Supporting information:

A facile method to prepare SnO$_2$ nanotubes for use in efficient SnO$_2$–TiO$_2$ core–shell dye-sensitized solar cells

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Fig. S1 The high resolution transmission electron microscopy (HRTEM) images of the samples fabricated from solution A (a~d) and solution B (e~f) annealed at different temperatures (a and e) 300 °C; (b and f) 350 °C; (c and g) 425 °C; (d and h) 450 °C.
**Fig. S2** Thermogravimetric analysis (TGA) of PVP/SnCl₂·2H₂O composite nanofibers (red solid line) and pure PVP nanofibers (black dashed line).
Fig. S3 TEM image of the nanotubes prepared by electrospinning from solution A followed by sintering at 500 °C for 2 h with a higher heating rate of 10 °C min⁻¹.