Supporting Information

Robust and Air-Stable Sandwiched Organo-Halide Lead Perovskites for Photodetector Applications

Banavoth Murali†, Makhsud I. Saidaminov†, Ahmed L. Abdelhady, Wei Peng, Jiakai Liu, Jun Pan, Osman M. Bakr*, Omar F. Mohammed*

Physical Sciences and Engineering Division, Solar and Photovoltaics Engineering Research Center (SPERC), King Abdullah University of Science and Technology (KAUST), Thuwal, 23955-6900, Saudi Arabia

* Prof. Omar F. Mohammed (Corresponding Author)
  E-mail: omar.abdelsaboor@kaust.edu.sa

* Prof. Osman Bakr (Corresponding Author)
  E-mail: osman.bakr@kaust.edu.sa
Fig. S1. Temperature dependent current (log $J$)-voltage (log $V$) characteristics, showing the various conduction mechanisms with varied slopes in the respective regions of applied bias in the case of homojunction (MAPbI$_3$-MAPbI$_3$).
Fig. S2. Temperature dependent current (log $J$)-voltage (log $V$) characteristics, showing the various conduction mechanisms with varied slopes in the respective regions of applied bias in the case of heterojunction (MAPbI$_3$-MAPbBr$_3$).