

Supporting Information

for New Journal of Chemistry

Efficiency enhanced rutile TiO₂ nanowire solar cells based on Sb₂S₃ absorber and CuI hole conductor

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Fig. S1. Diffuse reflectance spectra of TiO₂ NW/Sb₂S₃ films with different chemical bath deposition time. Inset shows the corresponding digital photographs of TiO₂ NW/Sb₂S₃ films.

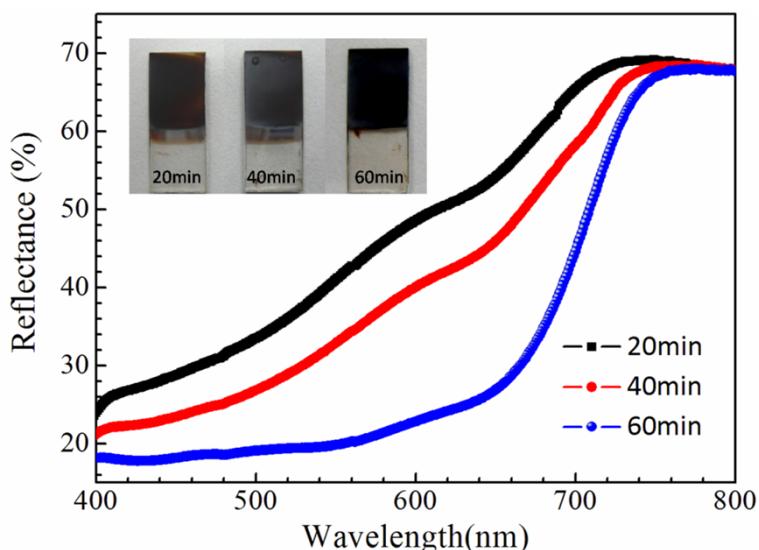


Fig. S2. IPCE characteristics of TiO₂/Sb₂S₃/CuI-drop coating/Au devices with different deposition time of Sb₂S₃ layer.

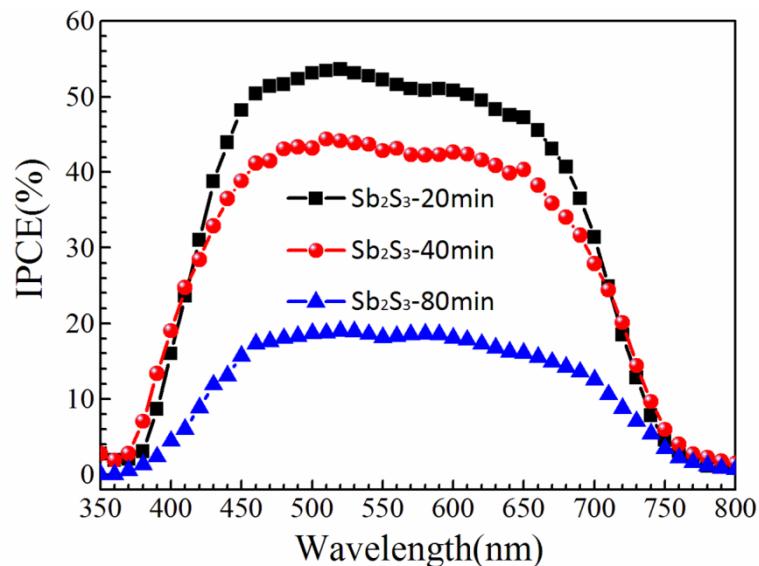


Fig. S3. J-V characteristics of two typical TiO₂ NW solar cells based on TiO₂/N719/electrolyte/Pt and TiO₂/N719/CuI-spray/Au structures under AM 1.5G solar simulator illumination.

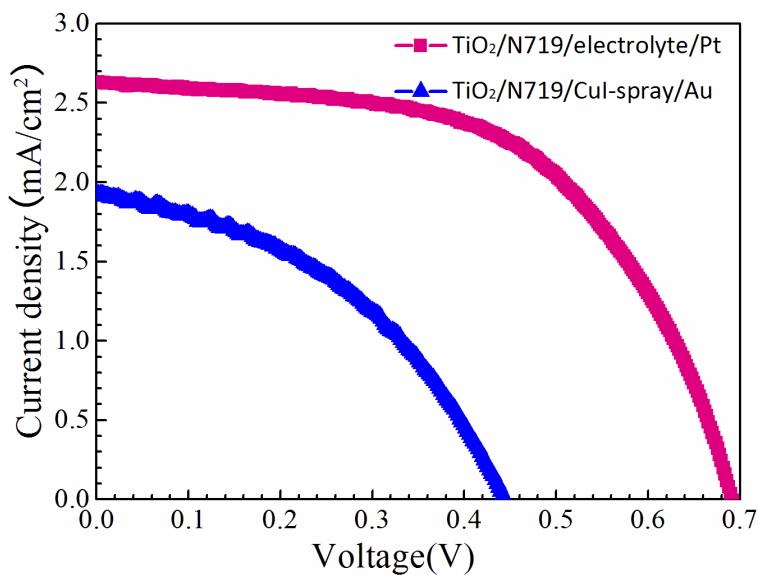


Table S1 Summary of device parameters under AM 1.5G solar simulator illumination.

Cell Type	V _{o_c} /mV	J _{s_c} /mA cm ⁻²	FF/%	η/%
TiO ₂ /N719/electrolyte/Pt	692	2.63	56.6	1.03
TiO ₂ /N719/CuI-spray/Au	444	1.93	47.9	0.41