

Electronic Supplementary Information

Performance improvement of Sb_2S_3 -sensitized solar cell by introducing hole buffer layer in cobalt complex electrolyte

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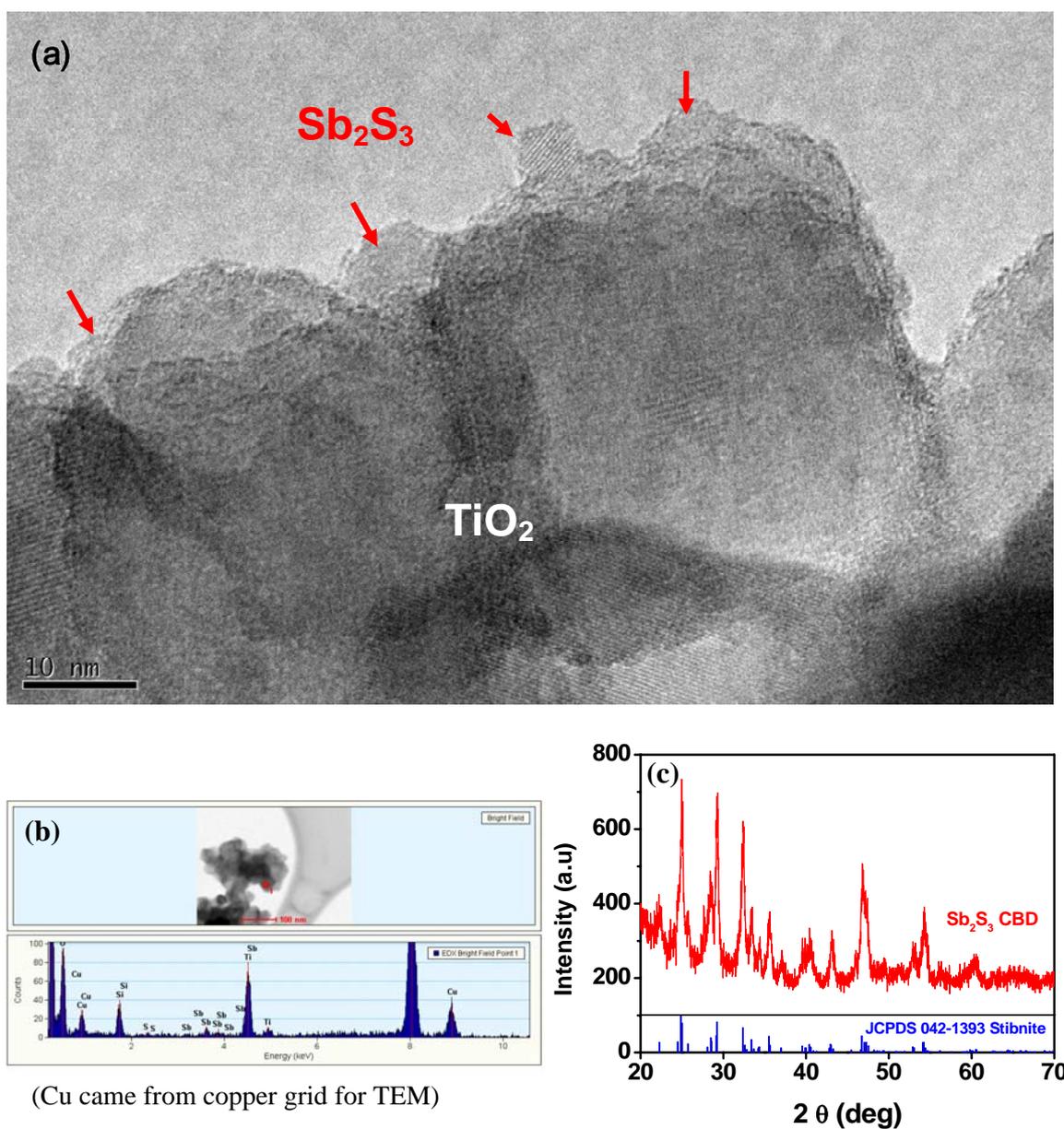


Fig. S1. (a) TEM image of Sb_2S_3 deposited on mp- TiO_2 , (b) EDX spectrum, and (c) XRD pattern of produced Sb_2S_3 .

