Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A.

Supporting Information

Shao-Gang Li, Ke-Jian Jiang, Mei-Ju Su, Xue-Ping Cui, Jin-Hua Huang, Qian-Qian Zhang, Xue-Qin Zhou, Lian-Min Yang, Yan-Lin Song

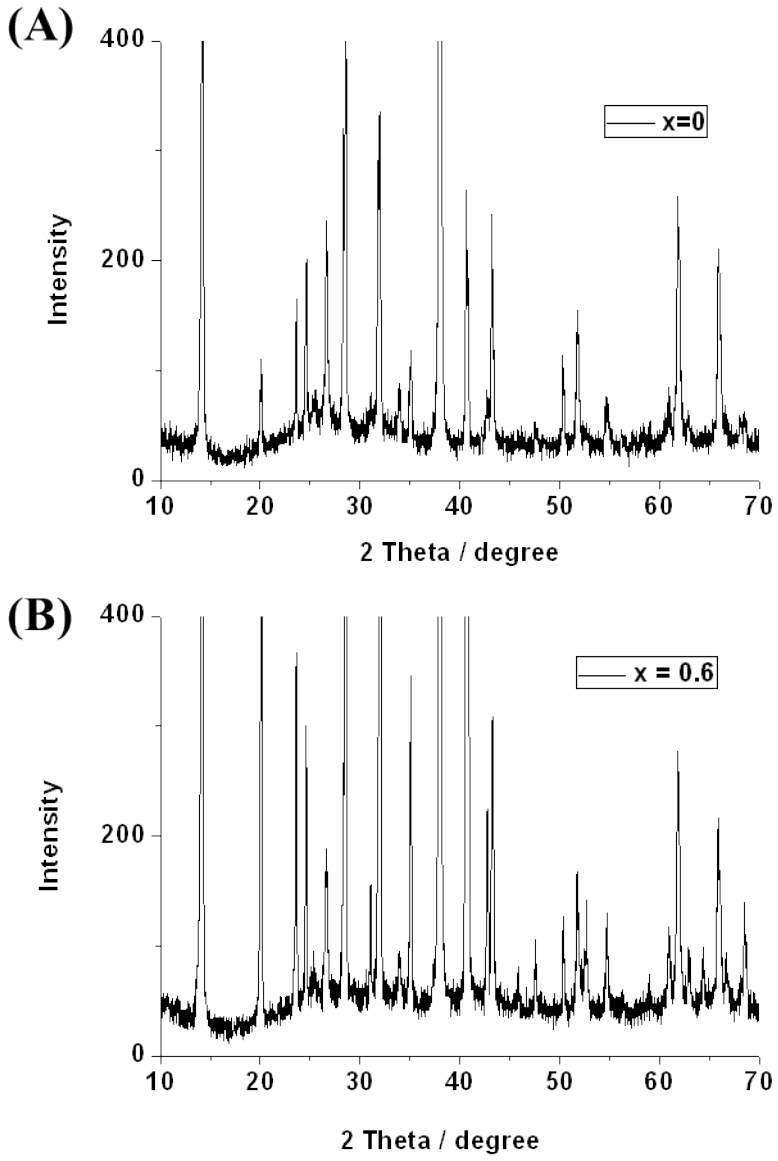

Figure S1: XRD diffraction paterns of the perovskite-coated TiO_2 films prepared at x=0 (A) and 0.6 (B) from the precursor solution (the molar ratio of PbI_2, MAI, and MACl is 1-x:1:x)

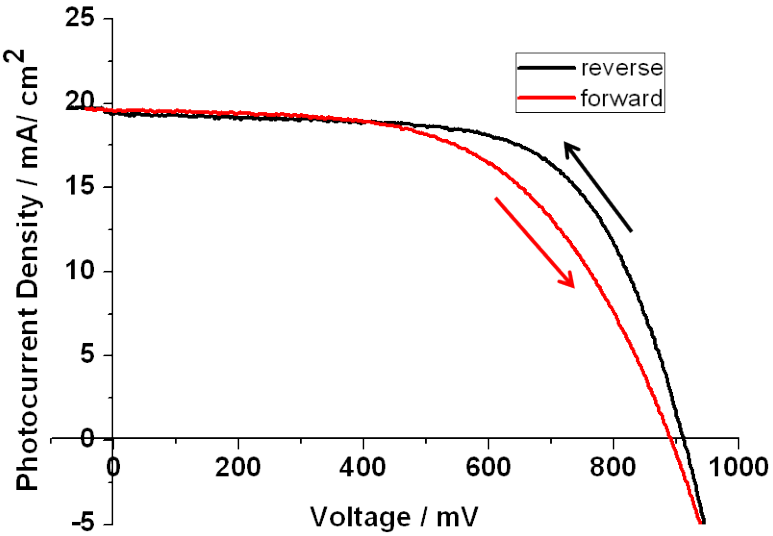

Figure S2: Typical *J-V* curves recorded by the reverse scans with reverse and forward directions at a rate of 200 mV/s for the printing perovskite solar cell (device 6).

Table S1 Photovoltaic performance of the devices prepared at different table temperature.

Device	Temperature / °C	J_{sc} / mA cm^{-2}	V_{oc} / mV	*FF*	η / %
device 1	25	12.56 ± 0.67	790 ± 0.30	0.61 ± 0.03	6.6 ± 0.4
device 2	40	13.46 ± 0.63	824 ± 0.30	0.63 ± 0.02	7.2 ± 0.4
device 3	50	14.25 ± 0.71	826 ± 0.50	0.65 ± 0.04	7.9 ± 0.5
device 4	60	13.83 ± 0.74	822 ± 0.40	0.62 ± 0.04	7.3 ± 0.5

Note: All the values were averaged for four parallel samples.