

Supporting Information

Hybrid TiO₂-SnO₂ Nanotube Arrays for Dye-Sensitized Solar Cells

Umang V. Desai, Chengkun Xu, Jiamin Wu and Di Gao*

Department of Chemical and Petroleum Engineering, University of Pittsburgh, Pittsburgh, PA

15261, USA

E-mail: gaod@pitt.edu

Table S1: Photovoltaic performance data of DSCs based on different electrodes used for open-circuit voltage decay study experiments. (i) TiO₂ nanoparticles, (ii) ZnO nanowires, (iii) TiO₂ nanotubes, (iv) Bare SnO₂ nanotubes, (v) TiO₂-coated SnO₂ nanotubes

	TiO₂ Nanoparticles	ZnO Nanowires	TiO₂ Nanotubes	Bare SnO₂ Nanotubes	TiO₂- coated SnO₂ nanotubes
<i>J</i>_{sc} (mA/cm²)	12.8	5.20	6.50	8.05	10.08
<i>V</i>_{oc} (V)	0.82	0.56	0.76	0.50	0.70
<i>ff</i>	0.66	0.36	0.60	0.28	0.50
<i>η</i> (%)	6.93	1.05	2.96	1.13	3.53

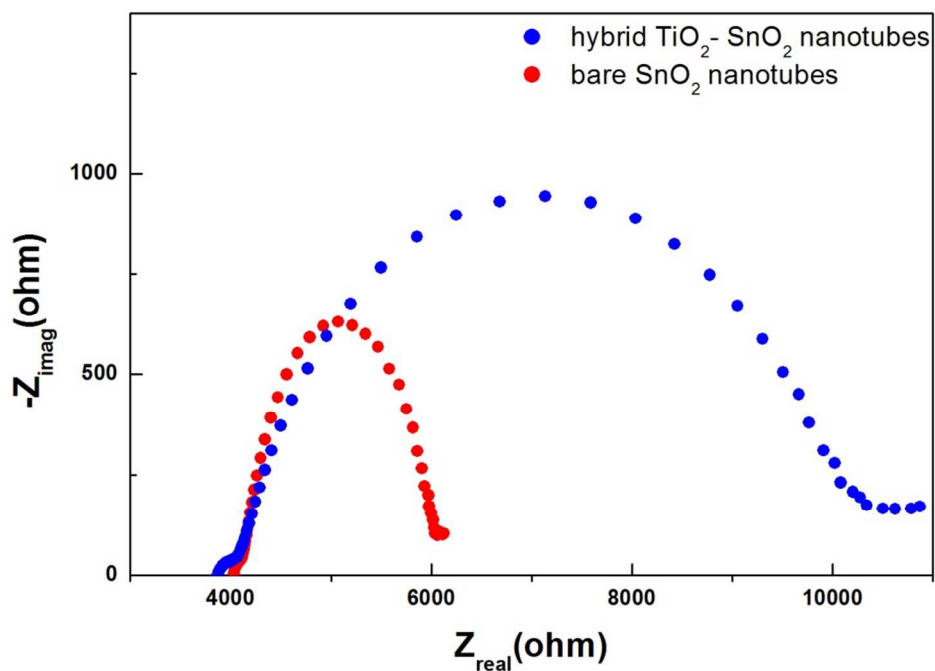


Figure S1: Electrochemical impedance spectroscopy (EIS) for DSCs based on (i) hybrid TiO_2 - SnO_2 nanotubes and (ii) bare SnO_2 nanotube arrays under dark conditions

Complete Author List for Reference [29]

29. Lee, S.; Cho, I.-S.; Lee, J. H.; Kim, D. H.; Kim, D. W.; Kim, J. Y.; Shin, H.; Lee, J.-K.; Jung, H. S.; Park, N.-G.; Kim, K.; Ko, M. J.; Hong, K. S. *Chem. Mater.* 2010, 22, 1958-1965.