

Supporting Information

High-Quality Organohalide Lead Perovskite Films Fabricated with Layer-by-Layer Alternating Vacuum Deposition for High Efficiency Photovoltaics

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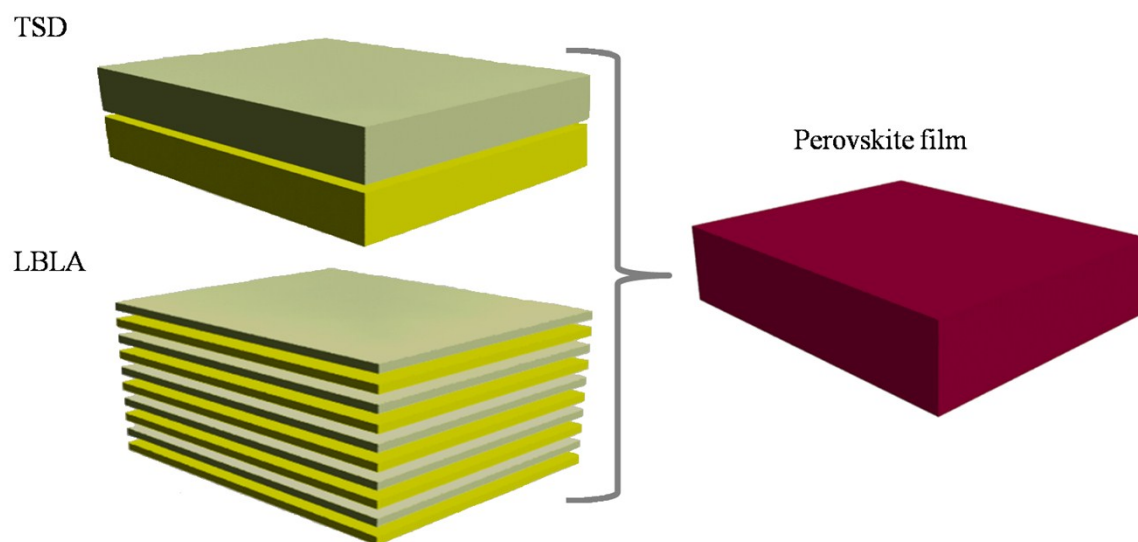


Figure S1. Schematic of the TSD and LBLA evaporation processes of perovskite film. The yellow, white, and brownish colors correspond to PbI_2 , MAI, and Perovskite films, respectively.

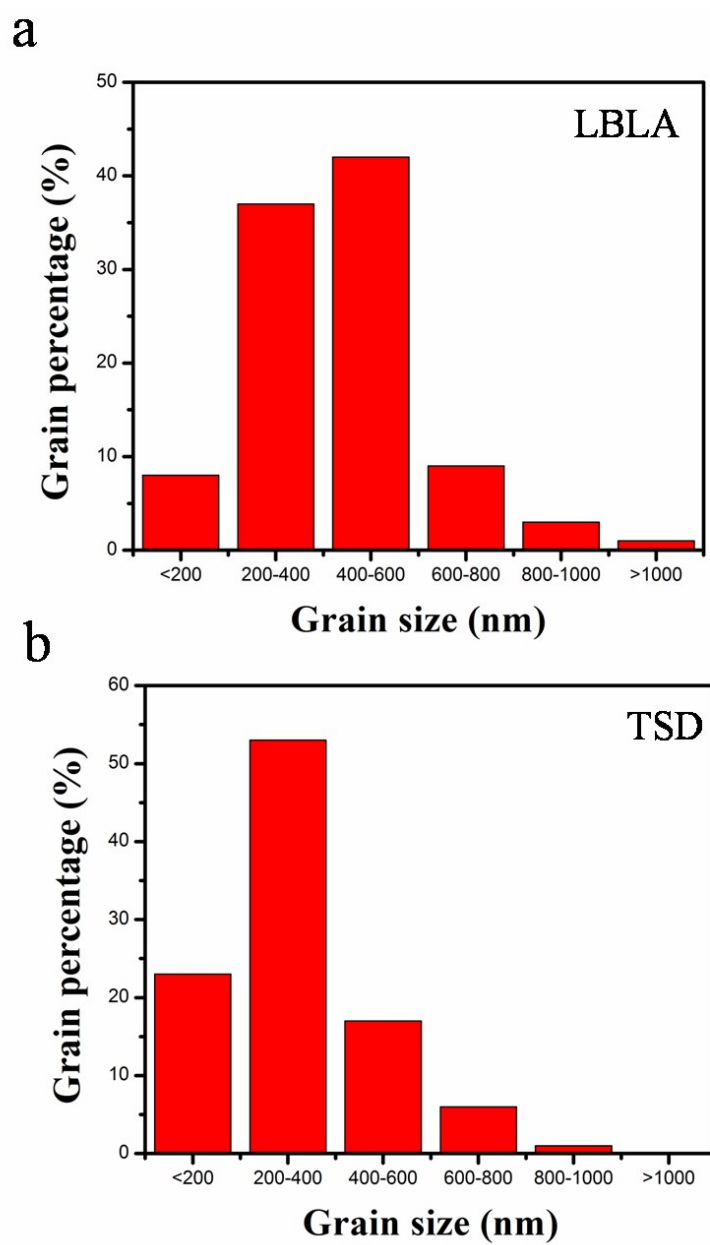


Figure S2. Statistical distribution diagrams of perovskite grain size for both LBLA (a) and TSD (b) methods.

Table S1. Fitting parameters of the corresponding PL decay curves

Perovskite film on	τ (ns)	β_I	χ
LBLA	25.6	1568.7	1.14
TSD	16.3	1147.3	1.06