

Supporting Information

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Bifacial dye-sensitized solar cells: A strategy to enhance overall efficiency based on transparent polyaniline electrode

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Figures S1-S6

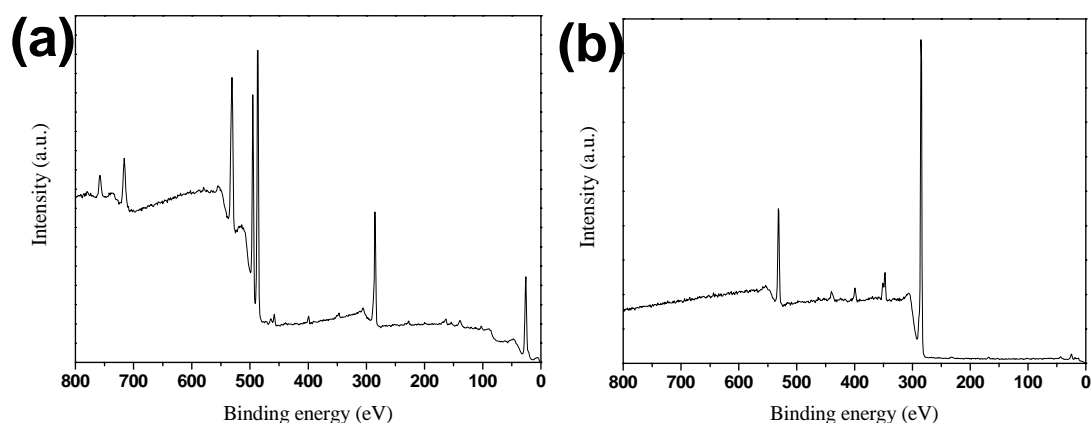


Figure S1 | XPS spectra for (a) bared FTO and (b) 4-ATP modified FTO substrates.

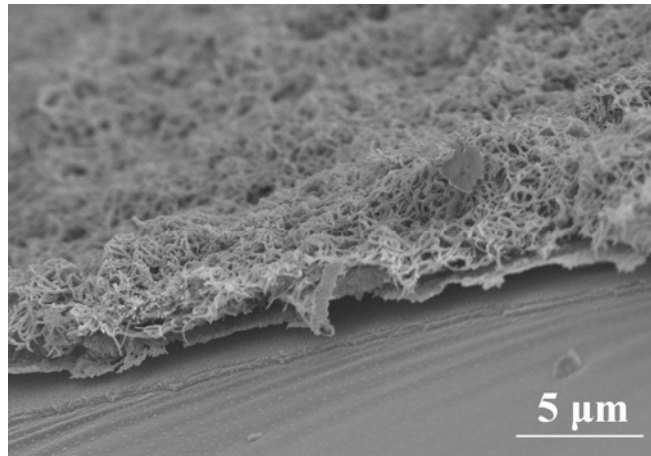


Figure S2 | Cross-sectional SEM image of PANI (ECD) on FTO glass substrate.

