

Supplementary Information

Hydrazine Acetate Promoted Formation of Equiaxed Perovskite Grains for Efficient Solar Cells

Yanan Sun, Yuan Li, Wei Chen, Zhengyi Sun*

State Key Laboratory of Flexible Electronics (LoFE) & Institute of Advanced Materials (IAM),
School of Flexible Electronics (Future Technologies), Nanjing Tech University, Nanjing 211816,
China

*Corresponding author: iamzysun@njtech.edu.cn

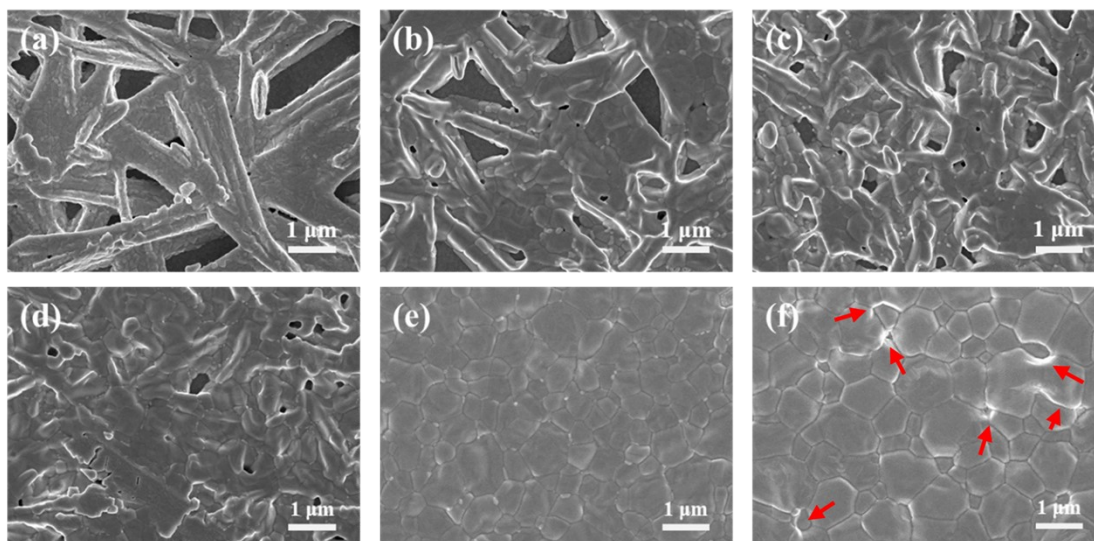


Fig. S1. Top-view SEM images at higher magnification.

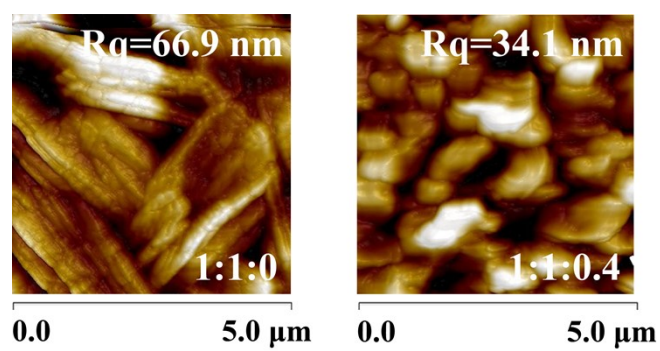


Fig. S2. AFM images of 1:1:0 and 1:1:0.4 films.

We summarized previously reported studies related to our work in Table S1.

Table S1. Researches similar to our work.

Device structure	Additive	Initial, PCE (%)	After additive, PCE (%)	Ref.
ITO/PEDOT:PSS/perovskite/PC ₆₁ BM/Al	NH ₄ Cl	0.04	9.93	[41]
ITO/PEDOT:PSS/perovskite/PC ₆₁ BM/Al	CH ₃ NH ₃ Cl	0.04	8.16	[41]
ITO/PEDOT:PSS/perovskite/PC ₆₁ BM/Bis -C ₆₀ /Ag	1,8-diiodooctane	7.9	10.3	[38]
FTO/PEDOT:PSS/perovskite/PC ₆₁ BM/Bis -C ₆₀ /Ag	1,8-diiodooctane	9.0	11.8	[38]
ITO/PEDOT:PSS/perovskite/PCBM/Al	1-chloronaphthalene	6.96	8.97	[42]
ITO/PEDOT:PSS/perovskite/PCBM/Al	1,8-diiodooctane	6.96	8.12	[42]
ITO/PEDOT:PSS/perovskite/PCBM/Al	NMP	1.50	7.03	[43]
ITO/PEDOT:PSS/perovskite/PCBM/Al	NEP	1.50	10.04	[43]
ITO/PEDOT:PSS/perovskite/PCBM/Al	CHP	1.50	12.87	[43]
ITO/PEDOT:PSS/perovskite/PC ₆₁ BM/Ag	TPDI	8.32	10.84	[44]
ITO/PEDOT:PSS/perovskite/PCBM/Al	acetylacetone	12.1	14.8	[45]
ITO/PEDOT:PSS/perovskite/PC ₆₁ BM/Ag	C ₂ H ₈ N ₂ O ₂	0.09	10.58	This work