Electronic Supplementary Material (ESI) for RSC Advances.

Supplementary information for

Integration of TiO_2 photoanode and perovskite solar cell for overall solar-driven water splitting

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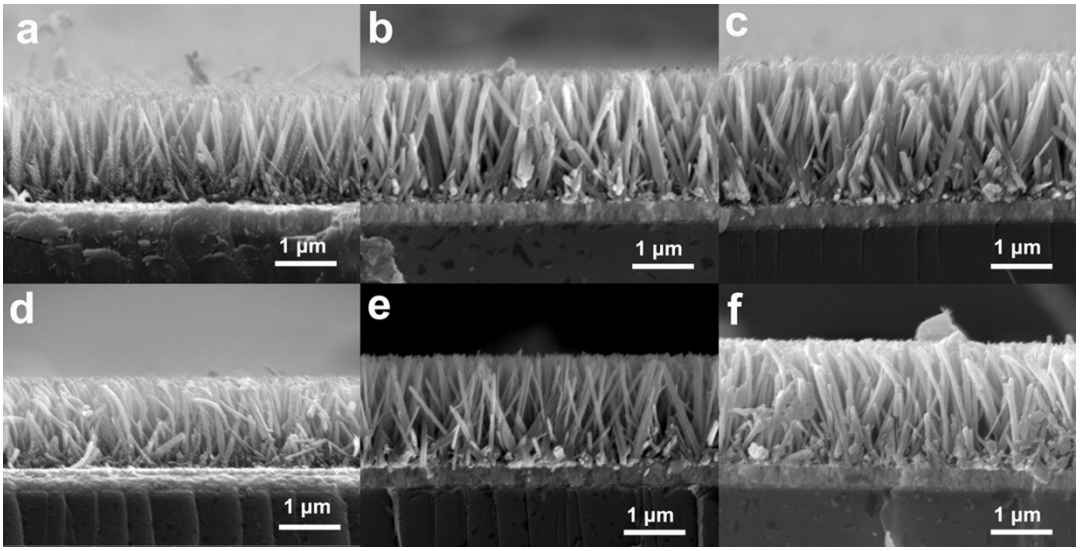

Fig. S1. (a)-(c) The morphology of pristine TiO_2 nanorods grown for 4, 5 and 6 hours, respectively. (d)-(f) The morphology of Sn-doped TiO_2 nanorods grown for 4, 5 and 6 hours, respectively.

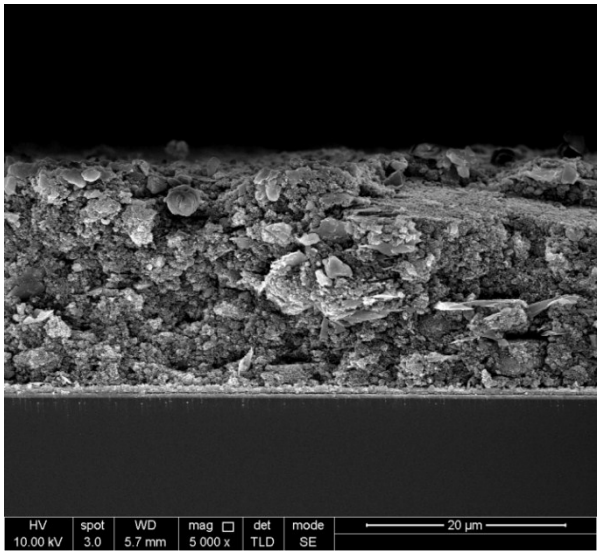

Fig. S2 Sectional view of the perovskite solar cell.

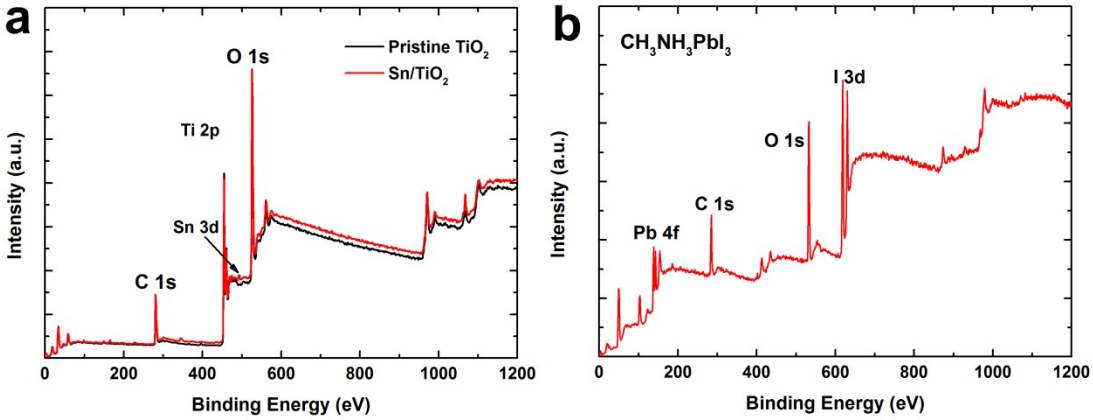

Fig. S3 XPS spectra collected from (a) TiO_2 photoanode and (b) perovskite solar cell without carbon layer.

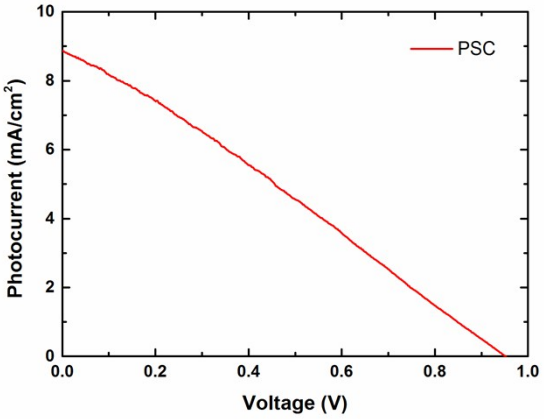

Fig. S4 IV characterization of the perovskite solar cell.

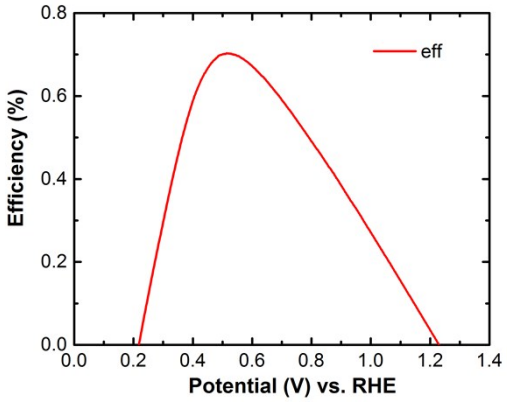

Fig. S5 The efficiency of photoanode calculated from the LSV curve obtained in three-electrode configuration.