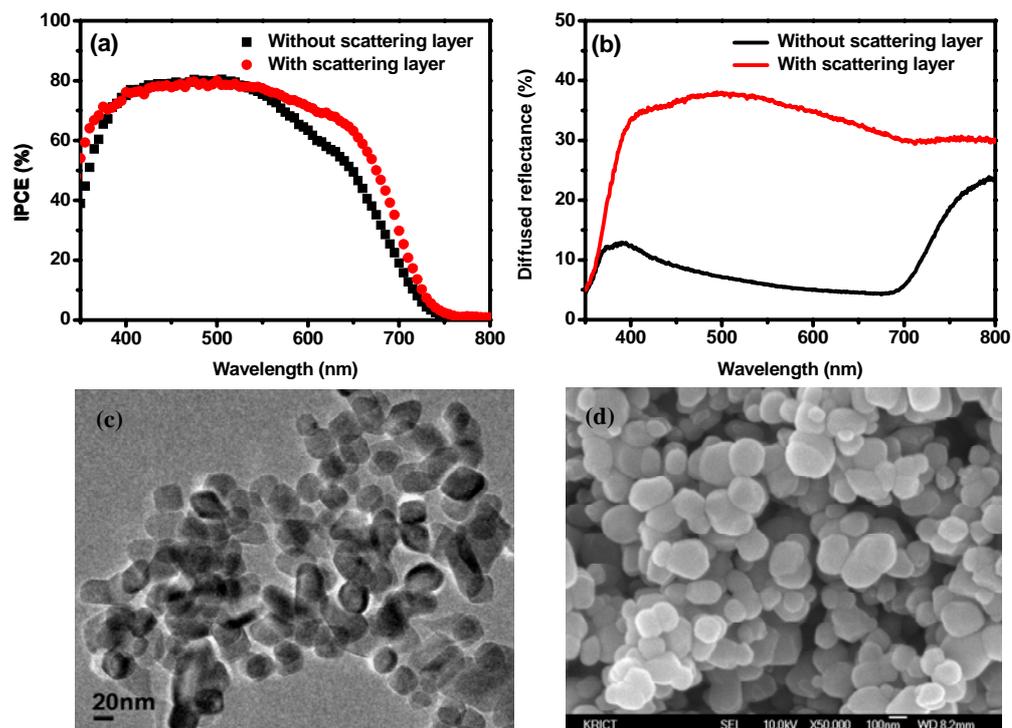


Fig. S2. (a) Incident photon-to-current conversion efficiency (IPCE) of Sb₂S₃ sensitized solar cells with and without scattering layer, (b) their diffused reflectance spectra, (c) TEM image of nm-TiO₂, and (d) SEM image of TiO₂ for scattering layer.

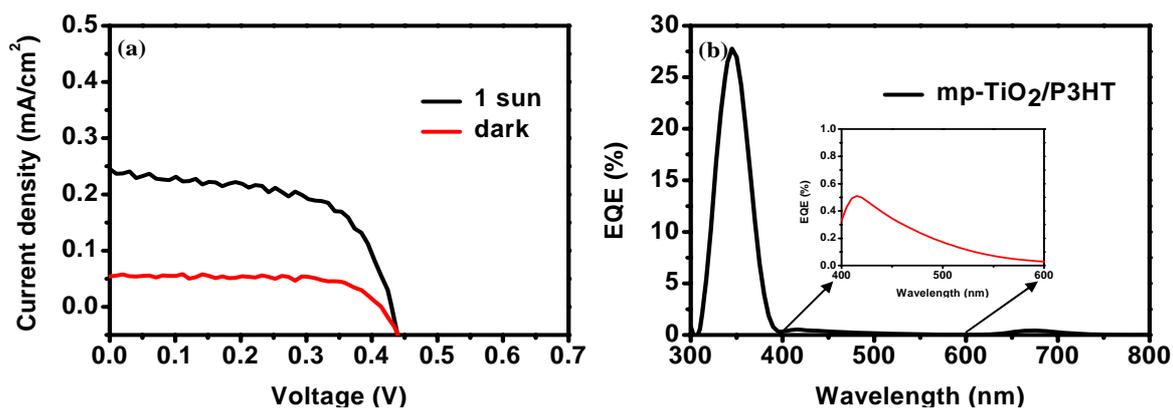


Fig. S3. (a) J-V curves of mp-TiO₂/P3HT (P3HT sensitized solar cell) device and (b) its corresponding EQE spectrum.

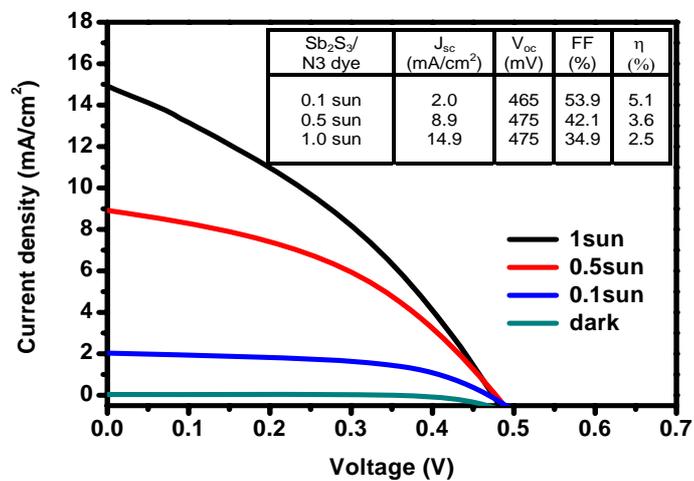


Fig. S4. J-V curves of Sb₂S₃/N3 dye sensitized solar cell.