crystals

Supplementary Materials: Structural and Quantitative Investigation of Perovskite Pore Filling in Mesoporous Metal Oxides

Shany Gamliel, Inna Popov, Bat-El Cohen, Vladimir Uvarov and Lioz Etgar

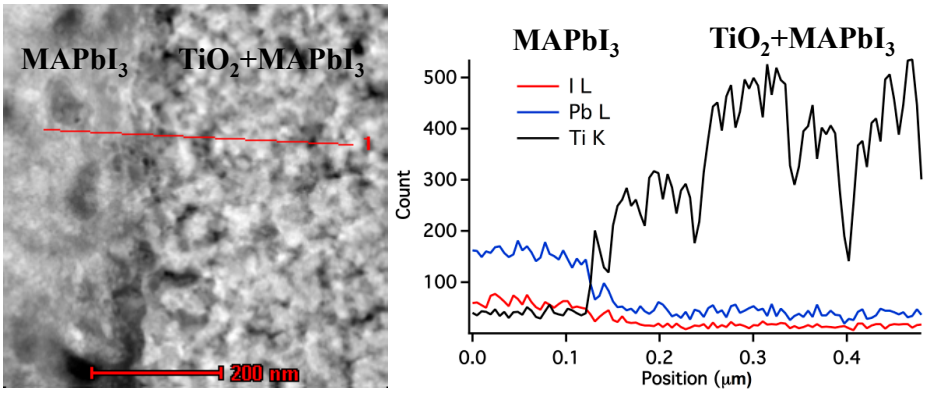

Figure S1. Scanning transmission electron microscopy (STEM) image of a cross-sectioned TiO_2/perovskite solar cell and the energy dispersive X-ray spectroscopy (EDS) line profiles of PbL, IL, and TiK signals along the line shown on the STEM image. MAPbI3: $CH_3NH_3PbI_3$

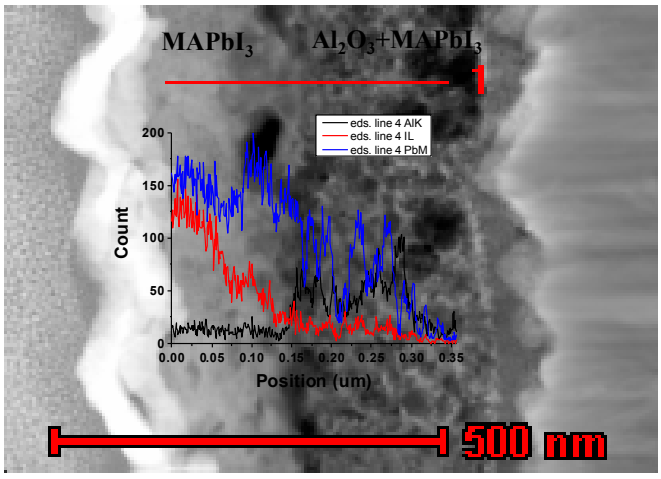

Figure S2. STEM image of a cross-sectioned Al_2O_3/perovskite solar cell and the EDS line profile of PbL, IL, and AlK signals along the line shown on the STEM image.

Table S1. X-ray photoelectron spectroscopy (XPS) quantification report of the perovskite sample.

Peak	Type	Position BE (eV)	FWHM(eV)	Raw Area (cps eV)	RSF	Atomic Mass	Atomic Conc %	Mass Conc %
I 3d	Reg	616.500	1.059	160523.1	10.343	126.904	32.01	61.25
O 1s	Reg	530.100	2.227	1875.7	0.780	15.999	5.01	1.21
N 1s	Reg	399.600	1.209	2758.2	0.477	14.007	12.41	2.62
C 1s	Reg	282.400	2.543	5368.5	0.278	12.011	41.81	7.57
Pb 4f	Reg	135.700	0.810	33306.5	8.329	207.206	8.76	27.35