

Supplementary Materials

The credible evidence for passivation effect of remnant PbI_2 in $\text{CH}_3\text{NH}_3\text{PbI}_3$ films for improving the performance of perovskite solar cells

Shimao Wang,^{a,b} Weiwei Dong,^{*a,b} Xiaodong Fang,^{*a,b,c} Qingli Zhang,^a Shu Zhou,^a Zanhong Deng,^{a,b} Ruhua Tao,^{a,b} Jingzhen Shao,^{a,b} Rui Xia,^a Chao Song,^a Linhua Hu^b and Jun Zhu^b

^a Anhui Provincial Key Laboratory of Photonic Devices and Materials, Anhui Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, Hefei 230031, P. R. China

^b Key Laboratory of Novel Thin Film Solar Cells, Chinese Academy of Sciences, Hefei 230031, P. R. China

^c School of Environmental Science and Optoelectronic Technology, University of Science and Technology of China, Hefei 230026, P. R. China

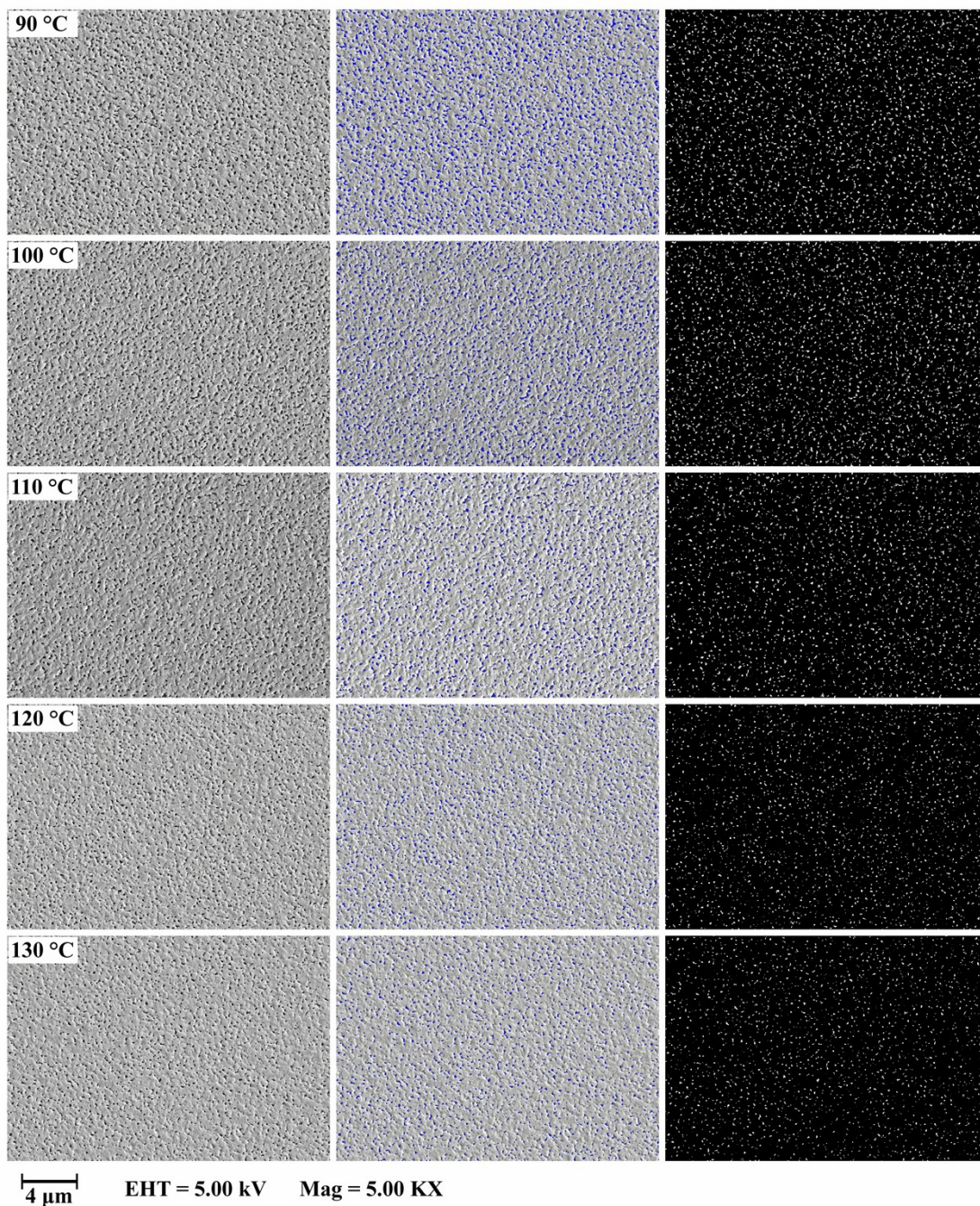


Fig. S1 FE-SEM images and binarized FE-SEM images of the PbI_2 films prepared at different temperature. The magnification is 5000 \times .

