

Supporting Information

Interfacial seed-assisted FAPbI₃ crystallization and phase stabilization enhances the performance of all-air-processed perovskite solar cells

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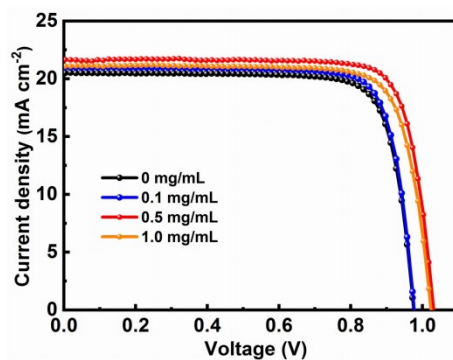


Figure S1. *J-V* curves of the perovskite solar cells based on FAPbI₃ films treated with different concentrations (0, 0.1, 0.5, and 1.0 mg/mL) of CsPbI₃ nanocrystals.

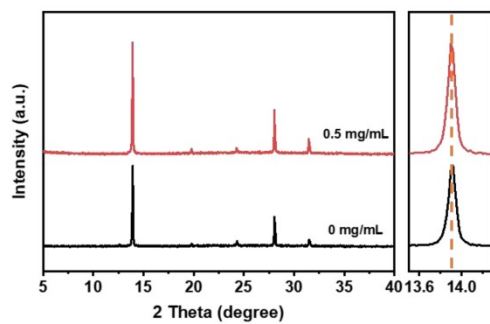


Figure S2. XRD patterns of the control (0 mg/mL) and target (0.5 mg/mL) perovskite films.

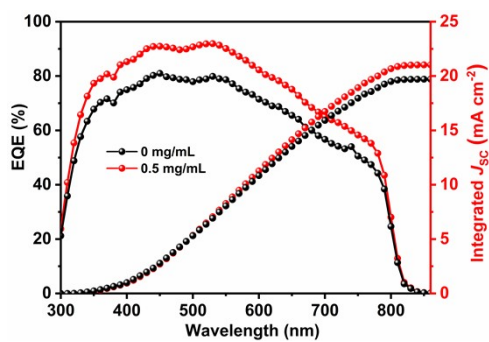


Figure S3. The EQE spectrum of the champion PSC based on the FAPbI₃ film treated with 0.5 mg/mL CsPbI₃ nanocrystals.

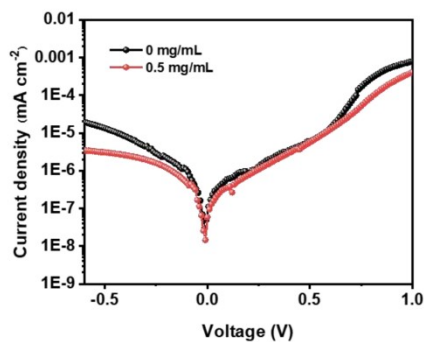


Figure S4. Dark J - V curves of the control (0 mg/mL) and target (0.5 mg/mL) PSCs.

Table S1. Photovoltaic performance parameters of the control (0 mg/mL) and target (0.5 mg/mL) PSCs.

Device	Scanning mode	V_{oc} (V)	J_{sc} (mA/cm ²)	FF (%)	PCE (%)
Control	foward	0.95	19.97	74.26	14.09
	reverse	0.97	20.52	79.88	15.90
Target	foward	1.02	21.24	79.11	17.14
	reverse	1.03	21.69	80.75	18.04