

Supplementary Materials: Structural Damage of Two-Dimensional Organic–Inorganic Halide Perovskites

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Table S1. Single crystal X-ray diffraction data of BA₂MAPb₂I₇.

Bond precision:	Pb–I = 0.0010 Å	Wavelength=0.71073
Cell: a=39.505(4)	b=8.9667(8)	c=8.8916(9)
alpha=90	beta=90	gamma=90
Temperature:310 K		
	Calculated	Reported
Volume	3149.7(5)	3149.7(5)
Space group	C m c m	C m c m
Hall group	–C 2c 2	–C 2c 2
Moiety formula	C18 H60 I14 N6 Pb4	Pb2 I7, C N H6, 2(N C4 H12)
Sum formula	C18 H60 I14 N6 Pb4	C9 H30 I7 N3 Pb2
Mr	2966.12	1483.04
Dx,g cm ^{–3}	3.128	3.127
Z	2	4
Mu (mm ^{–1})	17.537	17.537
F000	2560.0	2560.0
F000'	2522.71	
h,k,lmax	60,13,13	60,13,13
Nref	3222	3211
Tmin, Tmax	0.001, 0.122	0.008, 0.055
Tmin'	0.000	
Correction method= # Reported T Limits: Tmin=0.008		
Tmax=0.055 AbsCorr = MULTI-SCAN		
Data completeness= 0.997 Theta(max)= 33.160		
R(reflections)= 0.0667(2391) wR2(reflections)= 0.2146(3211)		
S = 1.053 Npar= 91		

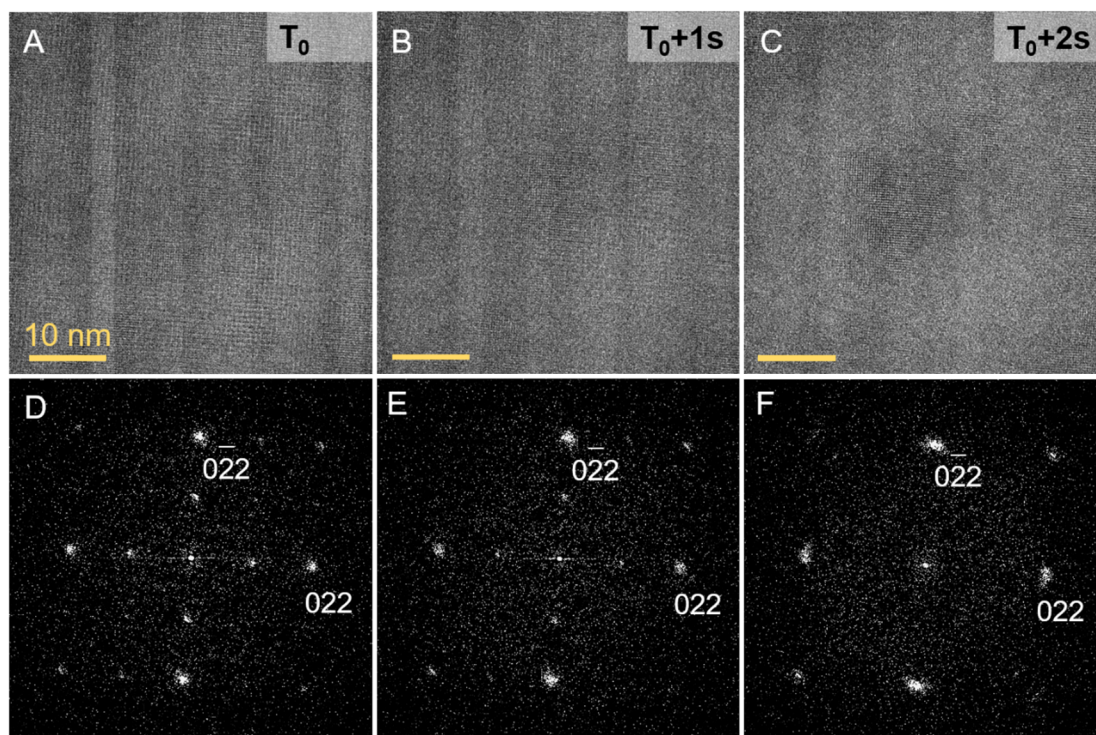


Figure S1. Raw HRTEM series and its FT images show the structural change under electron beam.