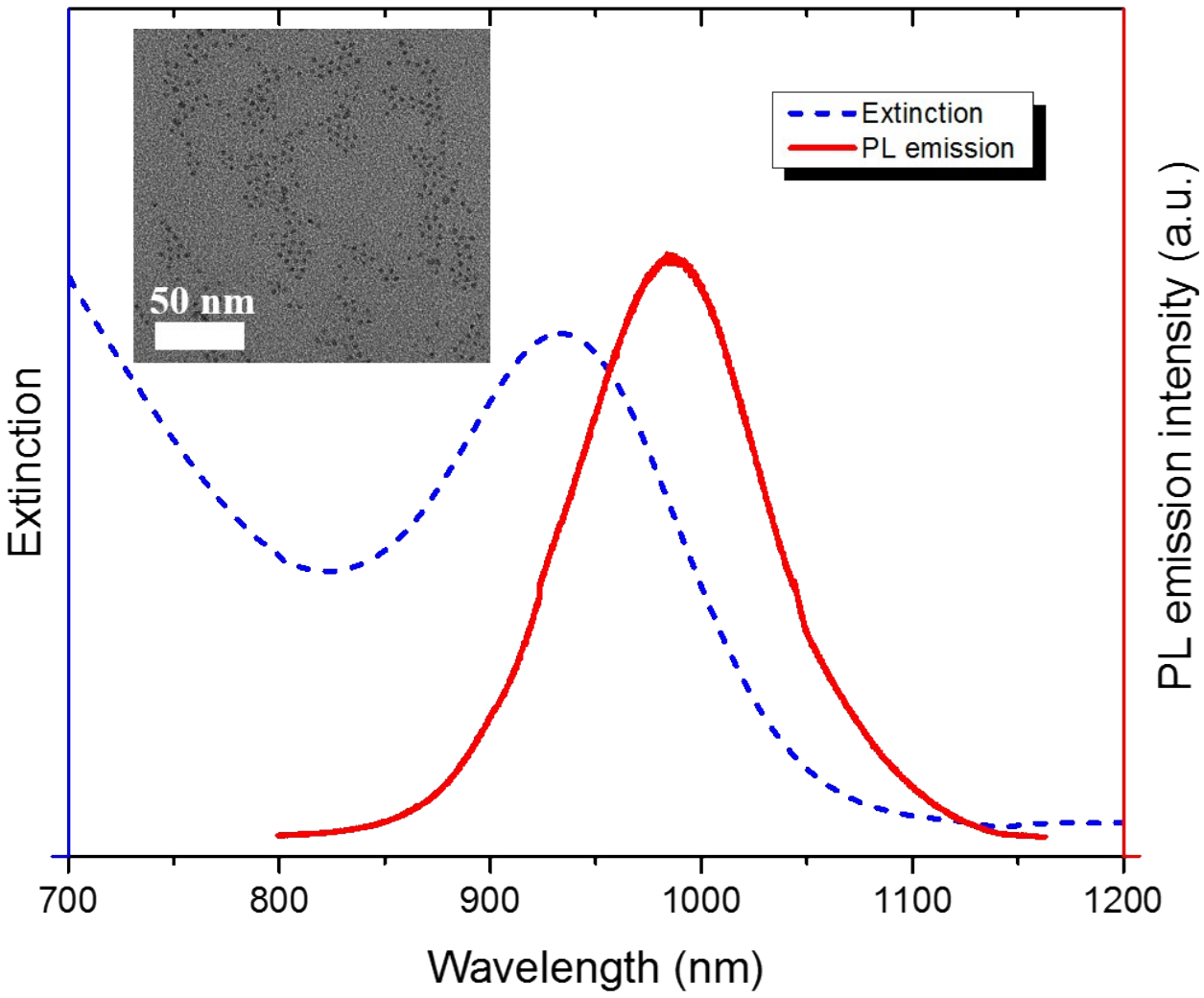

Figure S2. Visible-NIR extinction and PL emission spectra of PbS/CdS core-shell QDs suspension in toluene; inset: TEM image of PbS/CdS core-shell QDs.