

Supporting Information for

MECHANOSYNTHESIS OF THE HYBRID PEROVSKITE CH₃NH₃PBI₃: CHARACTERIZATION AND THE CORRESPONDING SOLAR CELL EFFICIENCY

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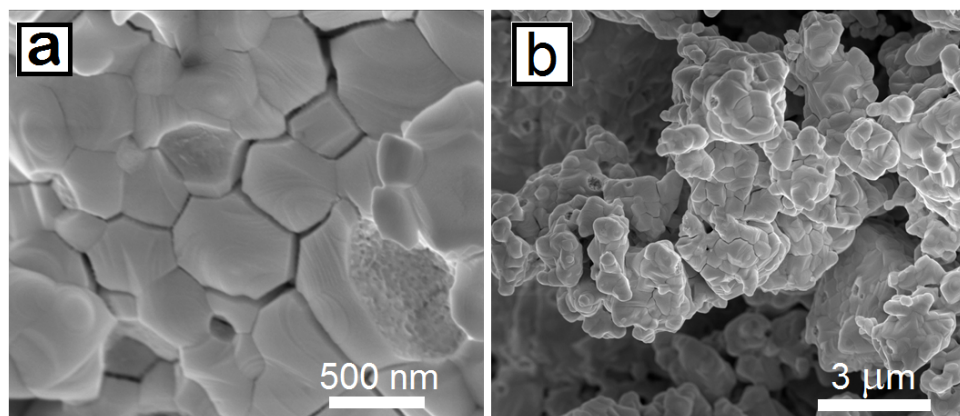


Figure SI 1. Scanning electron microscopy images of the mechanochemically synthesized MAPbI_3 particles.

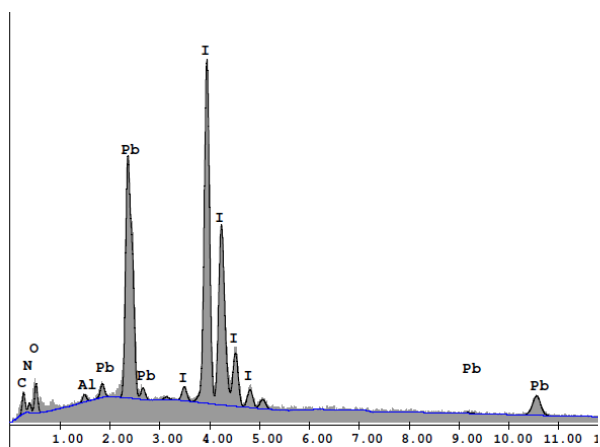


Figure SI 2. EDAX analysis of mechanochemically synthesized methylammonium lead iodide perovskite powder.

Table SI1: Energy-dispersive X-ray s analysis of the as-grounded MAPbI₃ particles.

Element	Wt %	At %	K- Ratio	Z	A	F
C K	2.05	16.23	0.0066	1.3437	0.2409	1.0000
N K	1.30	8.81	0.0039	1.3311	0.2258	1.0001
O K	2.07	12.30	0.0069	1.3195	0.2525	1.0000
Al K	0.47	1.64	0.0019	1.2229	0.3297	1.0013
Pb M	32.38	14.84	0.2727	0.9125	0.9229	1.0003
I L	61.73	46.19	0.5312	0.9874	0.8715	1.0000

Table S12. Photovoltaic parameters of MAPbI₃[s] and MAPbI₃[m] based solar cells.

Device type	Eff. (%)	FF	V_{oc} (mV)	J_{sc} (mA cm ⁻²)
MAPbI ₃ [s]	8.0±	68±	780	15.1
MAPbI ₃ [s]	7.8	67	784	14.8
MAPbI ₃ [s]	8.2	68	777	15.5
MAPbI ₃ [s]	8.1	69	770	15.3
MAPbI ₃ [m]	8.6	70	865	14.2
MAPbI ₃ [m]	8.9	71	876	14.3
MAPbI ₃ [m]	9.1	72	879	14.4
MAPbI ₃ [m]	9.0	70	883	14.0
MAPbI ₃ [m]	8.7	70	885	14.1