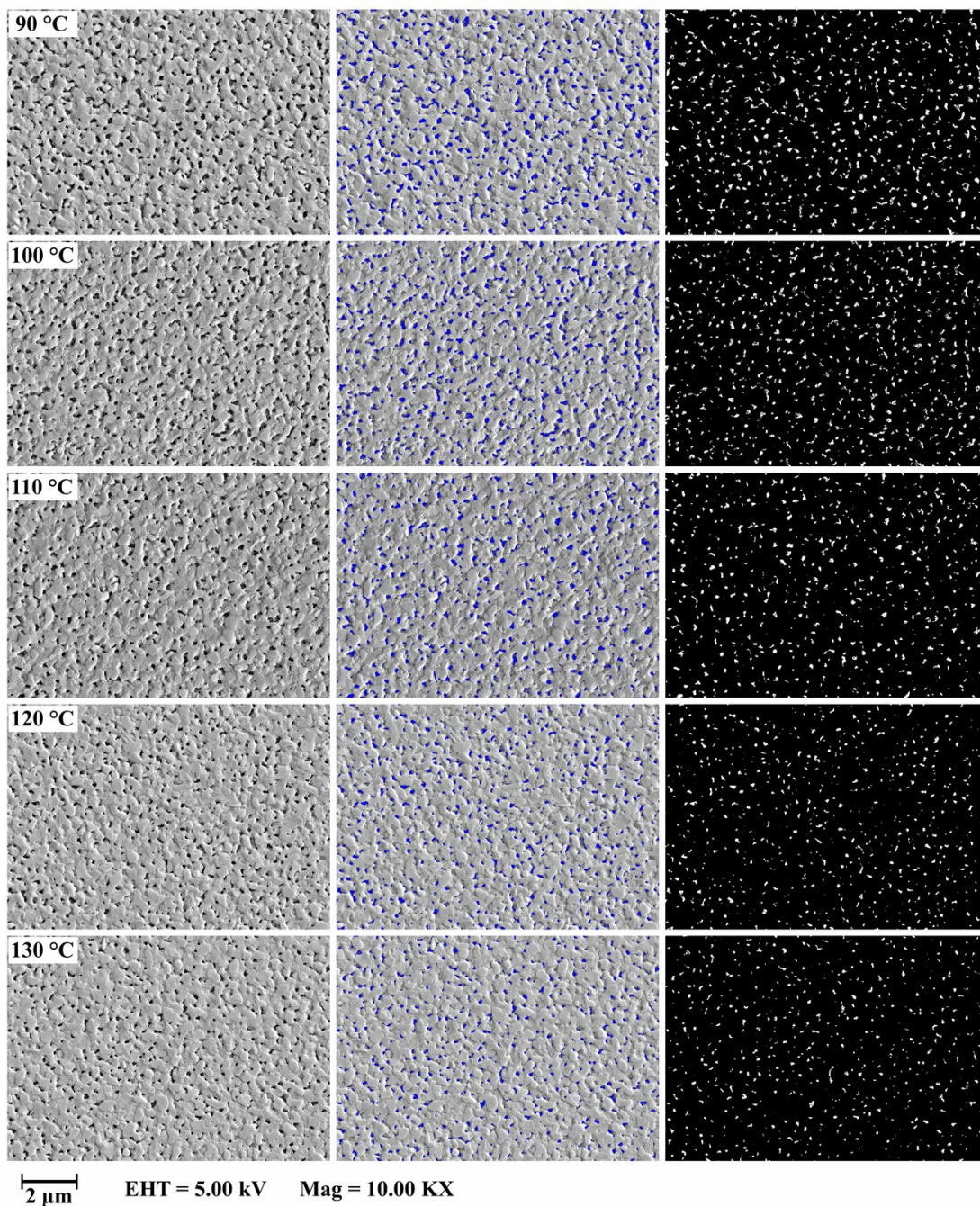


Fig. S2 FE-SEM images and binarized FE-SEM images of the PbI_2 films prepared at different temperature. The magnification is 10000 \times .

