

Supporting Information

Enhancing the performance of planar organo-lead halide perovskite solar cells by using mixed halide source

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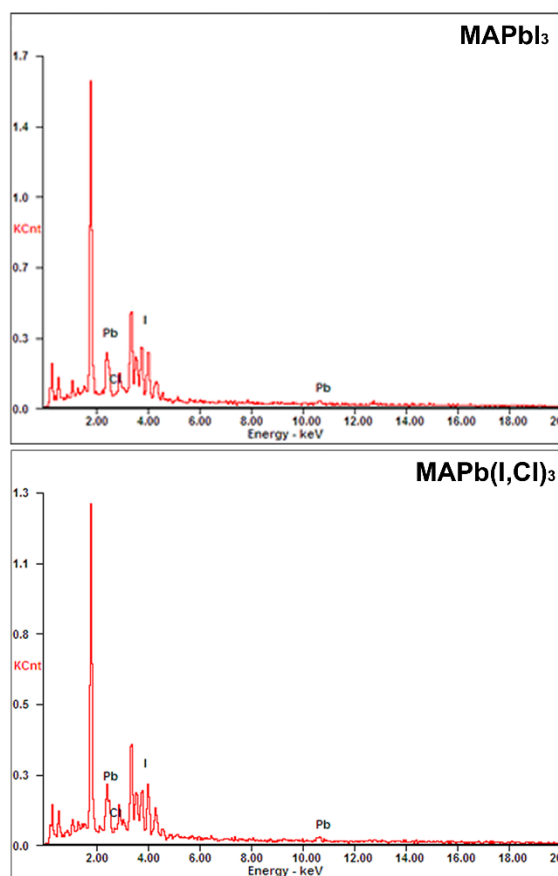


Fig. S1 EDS spectra of the perovskite thin films.

Table S1 Elemental ratios of the perovskite solar cells

	Pb (wt%)	I (wt%)	Cl (wt%)
MAPbI₃	38.95	60.06	0.99
MAPb(I,Cl)₃	38.36	60.65	0.99

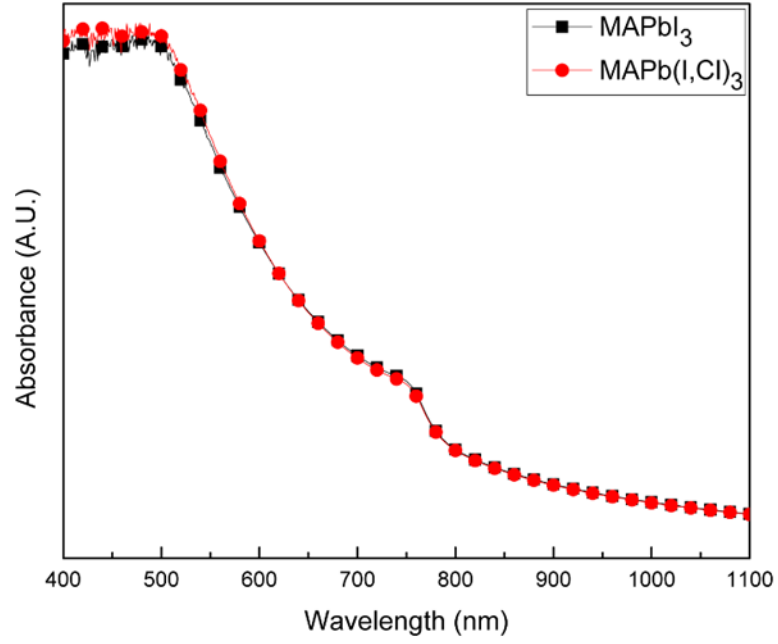


Fig. S2 Absorption spectra of the perovskite thin films.

Table S2 Averaged I-V parameters (16 devices) of the perovskite solar cells.

	Efficiency (%)	V_{oc} (V)	J_{sc} (mA/cm ²)	FF (%)
MAPbI₃	6.91±0.90	0.85±0.04	15.00±2.12	54.57±5.02
MAPb(I,Cl)₃	8.54±1.17	0.89±0.06	17.78±2.62	54.44±4.94

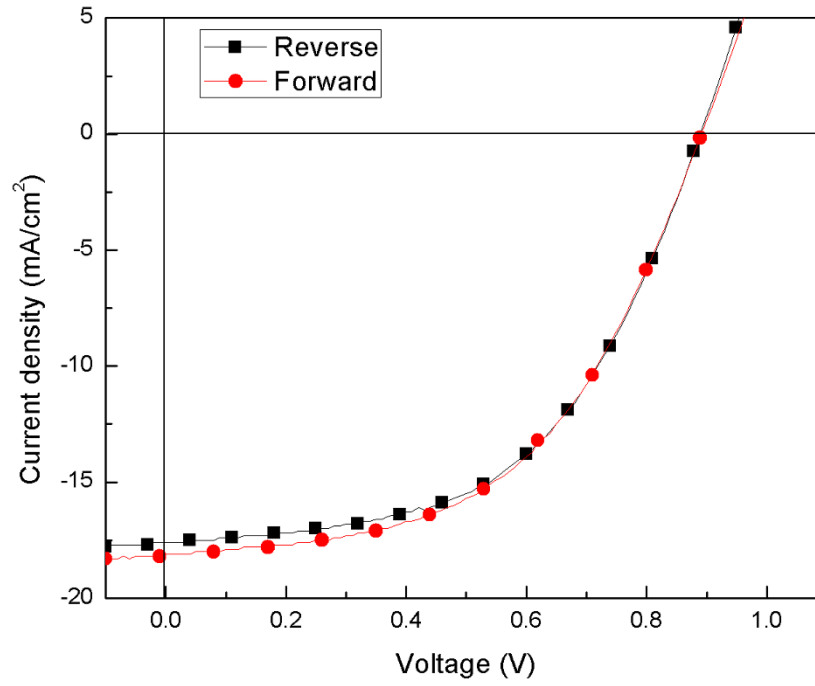


Fig. S3 J-V curves of the best MAPbI₃ solar cell measured with different sweep directions.