

SUPPLEMENTARY INFORMATION

## Co-Sensitized DSC: Dye selection criteria for device $V_{oc}$ and Efficiency

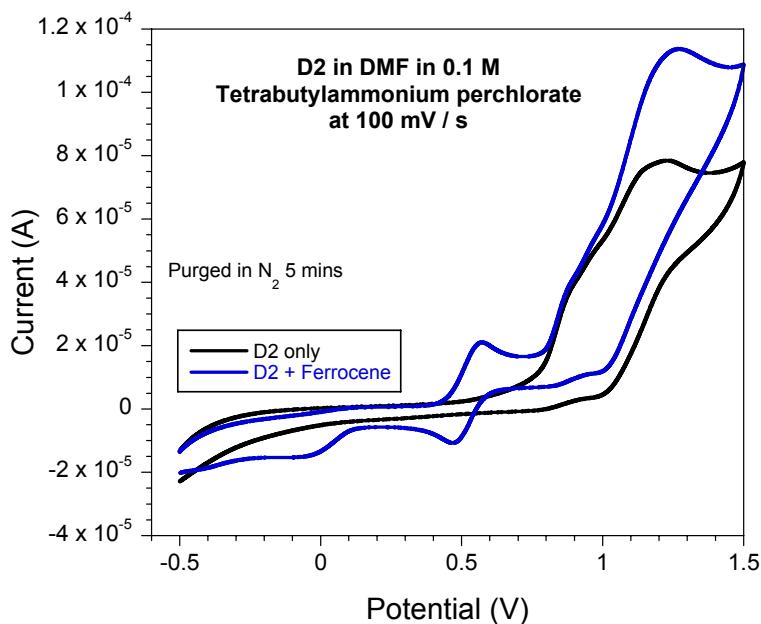
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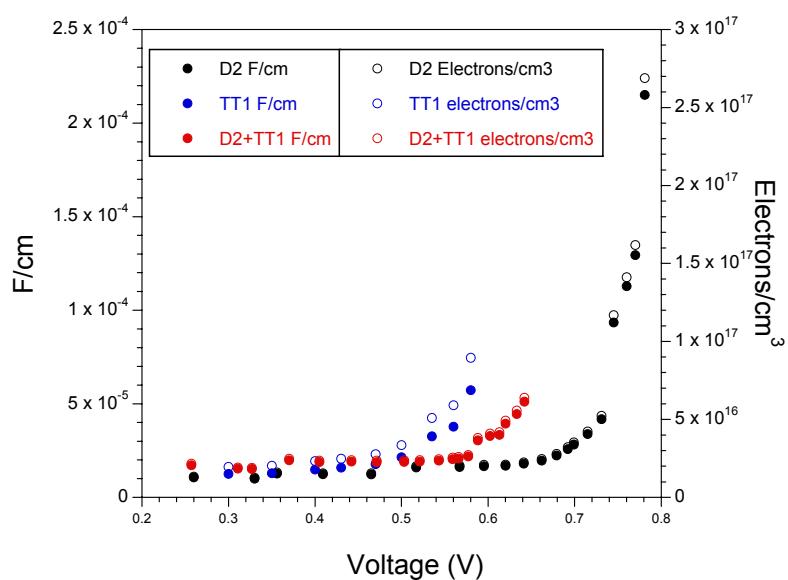
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**Fig. S1.** Cyclic voltammetry of **D2**. The reference used was the AgNO<sub>3</sub> (0.011M) / LiClO<sub>4</sub> (0.1M) electrode (therefore add 0.3 V to convert to NHE). We observe irreversible oxidation in the above CV and 1V is taken for the onset of oxidation processes.



**Fig. S2.** Charge extraction data of **D2**, **TT1** and **D2+TT1** DSC devices. Charge is expressed both in capacitance (F/cm) and in electrons per cm<sup>3</sup>.