

## Electronic Supplementary Information

for *New Journal of Chemistry*

### Bilayer TiO<sub>2</sub> photoanode consisting of nanowire-nanoparticle bottom layer and spherical voids scattering layer for dye-sensitized solar cells

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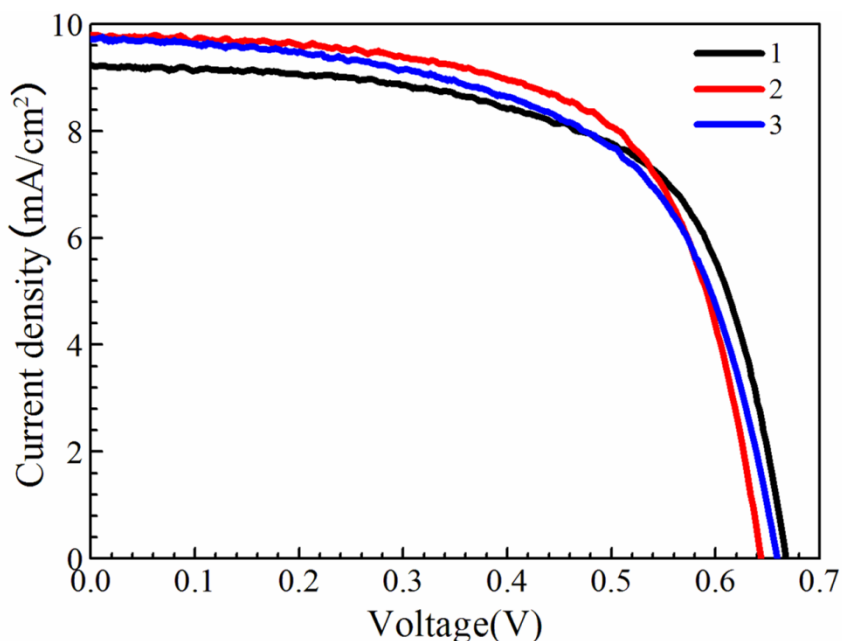


Fig. S1. J-V characteristics of three DSSCs based on TiO<sub>2</sub> NW-NP/SVL-30min photoanode under AM 1.5G solar simulator illumination.

Table 1 Photovoltaic parameters of three DSSCs based on TiO<sub>2</sub> NW-NP/SVL-30min photoanode under AM 1.5G solar simulator illumination.

Sample	V <sub>oc</sub> /mV	J <sub>sc</sub> /mA cm <sup>-2</sup>	FF/%	η/%
1	667	9.22	63.9	3.94
2	644	9.79	64.5	4.07
3	659	9.72	60.6	3.87
Average	657	9.58	63.0	3.96