



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

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Figure S1. Scanning transmission electron microscopy (STEM) image of a cross-sectioned TiO₂/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: CH₃NH₃PbI₃



Figure S2. STEM image of a cross-sectioned Al₂O₃/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-rav	photoelectron	spectroscopy	(XPS)	quantification	report of the	perovskite sam	ple.
Table	01.7	<i>c</i> -ray	photocicculon	specifoscopy	(/10)	quantineation	report of the	perovskite sum	pic.

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



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