

## **Supporting Information**

### **Synthesis of long TiO<sub>2</sub> nanotube arrays with a small diameter for efficient dye-sensitized solar cells**

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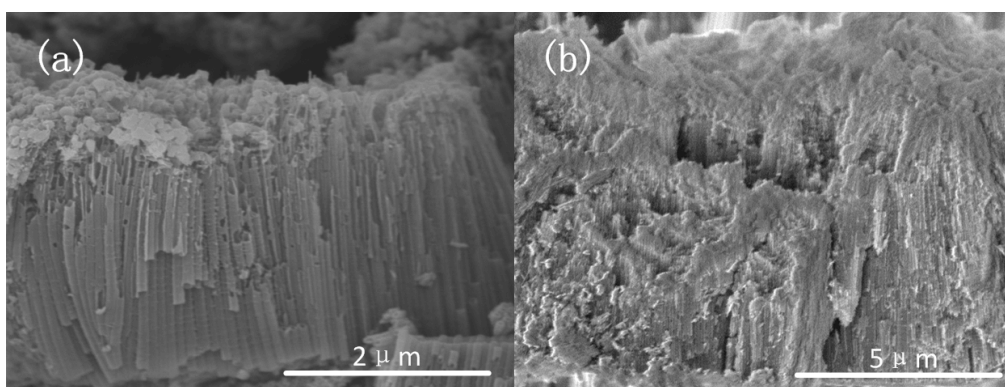


Fig. S11. Cross-sectional SEM images showing the TiO<sub>2</sub> nanotube arrays under 20 V and 60 °C, for the different reaction time: (a) 1 h and (b) 6 h.

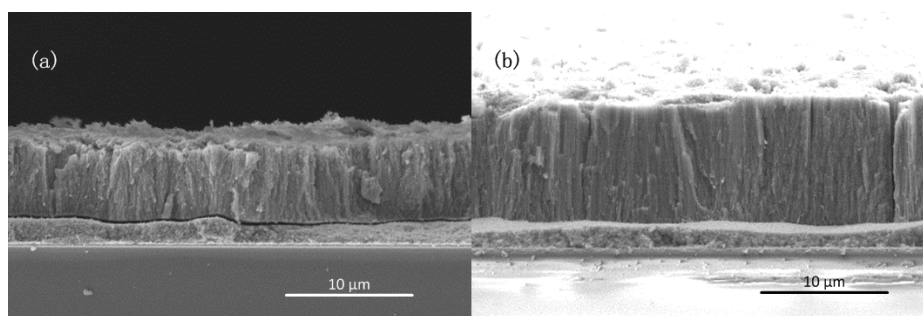


Fig. S12. Cross-sectional SEM images of the DSSCs' photoanodes with the approximately same TiO<sub>2</sub> nanoparticles layer thickness but different tube length: (a) 20V, 50 °C, for 4 h and (b) 20V, 50 °C, for 5 h.

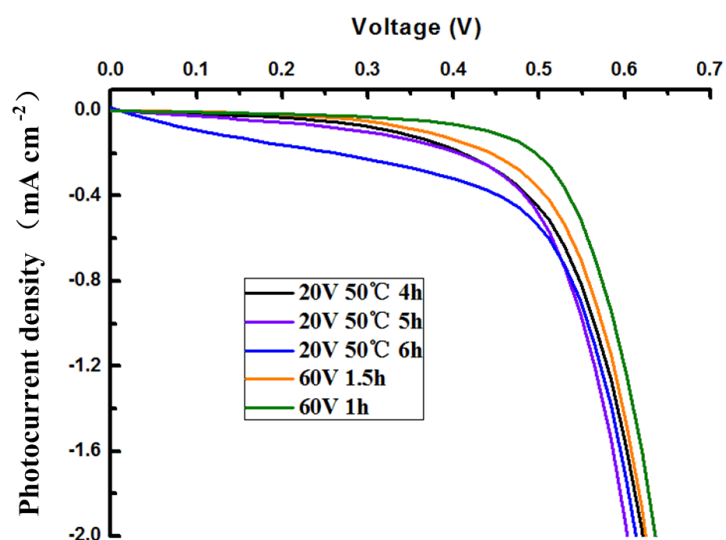


Fig. S13. The current density data of the DSSCs samples under no illumination.