electronic materials

MDPI

Supplementary Information of

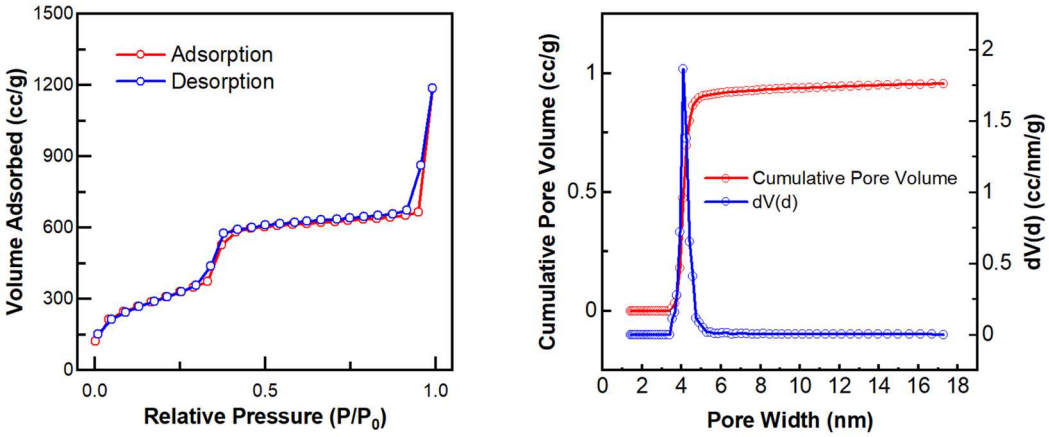
Article

Enhancing light harvesting in Dye-Sensitized Solar Cells through Mesoporous Silica Nanoparticle-mediated Diffuse Scattering Back Reflectors

Jeffrie Fina [1], Navdeep Kaur [1], Chen-Yu Chang [1], Cheng-Yu Lai [1], and Daniela R. Radu[1]*

[1] Department of Mechanical and Materials Engineering, Florida International University, Florida 33174, United States

* Correspondence: e-mail@e-mail.com; Tel.: (optional; include country code; if there are multiple corresponding authors, add author initials)



(**a**) (**b**)

Fig S1. (**a**) Nitrogen adsorption–desorption isotherms (**b**) pore size distribution calculated by the DFT method

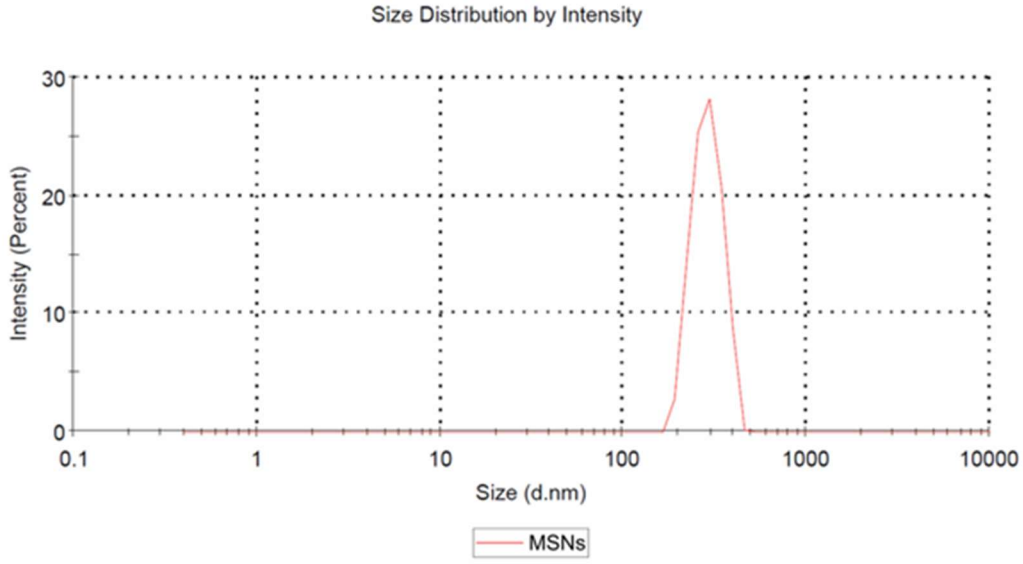


Fig S2. DLS distribution curve of MSNs dispersed in ethanol.

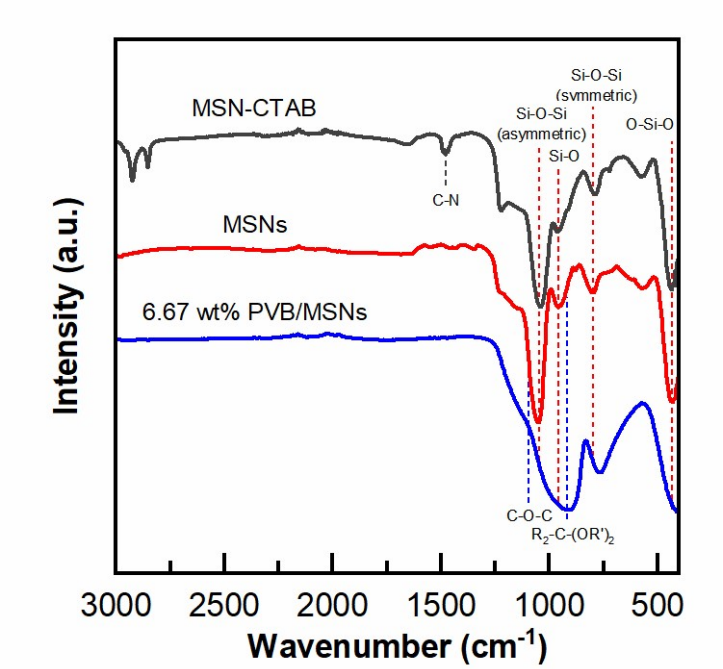


Fig S3. FTIR spectra of MSN with CTAB surfactant (as synthesized), MSNs (after acid wash), and 6.67 wt% PVB/MSN. [36, 37]

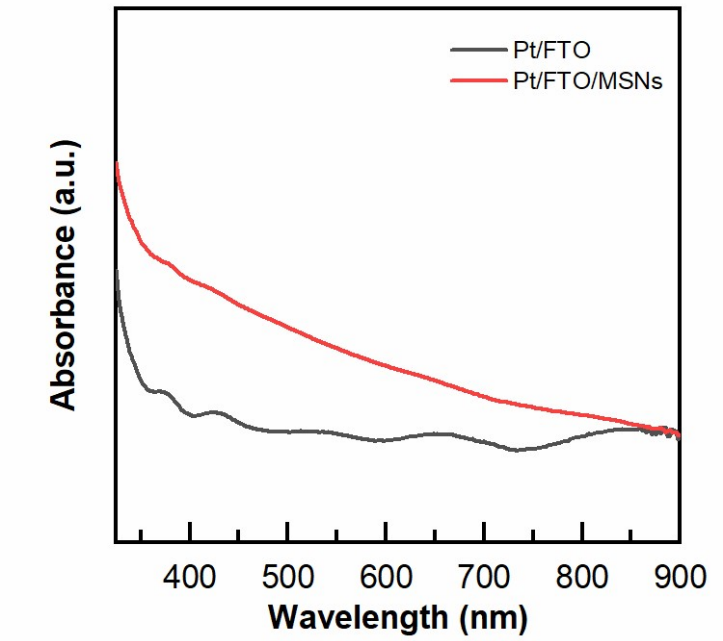


Fig S4. UV-Visible absorbance spectrum of platinum counter-electrodes with and without MSNs reflector film.