<SUPPORTING INFORMATION>

Superior Photoelectrodes for Solid-state Dye-sensitized Solar Cells Using Amphiphilic TiO$_2$

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Supporting Information Material

Figure S1. TEM images of amorphous titania prepared by hydrothermal synthesis at (A) 80 °C for 16 h and (B) 160 ° for 48 h.
**Figure S2.** (A) Schematic illustration of ss-DSSC fabrication. (B) SEM image of TiO$_2$-NP-based photoelectrode. (C) SEM image of TiO$_2$-NS-based photoelectrode (laminated).
Figure S3. (A) Representative electrical equivalent circuit of DSSCs. (B) Ideal ESI plot of a DSSC with the real parts of the impedances $R_0$, $R_1$, $R_2$, and $R_3$. 
Figure S4. *J*-*V* characteristics of the ss-DSSC-P25 under the conditions of simulated global AM 1.5 solar radiation at 100 mW·cm⁻².