

Supplementary Materials

To

Investigating the Performance of Efficient and Stable Planer Perovskite Solar Cell with an Effective Inorganic Carrier Transport Layer Using SCAPS-1D Simulation

Safdar Mehmood ^{1,2}, Yang Xia ^{1,2,3,4,*}, Furong Qu ^{1,2,*} and Meng He ^{1,2}

¹ Institute of Microelectronics of Chinese Academy of Sciences, Beijing 100029, China;
safdar@ime.ac.cn (S.M.); hemeng@ime.ac.cn (M.H.)

² University of Chinese Academy of Sciences, Beijing 100049, China

³ University of Science and Technology of China, Hefei 230026, China

⁴ Suzhou Institute for Advanced Research, University of Science and Technology of
China, Suzhou 215123, China

* Correspondence: xiayang@ime.ac.cn (Y.X.); qufurong@ime.ac.cn (F.Q.); Tel.: +86-
136-1121-8429 (Y.X.)

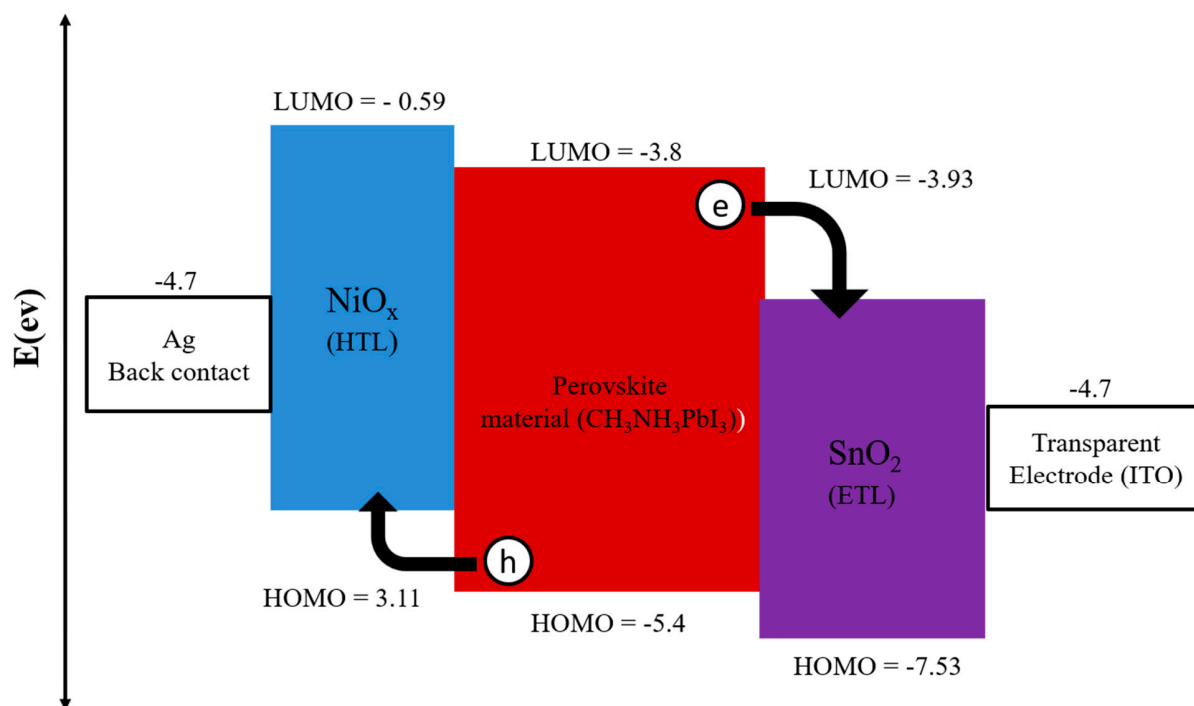


Figure S1. Band alignment diagram

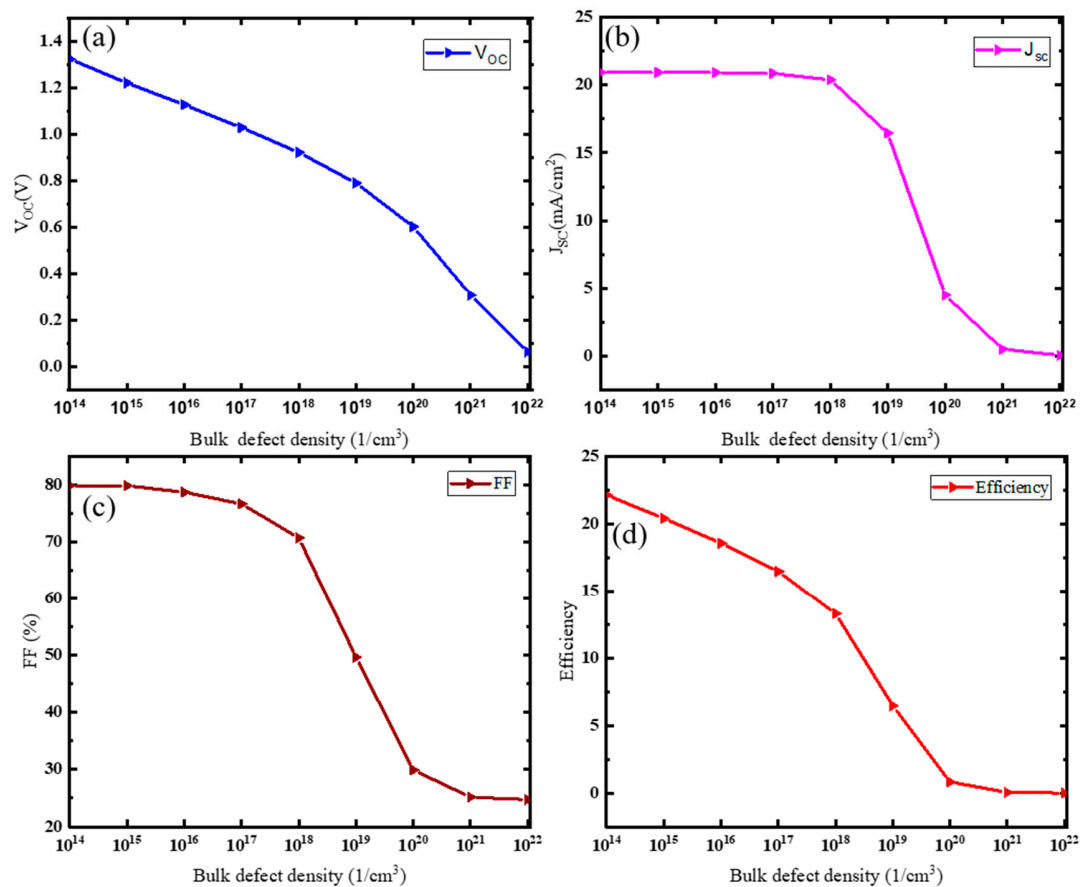


Figure S2. Effect of bulk defects in the cell structure

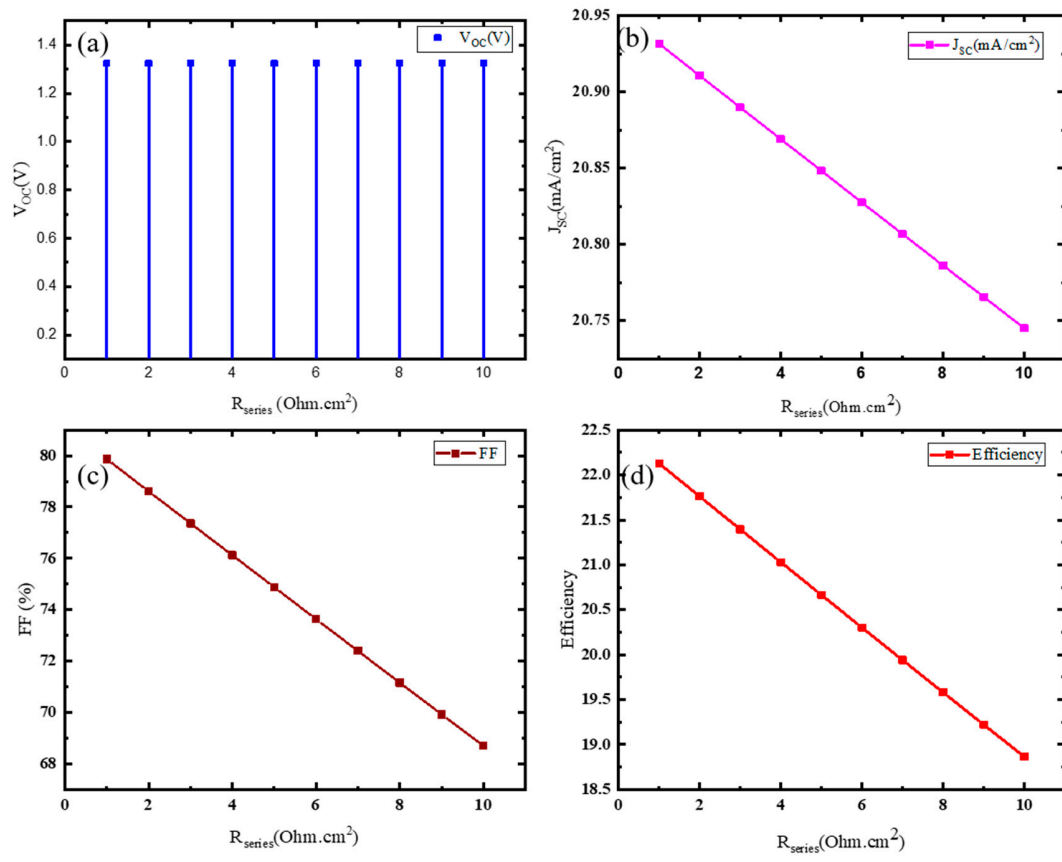


Figure S3. Effect of series resistance

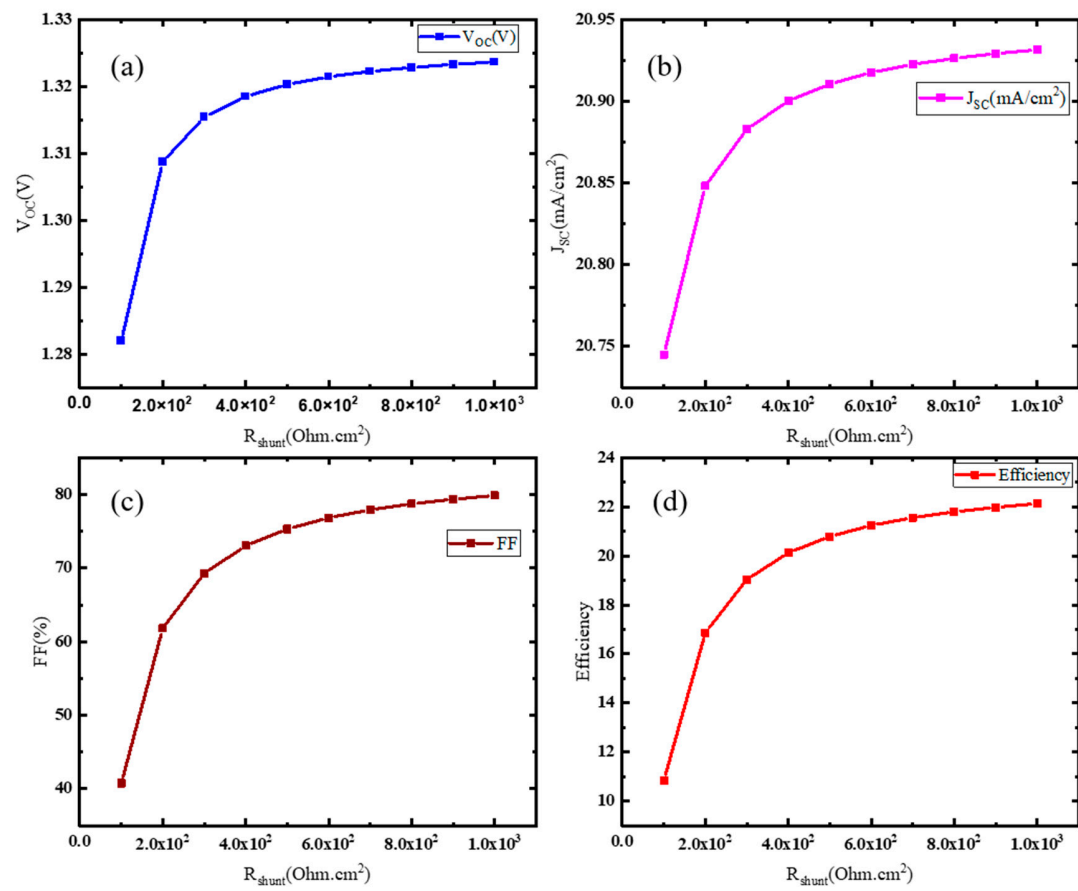


Figure S4. Effect of shunt resistance