## Investigation of Carbon Nanotube Webs as Novel Material for Counter Electrodes in a New Organic Electrolyte Based Dye Sensitized Solar Cell

Dalal Noureldine,<sup>a</sup> Tharallah Shoker,<sup>a</sup> Mustafa Musameh<sup>b</sup> and Tarek H. Ghaddar<sup>a</sup>\*

## **Supporting Information**



**Figure S1**: Relative absorption spectra of 1.0 M 1-methyl-3-propyl imidazolium iodide and .15 M  $I_2$  in acetonitrile (solid-black), and 1.0 M T and 0.15 M DT in acetonitrile (dotted-red).



**Figure S2:** Cyclic voltammogram of T/DT electrolyte in acetonitrile with 0.1 M TBAPF<sub>6</sub>.



**Figure S2:** Photograph of a drawn film of MWCNT webs from an MWCT forest grown on a ceramic substrate.



**Figure S3:** Photograph of a counter electrode prepared with 20 layers of MWCNT webs on an FTO substrate.



**Figure S4:** Photocurrent-voltage (*J-V*) curves of device E with 20 layers of MWCNT webs as the counter electrode (solid-black), and a device made with commercial MWCNT. Measured under 100 mW.cm<sup>-2</sup> simulated AM1.5 spectrum with an active area =  $0.126 \text{ cm}^2$  and a spacer thickness  $l = 60 \text{ }\mu\text{m}$ .