

Supporting Information for

## Moth-eye Structured Polydimethylsiloxane Films for High-efficiency Perovskite Solar Cells

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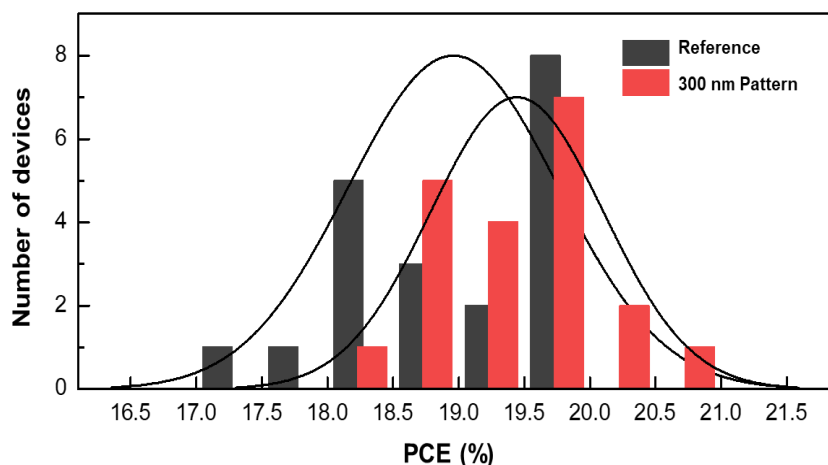
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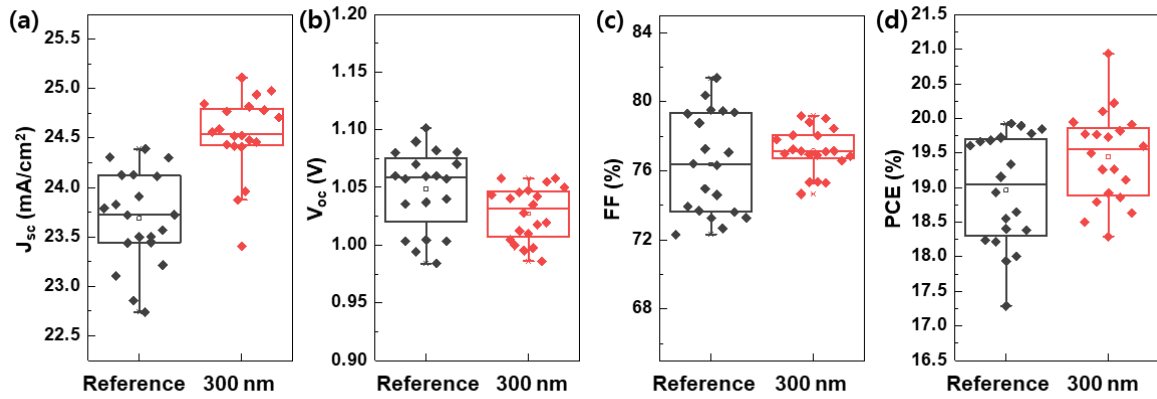
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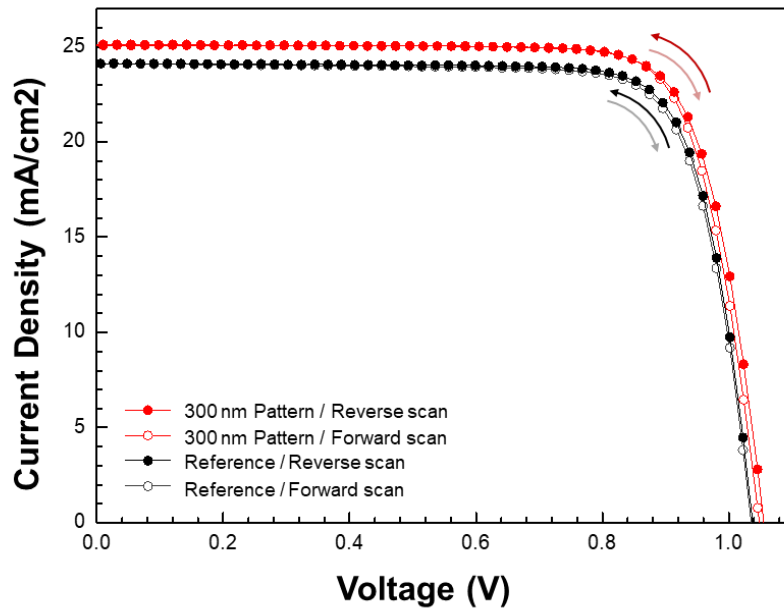
### Supplementary Figures



**Fig. S1** The PCE distribution histogram of the perovskite solar cell with and without moth-eye PDMS pads for 20 devices



**Fig. S2** Photovoltaic parameters (**a**  $J_{sc}$ , **b**  $V_{oc}$ , **c** FF, **d** PCE) distribution box chart of the perovskite solar cell with and without moth-eye PDMS pads for 20 devices



**Fig. S3** Comparison of hysteresis behavior for the perovskite solar cell with and without moth-eye PDMS pads by measuring reverse and forward scan of  $J$ - $V$  curves