[Supporting information]

**Efficiency enhancement by defect engineering in perovskite photovoltaic cells prepared by evaporated PbI$_2$/CH$_3$NH$_3$I multilayers**

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Figure S1. The photograph shows the change of color (a) before and (b) after thermal annealing of the thermally evaporated sample.
Figure S2. The $I-V$ characteristics of different types of devices measured in the dark.