

Supporting information:

**A facile method to prepare SnO₂ nanotubes for use in
efficient SnO₂-TiO₂ core-shell dye-sensitized solar cells**

Caitian Gao, Xiaodong Li, Bingan Lu, Lulu Chen, Youqing Wang, Feng Teng,
Jiangtao Wang, Zhenxing Zhang, Xiaojun Pan and Erqing Xie*

School of Physical Science and Technology, Lanzhou University, Lanzhou 730000,

Gansu, People's Republic of China

E-mail: xieeq@lzu.edu.cn (E. Xie), caitiangao10@163.com (C. Gao)

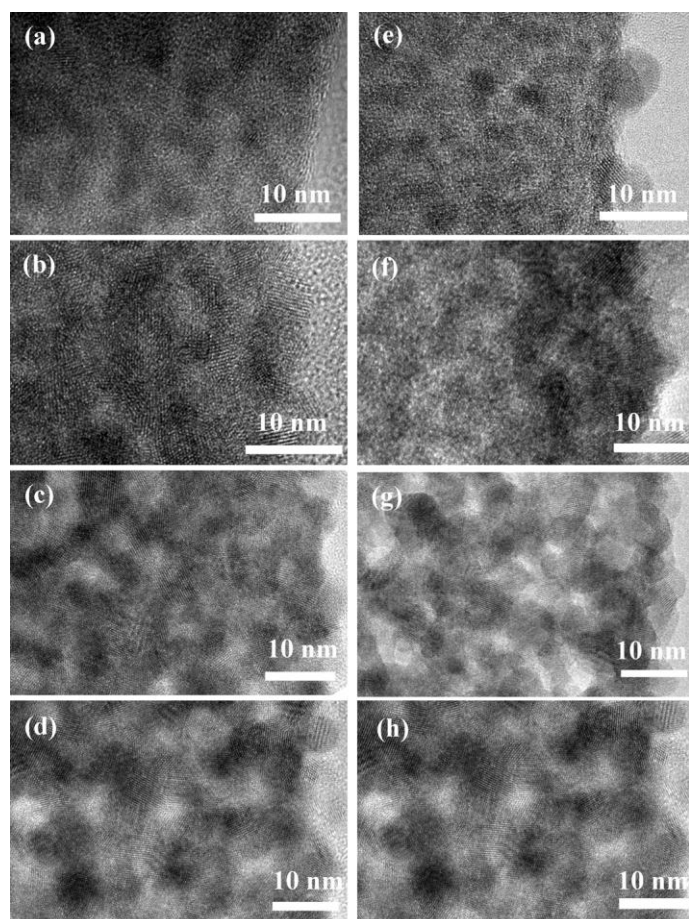


Fig. S1 The high resolution transmission electron microscopy (HRTEM) images of the samples fabricated from solution A (a~d) and solution B (e~f) annealed at different temperatures (a and e) 300 °C ; (b and f) 350 °C ; (c and g) 425 °C ; (d and h) 450 °C.

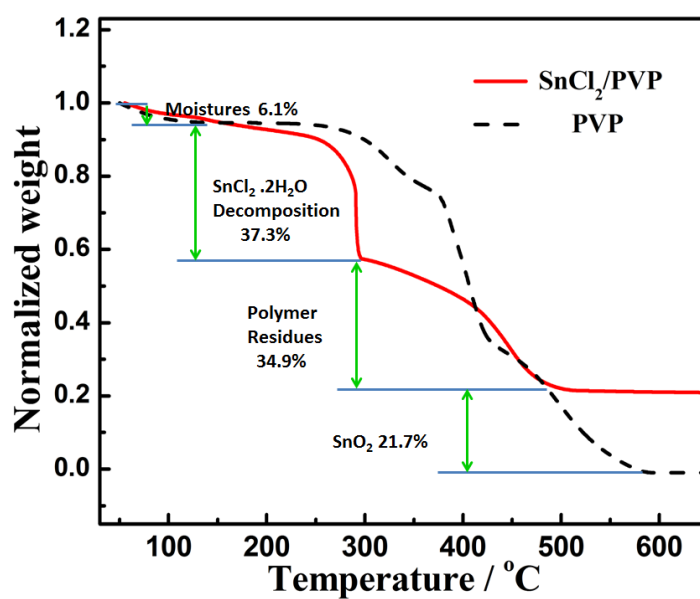


Fig. S2 Thermogravimetric analysis (TGA) of PVP/SnCl₂·2H₂O composite nanofibers (red solid line) and pure PVP nanofibers (black dashed line).

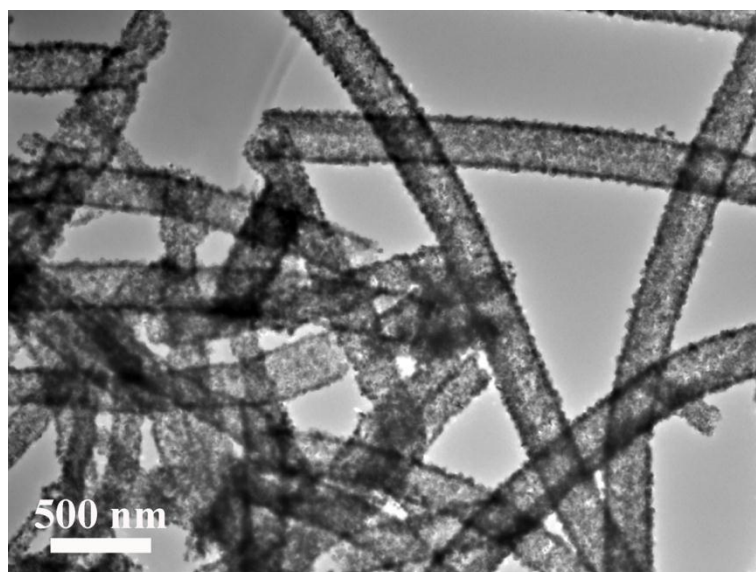


Fig. S3 TEM image of the nanotubes prepared by electrospinning from solution A followed by sintering at 500 °C for 2 h with a higher heating rate of 10 °C min⁻¹.