

Supporting Information

Hysteretic Behavior upon Light Soaking in Perovskite Solar Cells

Prepared via Modified Vapor-Assisted Solution Process

Chong Liu, Jiandong Fan, Xing Zhang, Yanjiao Shen, Lin Yang, Yaohua Mai**

Department of Physics, Hebei University, Baoding, 071002, China

AUTHOR INFORMATION

Corresponding Authors

Phone: +86 312 5077382

Fax: +86 312 5077382

*E-mail: (J. F.) jdfan@hbu.edu.cn;

*E-mail: (Y. M.) yaohuamai@hbu.edu.cn.

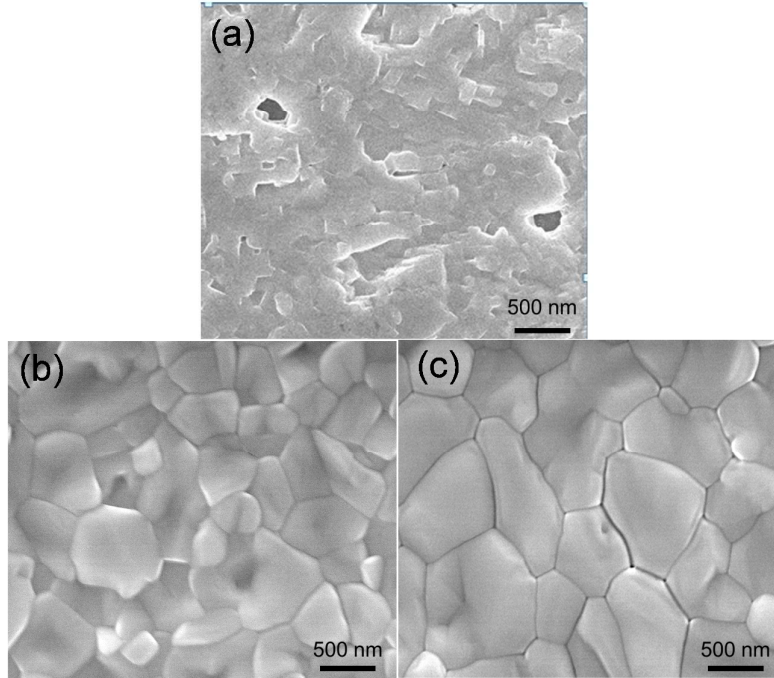


Figure S1. Top-down SEM images of perovskite thin film via different techniques: (a) solution-processed method; (b) modified vapor-assisted solution processed with planar structure and (c) mesoscopic structure.

