

Supporting information

Charge selective contacts, mobile ions and anomalous hysteresis in organic-inorganic perovskite solar cells

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Table S1 Average device performance for fabricated mixed halide perovskite solar cells

Device structures		J_{sc} (mA cm ⁻²)	V_{oc} (V)	FF (%)	V_{mpp} (V)	PCE (%)
Planar w/o Ti-CL	FB-SC	15.82	0.76	0.47	0.45	5.54
Meso w/o Ti-CL	FB-SC	16.65	0.95	0.65	0.55	8.85
Planar with Ti-CL	FB-SC	18.32	0.82	0.59	0.59	9.27
meso with Ti-CL	FB-SC	17.39	0.99	0.74	0.64	11.32

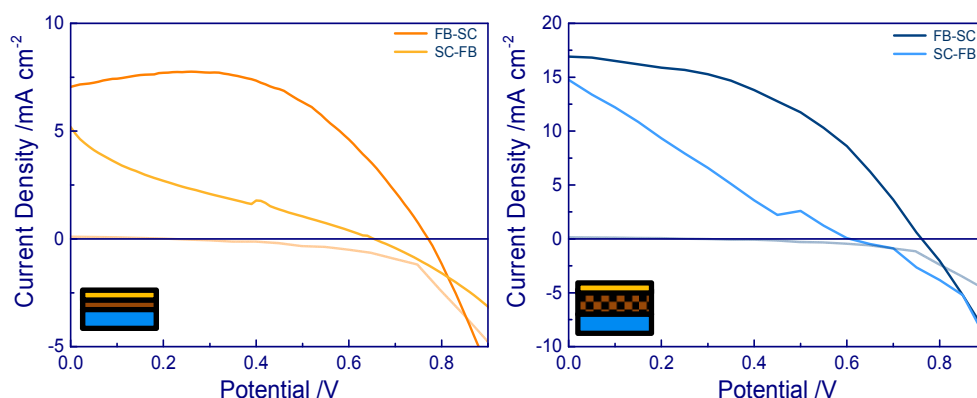


FIGURE S 1 J-V curves measured under Am1.5 simulated sun light of 100mWcm⁻² of (a) planar and (b) mesoporous perovskite solar cells without Ti-CL and without spiro-OMeTAD layers, i.e. FTO and Au contacts direct to the perovskite layer. Note the scales of the plots are different. The inserted diagrams indicate cross-sections of each device configuration.