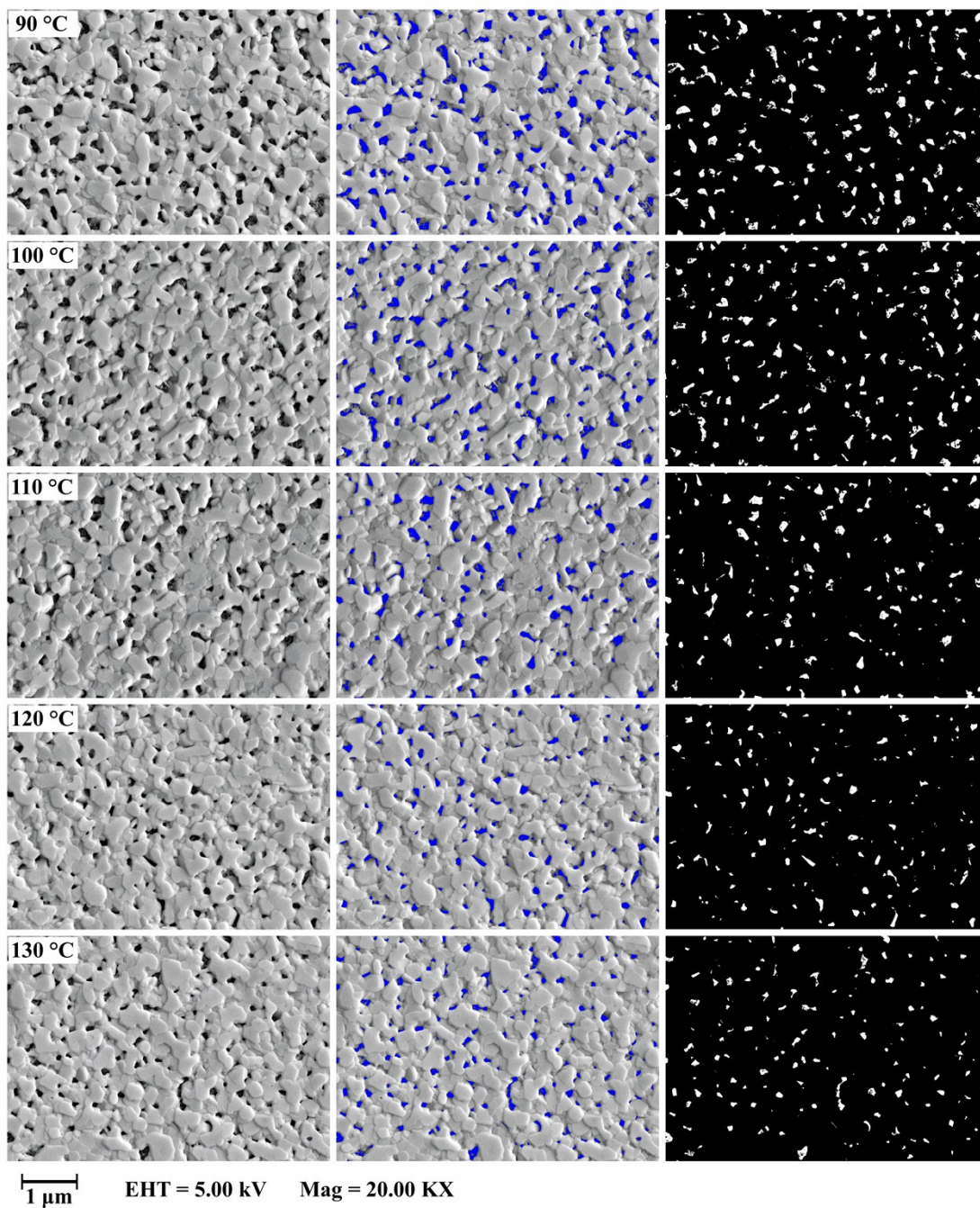


Fig. S3 FE-SEM images and binarized FE-SEM images of the PbI_2 films prepared at different temperature. The magnification is 20000 \times .