Supporting Information

High Efficiency Solid-State Dye-Sensitized Solar Cells using Cobalt(II/III) Redox Mediator

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Figure S1. Nitrogen sorption isotherms of CCIC-30nm and Degussa P25 TiO$_2$ nanoparticles.
Figure S2. Absorbance spectra of the dye detached from sensitized photoanodes prepared using TNA, CCIC-30nm and P25 nanoparticles of same film thickness.

Figure S3. I-V curves of sensitized photoanode films prepared from P25.
**Figure S4.** SEM cross-section of the photoanode electrodes prepared from mesoporous TNA.

**Figure S5.** Photocurrent transient plots of sensitized photoanode films based on P25 nanoparticles measured under varying illumination intensities: 10.1%, 32.5% and 100% of AM 1.5 simulated light.
Figure S6. Performance stability testing of sensitized photoanode films prepared from nanoparticles (CCIC).