

## Supporting Information

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

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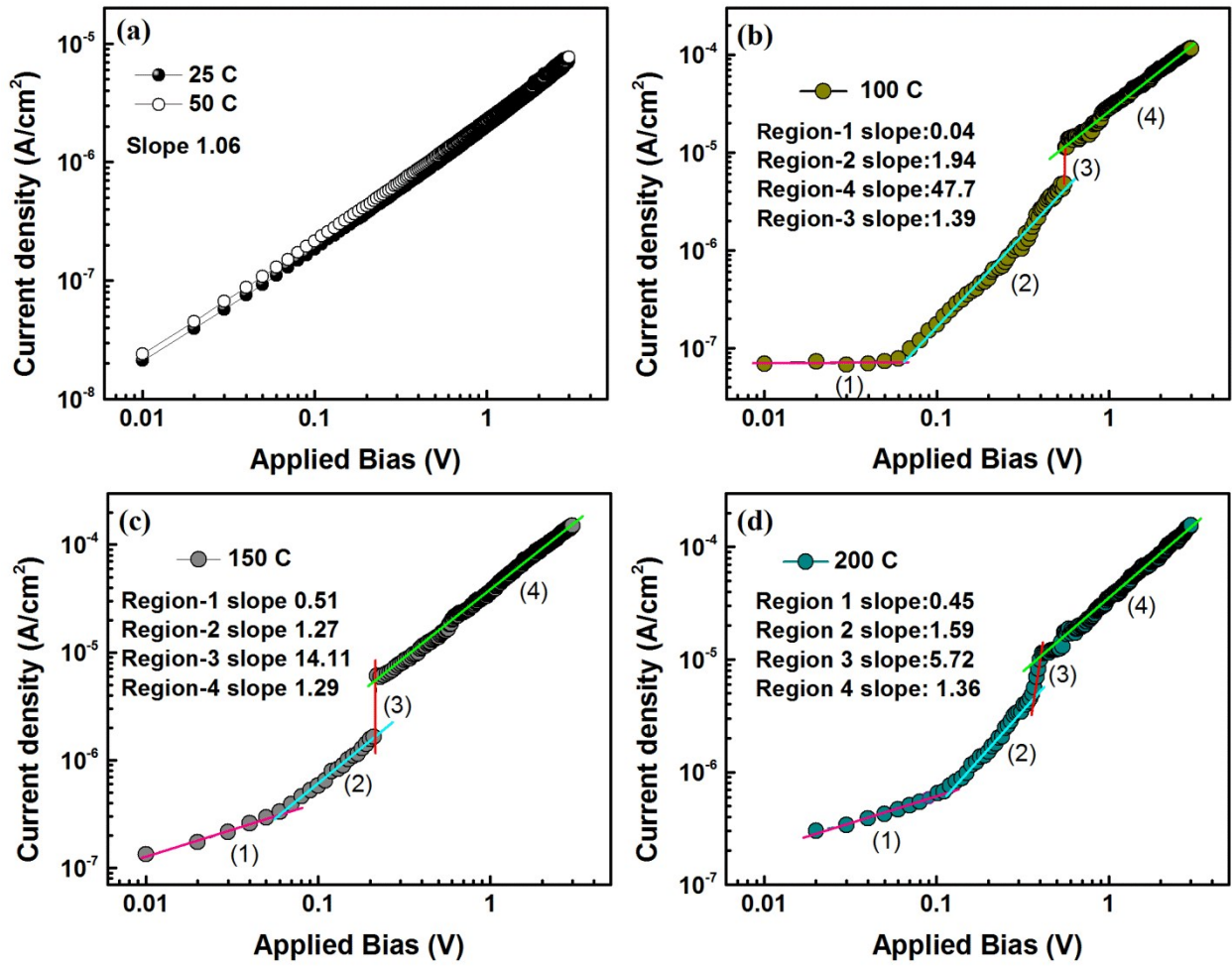
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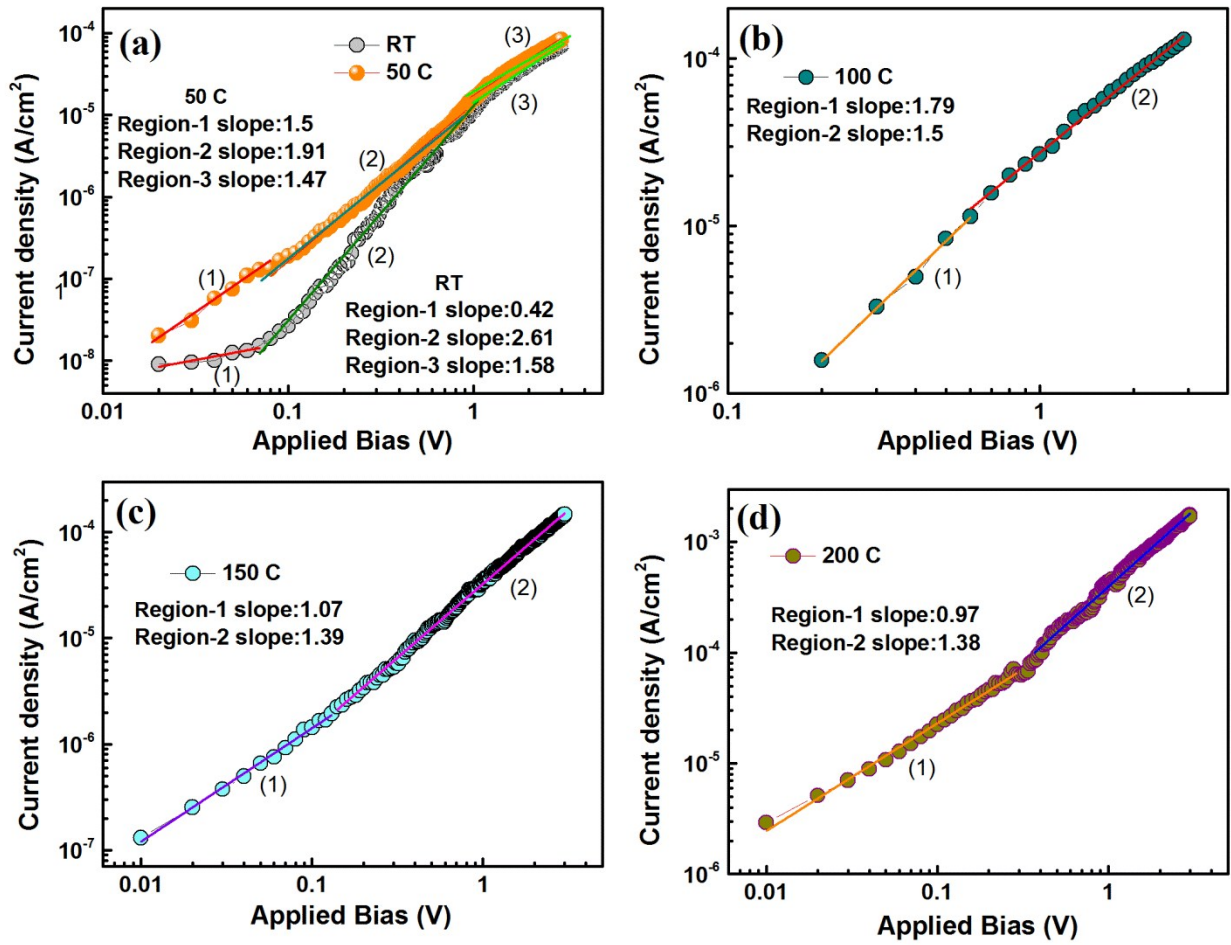
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**Fig. S1.** Temperature dependent current ( $\log J$ )-voltage ( $\log V$ ) characteristics, showing the various conduction mechanisms with varied slopes in the respective regions of applied bias in the case of homojunction (MAPbI<sub>3</sub>-MAPbI<sub>3</sub>).



**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<sub>3</sub>-MAPbBr<sub>3</sub>).