

Supporting Information

Preparation of flexible perovskite solar cells with gas pump drying method on plastic substrate

Li-Li Gao,^a Lu-Sheng Liang,^b Xiao-Xuan Song,^a Bin Ding,^a Guan-Jun Yang,^{*a} Bin Fan,^b Cheng-Xin Li,^a Chang-Jiu Li^a

a. State Key Laboratory for Mechanical Behavior of Materials, School of Materials Science and Engineering, Xi'an Jiaotong University, Xi'an, Shaanxi 710049, PR China.

E-mail: ygj@mail.xjtu.edu.cn, licj@mail.xjtu.edu.cn

b. Xiamen Weihua Solar Co. Ltd., Xiamen, 361100, China.

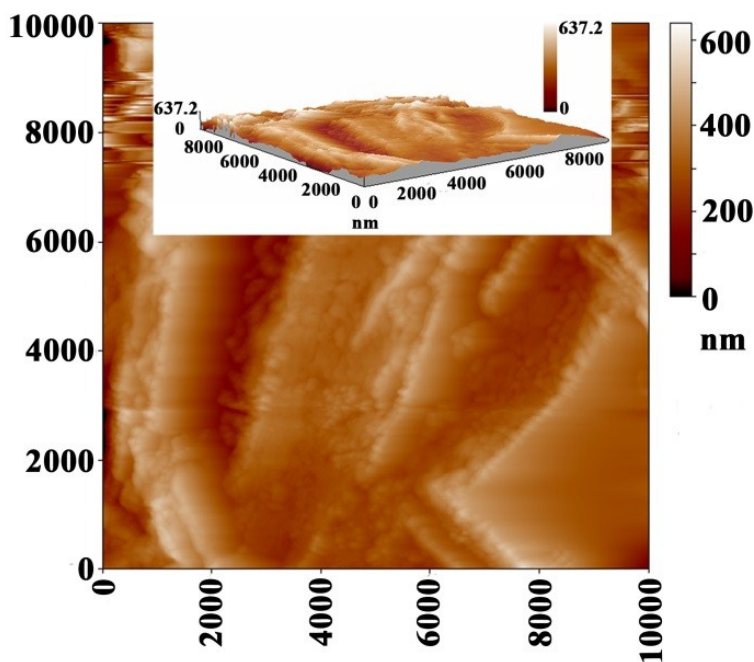


Fig. S1 AFM topographies of perovskite film made by conventional heat drying method with a sweeping range of $10 \times 10 \mu\text{m}^2$.

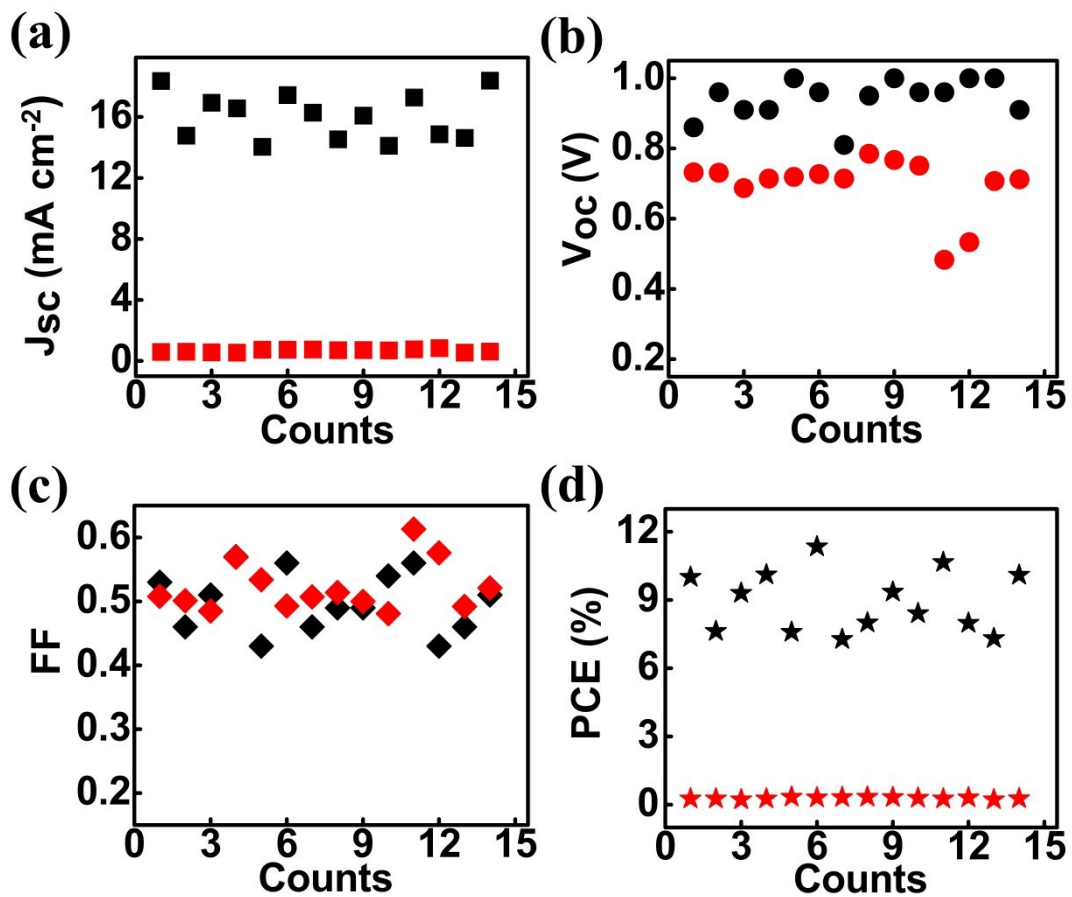


Fig. S2 Count cells distributions (a) short-circuit photocurrent density (J_{sc}), (b) open-circuit photovoltage (V_{oc}), (c) fill factor (FF) and (d) power conversion efficiency (PCE). The black is the devices prepared by gas pump drying method, the red is the devices prepared by conventional heat drying method.

Table S1 The photovoltaic performance of the planar devices containing perovskite films made by the one-step gas pump drying method.

	J_{sc} (mA cm^{-2})	V_{oc} (V)	FF	PCE (%)
Mean	16.02	0.94	0.50	8.93
Standard Deviation	1.53	0.06	0.05	1.36