Supporting Information

Interfacial Dipole Poly(2-ethyl-2-oxazoline) Modification Triggers Simultaneous Band Alignment and Passivation for Air-Stable Perovskite Solar Cells

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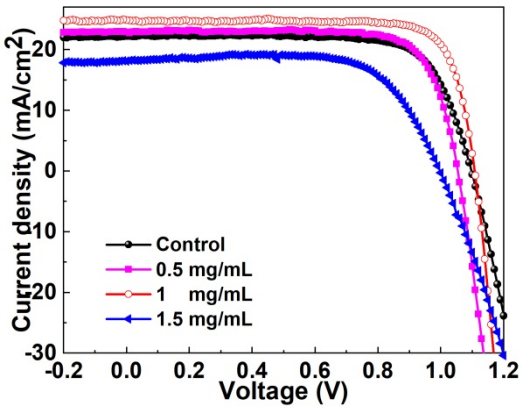

Figure S1. *J–V* characteristics of best-performing control device and devices fabricated with different concentrations of PEOz under AM 1.5G illumination (100 mW cm^{-2}).

Table S1. Photovoltaic parameters of best-performing control device and device prepared with different concentrations of PEOz.

	J_{sc} (mA/cm^2)	V_{oc} (V)	FF (%)	PCE (%)
Control	22.22	1.09	74.56	18.14
0.5 mg/mL	22.90	1.05	77.35	18.66
1 mg/mL	24.88	1.11	79.32	21.86
1.5 mg/mL	18.13	1.00	71.46	12.93

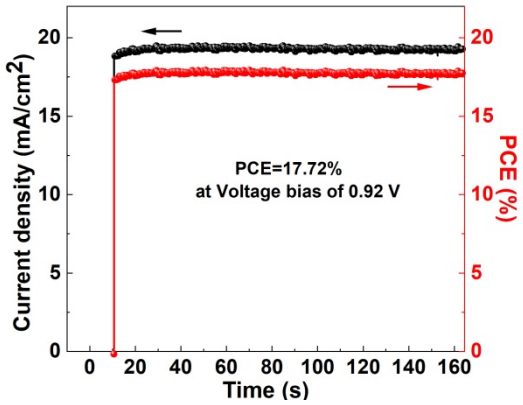

Figure S2. Steady-state photocurrent and PCE output characteristics of the control device.

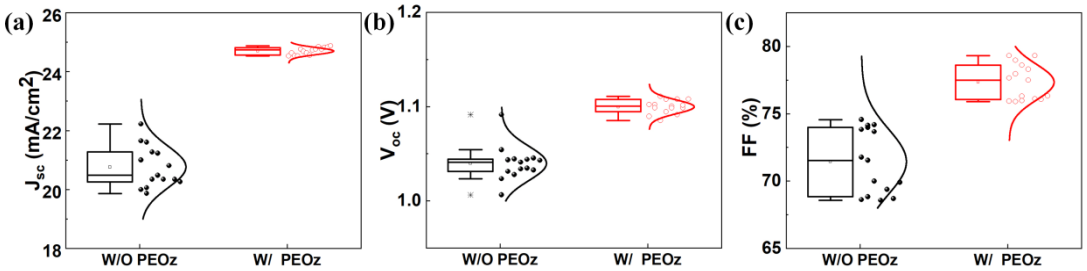

Figure S3. Statistical results of (a) J_{sc}, (b) V_{oc} and (c) FF for the device without and with PEOz, respectively.

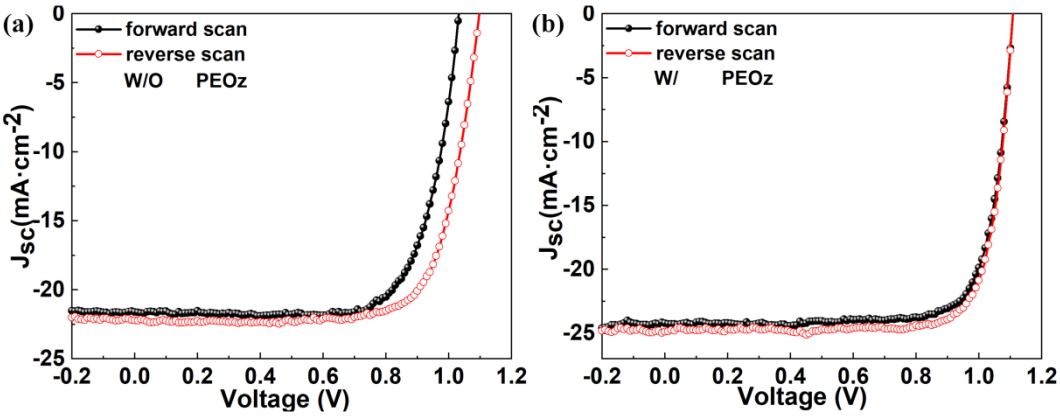

Figure S4. *J–V* curves with different scanning directions of the PSCs (a) without and (b) with PEOz layer, respectively.

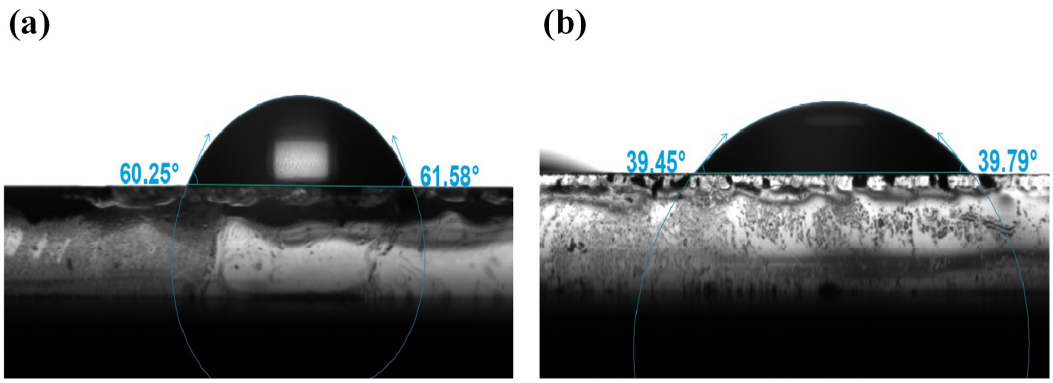

Figure S5. Water contact angles of the $MA_{0.7}FA_{0.3}PbI_{3-x}Cl_x$ films (a) without and (b) with PEOz deposition, respectively.