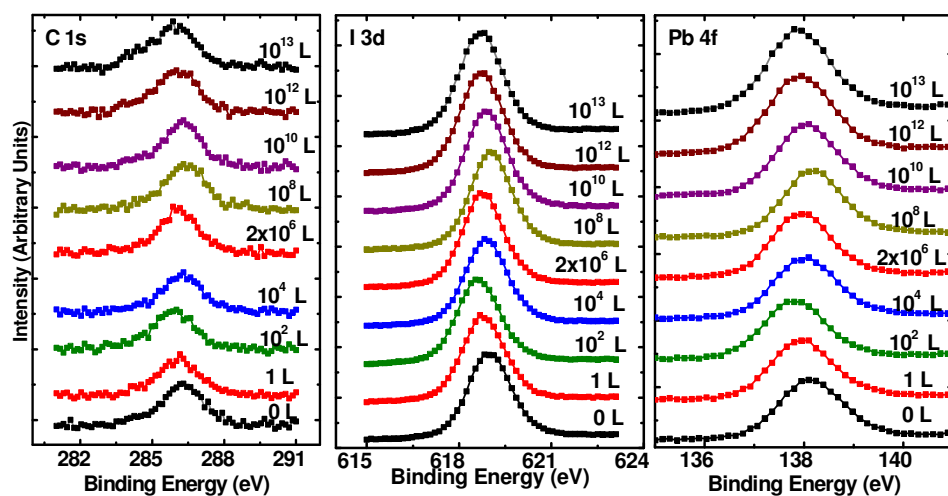


Degradation by Exposure of Co-Evaporated $\text{CH}_3\text{NH}_3\text{PbI}_3$ Thin Films

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1, Shown in Figure S1 are the C 1s, I 3d, and Pb 4f XPS spectra of the $\text{CH}_3\text{NH}_3\text{PbI}_3$ thin film after oxygen exposure. There is no obvious change.



2, Figure S2 gives the C 1s, N 1s, I 3d, Pb 4f, O 1s and VBM of $\text{CH}_3\text{NH}_3\text{PbI}_3$ thin

Films after The low pressure atmospheric air exposure. No obvious change was observed.

