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Optimization of the photoelectric properties and photo-stability of $CH_3NH_3PbBr_XI_3$ x films for efficient planar perovskite solar cells

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Highlight

- 1, The phase segregation happened in the CH₃NH₃PbBr_xI_{3-x} films under illumination.
- 2, The instability of the CH₃NH₃PbBr_xI_{3-x} films under illumination was adverse to the performance and stability of the corresponding devices.
- 3, The phase segregation in CH₃NH₃PbBr_xI_{3-x} films with moderate bromine content can be suppressed.
- 4, The stable PCE of the devices based on mole ratio of 3:7 under illumination can reach 13.8%.

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