

Supporting Information

Bidentate chelating ligands as effective passivating materials for perovskite light-emitting diodes

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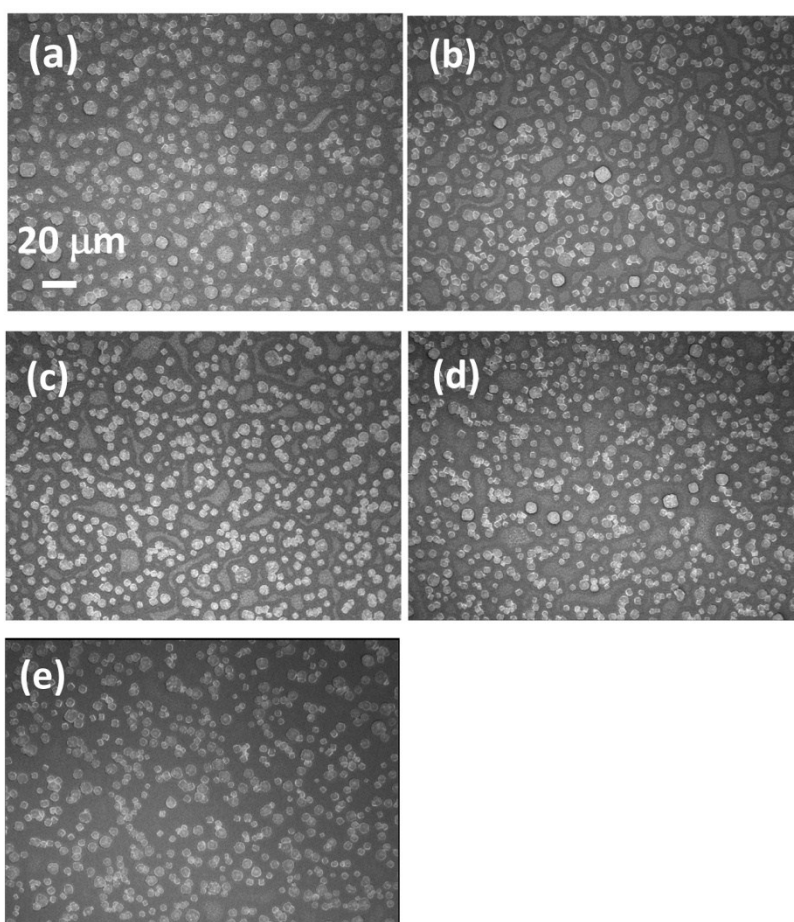


Figure S1. The SEM images of the $\text{CH}_3\text{NH}_3\text{PbBr}_3$ thin films after various surface treatments : (a) without any treatment; (b) 1,10-phenanthroline; (c) 4,4'-bipyridine; (d) pyridine; (e) Bphen.

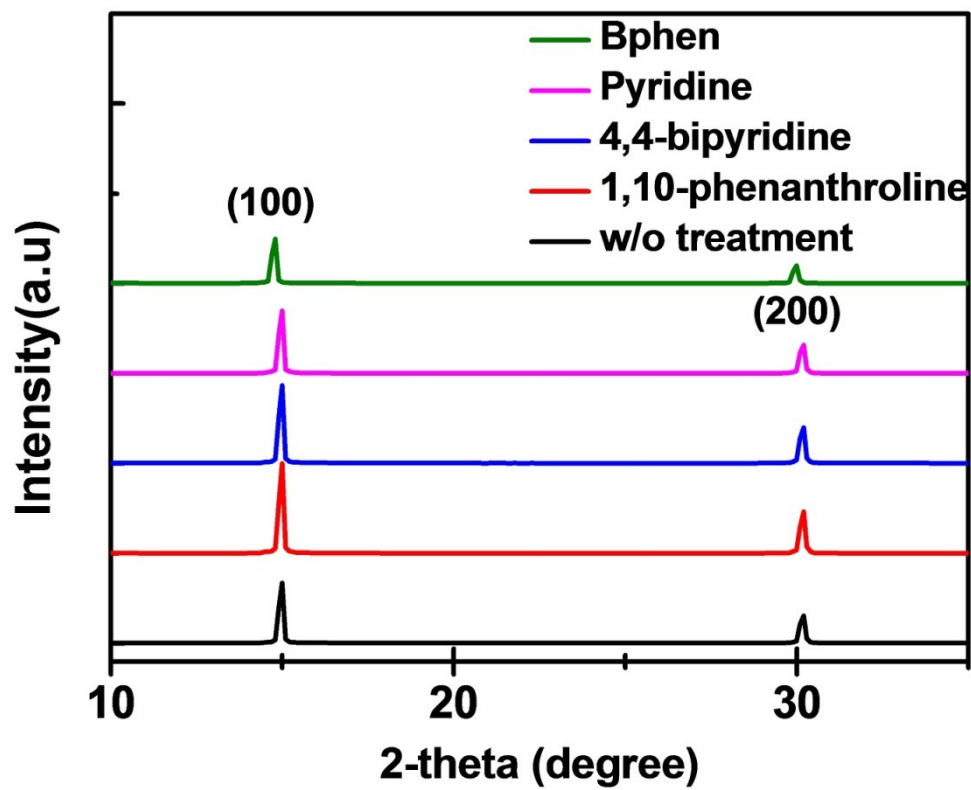


Figure S2. The magnified XRD images of the $\text{CH}_3\text{NH}_3\text{PbBr}_3$ thin films after various surface treatments.