Supporting Information

Growth, Patterning and Alignment of Organolead Iodide

Perovskite Nanowires for Optoelectronics

Hui Deng¹, Dongdong Dong¹, Keke Qiao¹, Lingling Bu¹, Bing Li¹, Dun Yang¹, Hong-En Wang², Yibing Cheng^{1, 3}, Zhixin, Zhao^{1*}, Jiang Tang¹, Haisheng Song^{1*}

¹Wuhan National Laboratory for Optoelectronics (WNLO) and School of Optical and Electronic Information, Huazhong University of Sciences and Technology, 1037 Luoyu Road, 430074, Wuhan, Hubei, P. R. China

²State Key Laboratory of Advanced Technology for Materials Synthesis and Processing, Wuhan University of Technology, Luoshi Road, 430070, Wuhan, Hubei, China

³Department of Materials Engineering, Monash University, Melbourne, Victoria, 3800, Australia

*Email of corresponding authors: zhixin-zhao@163.com and songhswnlo@mail.hust.edu.cn

Figure S1 (a) The leakage current for open circuit at a bias voltage of 10 V. (b) The leakage current evolved as the probes connected on the bare glass at a bias voltage of 10 V.



Figure S2 (a-c) I-t curves of the photodetectors at a bias voltage of 30 V (a), 40 V (b) ,50 V (c) by 650 nm illumination. (d) The curves of Figure S2a-c were plotted in one figure.



Figure S3. The morphologies of NW absorption layer surface.

