

Support information

A mixed $(5\text{-AVA})_x\text{MA}_{1-x}\text{PbI}_{3-y}(\text{BF}_4)_y$ perovskite enhances photovoltaic performance of hole-conductor-free printable mesoscopic solar cells

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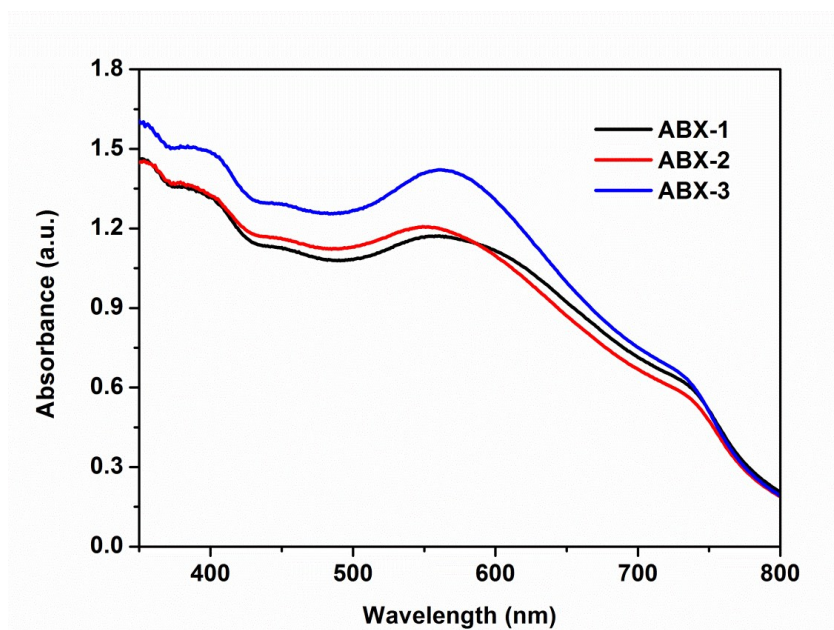


Figure S1 UV-vis absorption spectra of the mixed perovskites on mesoscopic TiO₂ films.

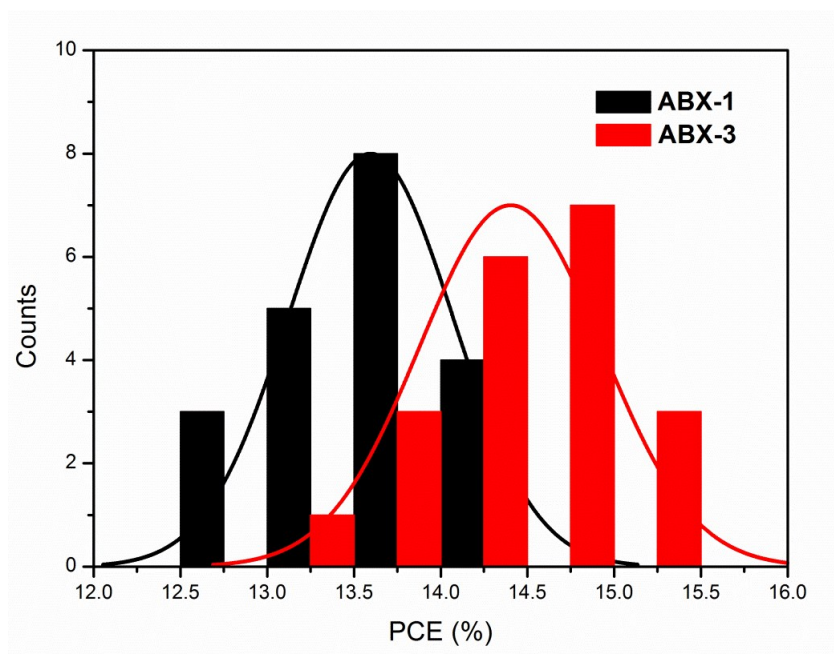


Figure S2 Histograms of PCE of the devices fabricated by mixed (5-AVA)_x(MA)_{1-x}PbI₃ or (5-AVA)_x(MA)_{1-x}PbI_{2.95}(BF₄)_{0.05} perovskite precursor solution (20 devices within each group).

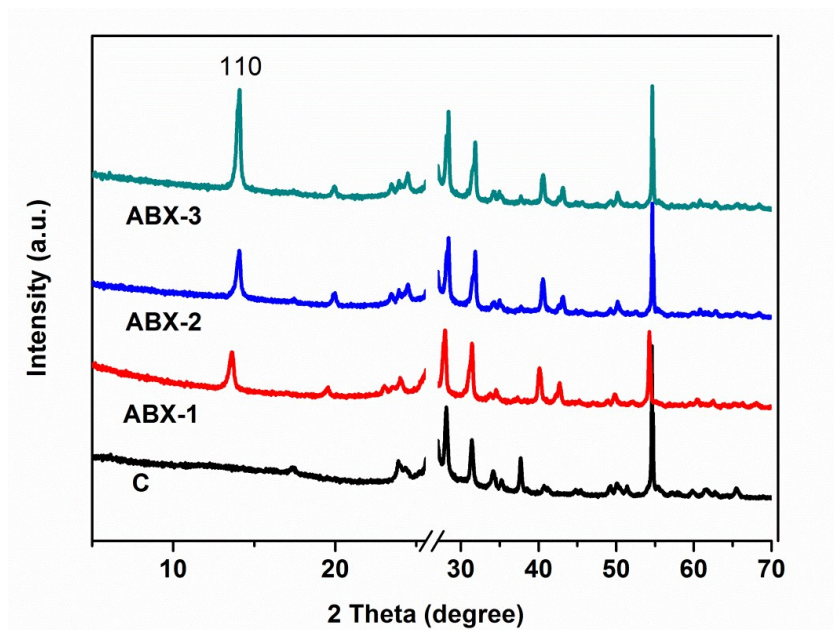


Figure S3 The XRD patterns of the full devices (above the carbon layer) infiltrated with the perovskites crystal.