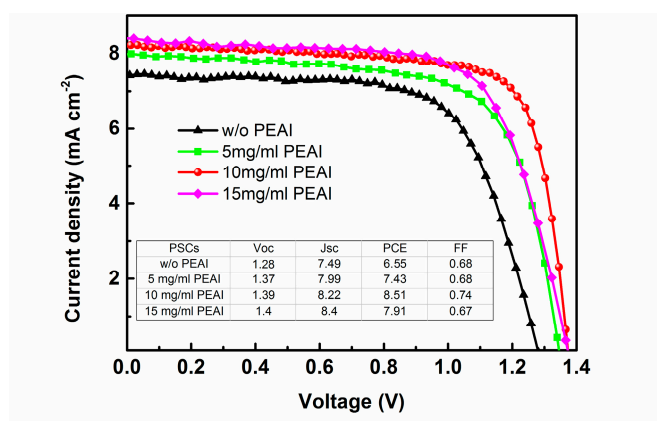
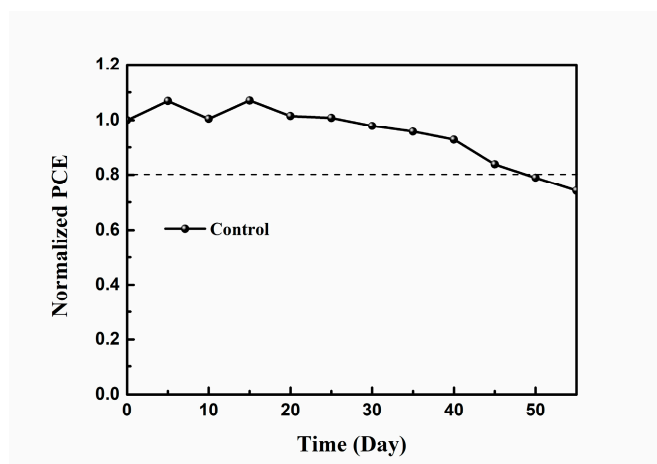


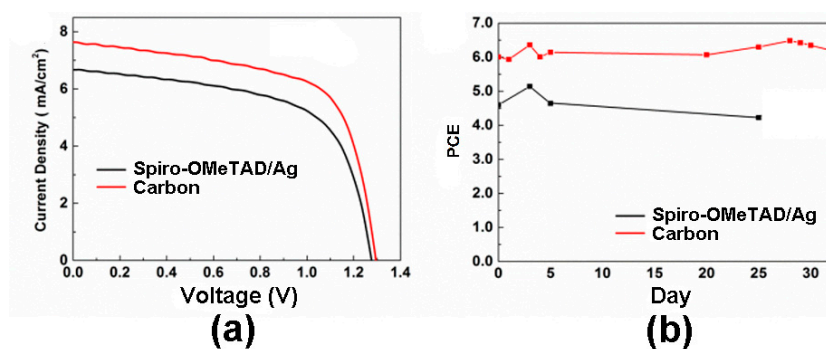
Supplementary Figure S1. Schematic diagram of multi-step spin-coating process to prepare CsPbBr₃ films



Supplementary Figure S2. J-V characteristics of various CsPbBr₃ PSCs under illumination (AM 1.5 G, 100 mW cm⁻²) undoped and doped with 5, 10 and 15 mg/mL PEAI, measured at the maximum power point.



Supplementary Figure S3. Storage stability (in the ambient air, without encapsulation) of CsPbBr₃ PSCs without PEAI-doping.



Supplementary Figure S4. (a) J–V characteristics and (b) storage stability (in the ambient air, without encapsulation) of CsPbBr₃ PSCs with different electrode.