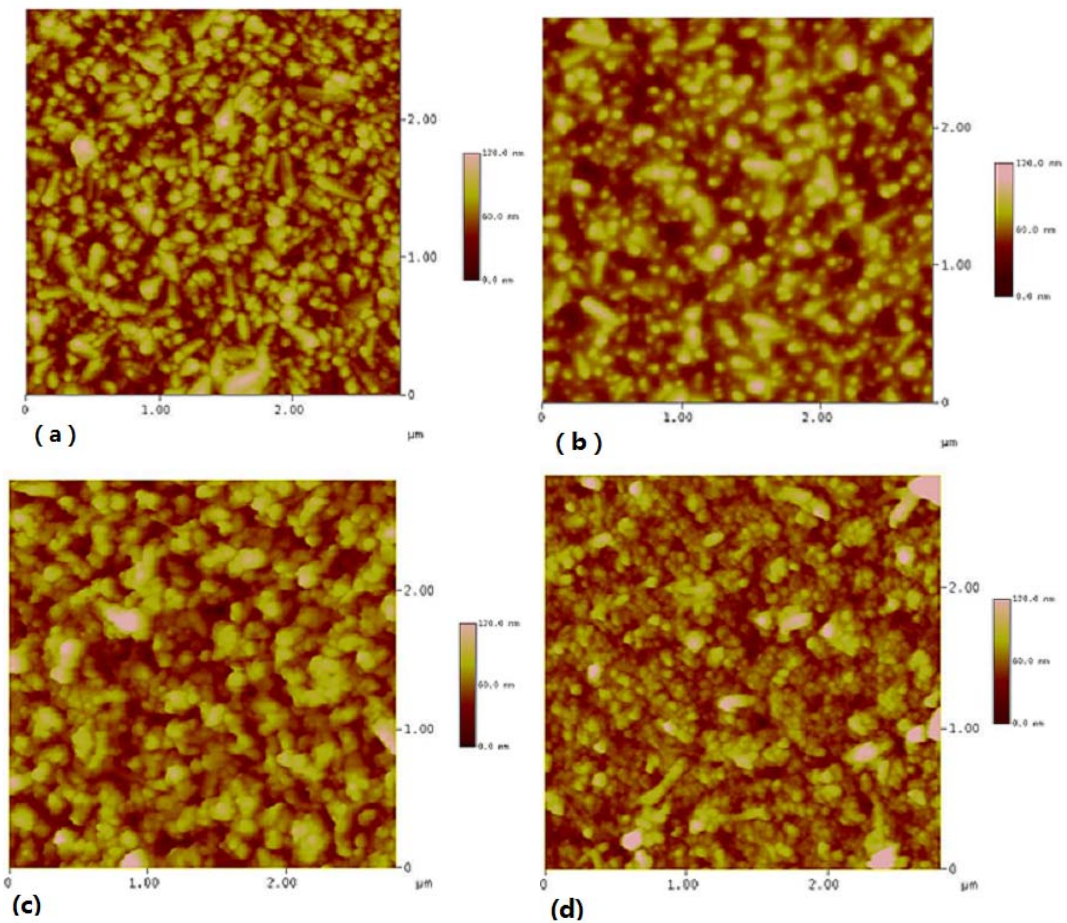


Figure S3 | AFM images of (a) bare FTO substrate, (b) 4-ATP/FTO, (c) PANI (CD) on FTO, (d) 4-ATP/PANI (CD) on FTO.

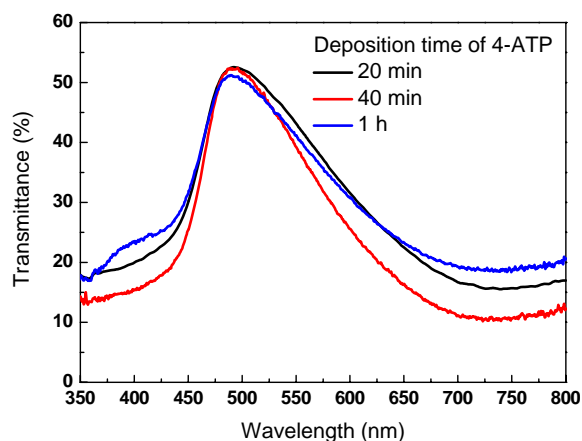


Figure S4 | UV-vis transmittance spectra of FTO supported 4-ATP/PANI (CD) electrode at various deposition time of 4-ATP. The deposition time of PANI is 5 h.

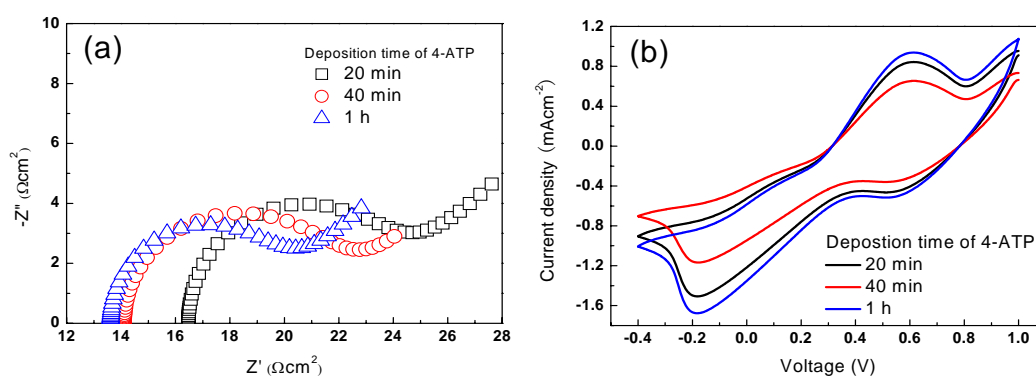


Figure S5 | (a) Nyquist plots and (b) cyclic voltammograms of 4-ATP/PANI (CD) electrodes at various deposition times of 4-ATP. The deposition time of PANI is 5 h. The Nyquist plots were obtained at open circuit voltage under irradiation of $100 \text{ mW}\cdot\text{cm}^{-2}$.

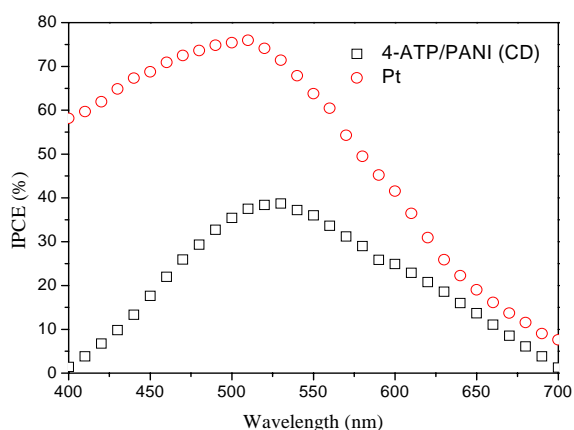


Figure S6 | IPCE curves of DSSCs from 4-ATP/PANI (CD) and Pt counter electrodes. The deposition time of PANI is 5 h.