Electronic supplementary information

High Surface Area Electrospun Prickle-like Hierarchical Anatase TiO\textsubscript{2} Nanofibers for Dye-Sensitized Solar Cell Photoanodes

Yu Pin Lin\textsuperscript{1}, Sih Yin Lin \textsuperscript{1}, Yuan Ching Lee\textsuperscript{1}, Yui Whei Chen-Yang\textsuperscript{1,2,3*}

\textsuperscript{1}Department of Chemistry, \textsuperscript{2}Center for Nanotechnology and \textsuperscript{3}Institute of Biomedical Technology

Chung Yuan Christian University,

200 Chung Pei Road, Chung Li, Taiwan 32023, R.O.C.

*Corresponding author. Tel.: +886-3-2653317; Fax: +886-3-2653399.

E-mail address: yuiwhei@cycu.edu.tw (Professor: Y. W. Chen-Yang).
**Fig. S1** FE-SEM surface images and magnification of the TiO$_2$ nanofibers obtained with 12 h hydrothermal reaction under various temperatures (a, b) 90 °C, (c, d) 110 °C, (e, f) 130 °C, (g, h) 150 °C (HTF) and (i, j) 170 °C.
Fig. S2 FE-SEM cross-section images of photoanodes in (a) HTF-D and (b) BHTF-D.

Fig. S3 $J-V$ curves of the bi-layer photoanode-based DSSCs fabricated with the TiO$_2$ nanofibers obtained with 12 h hydrothermal reaction under various temperatures.