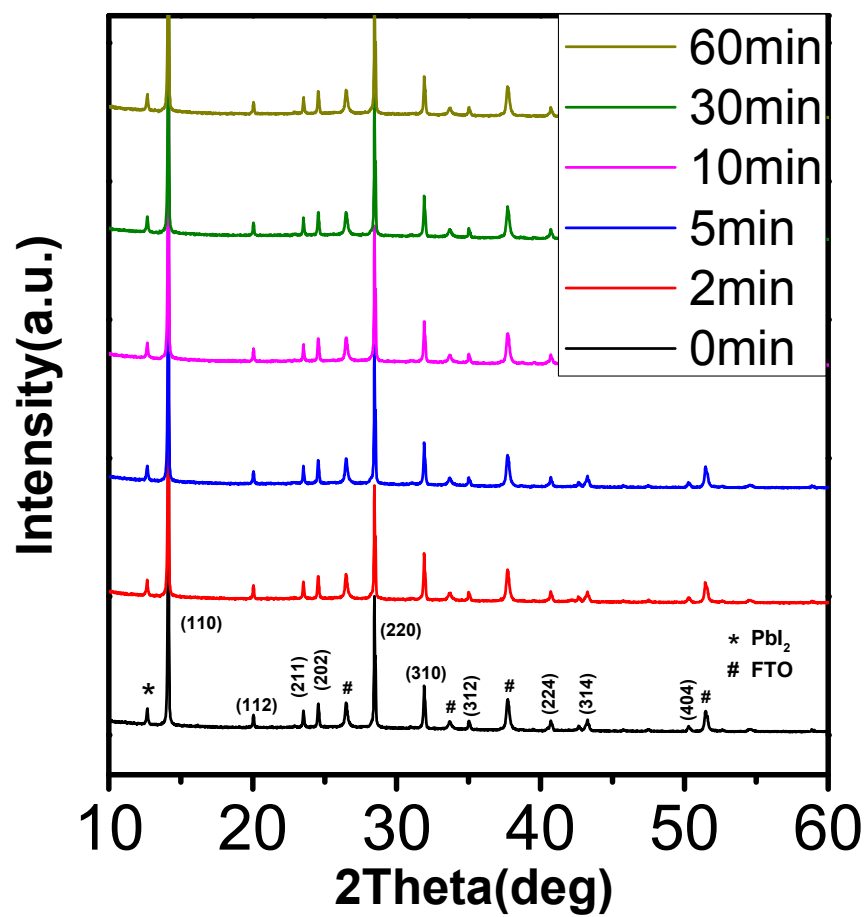


Figure S2, XRD patterns of perovskite thin film upon different illumination time

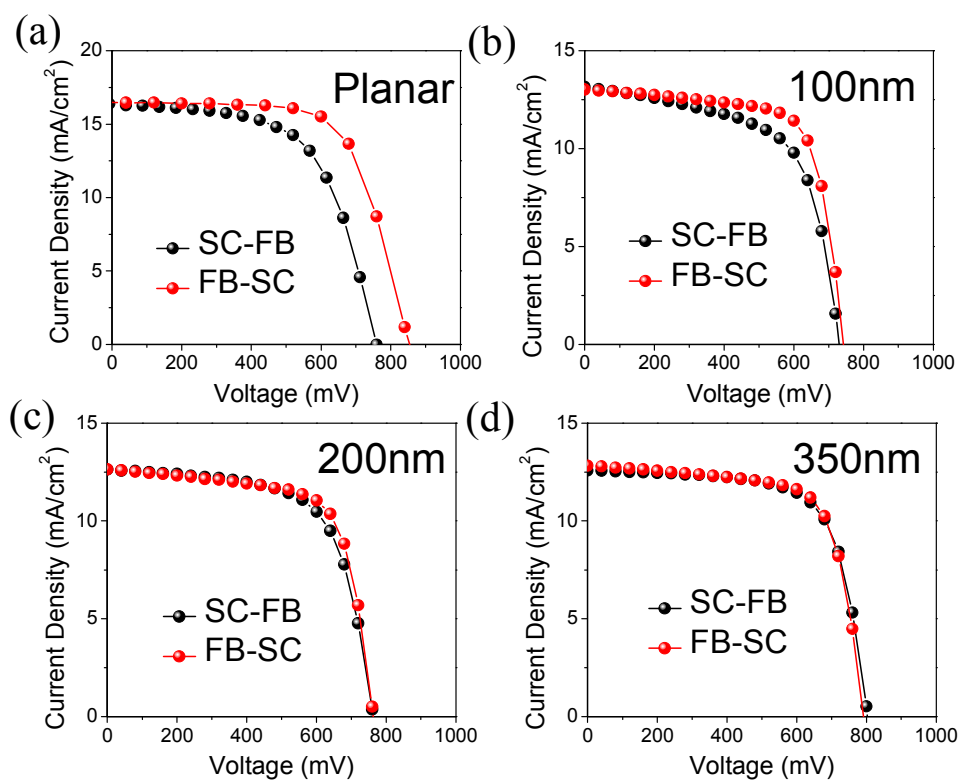


Figure S3. The I-V evolution of perovskite solar cells as a function of mesoporous TiO_2 thickness

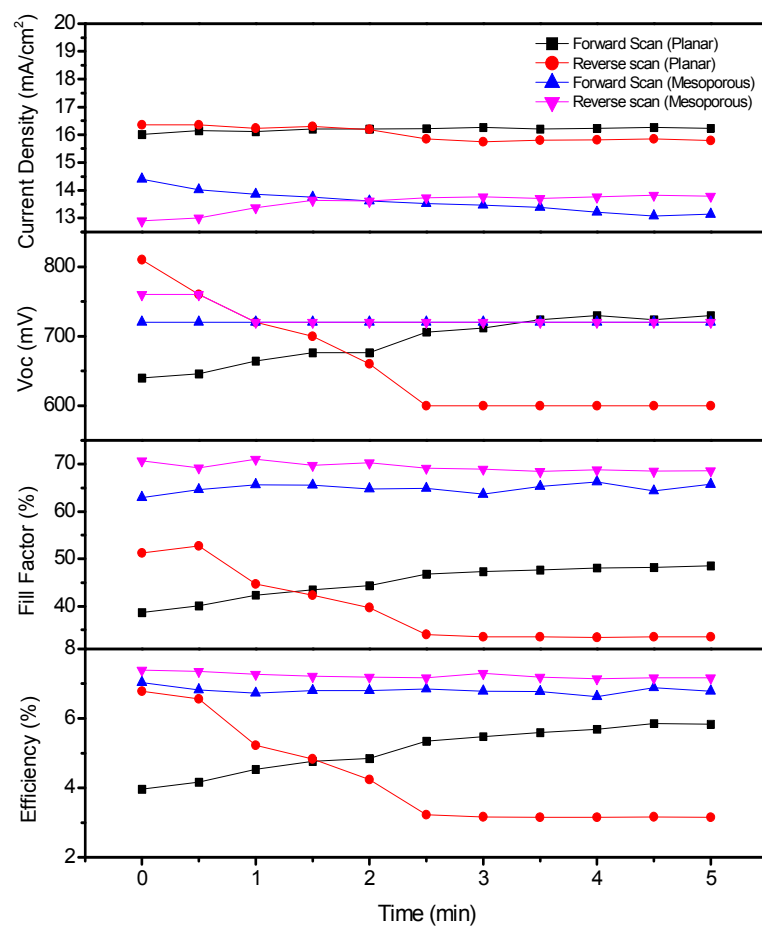


Figure S4. The photovoltaic performances trend as a function of light soaking time under applied biases.