

# Supporting Information

## Charge-Transporting-Layer-Free, Vacuum-Free, All-Inorganic CsPbIBr<sub>2</sub> Perovskite Solar Cells Via Dipoles-Adjusted Interface

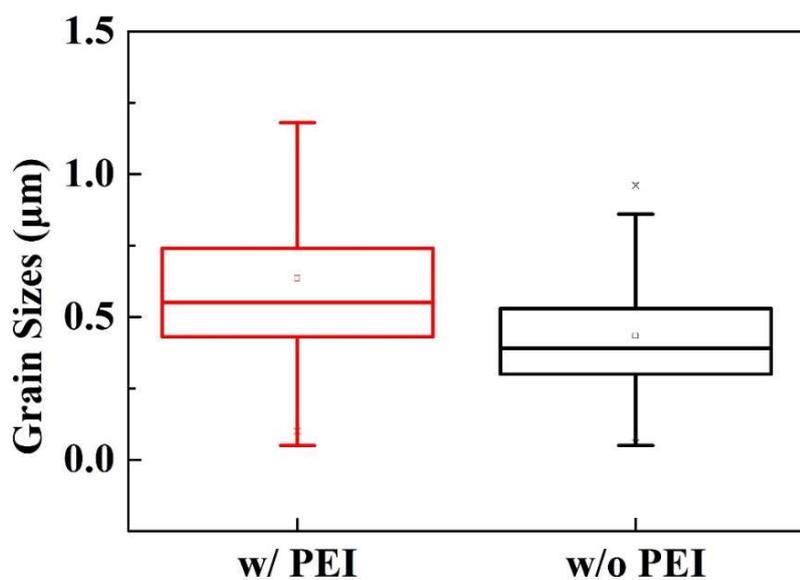
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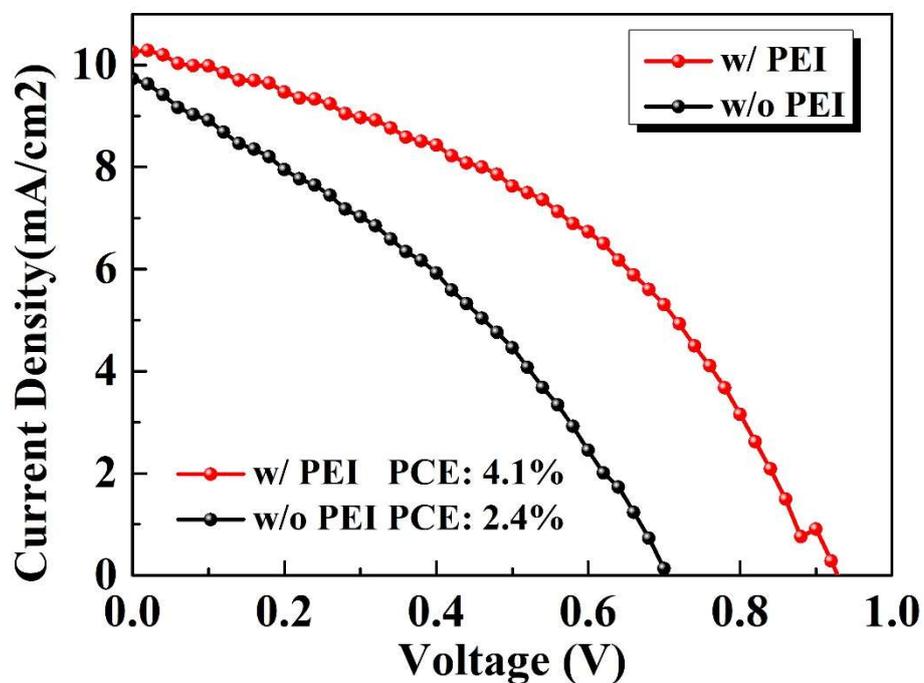
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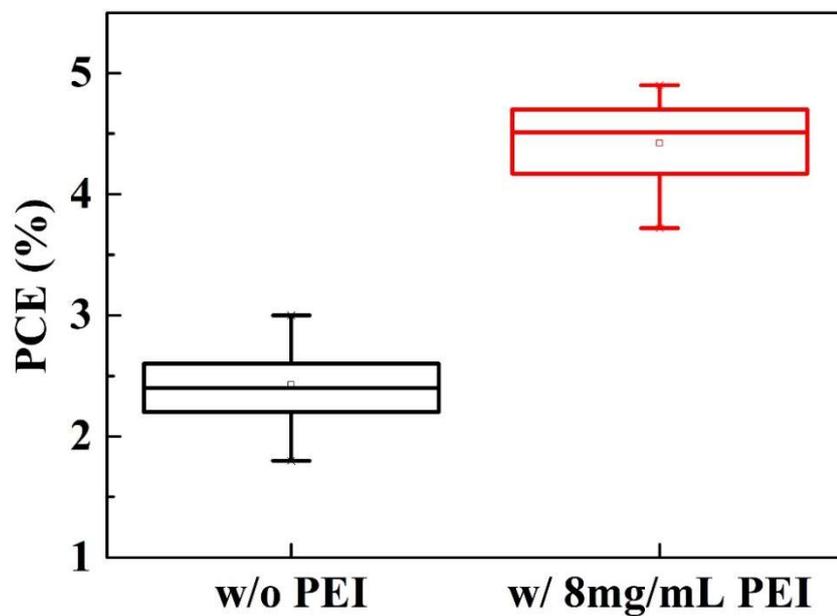
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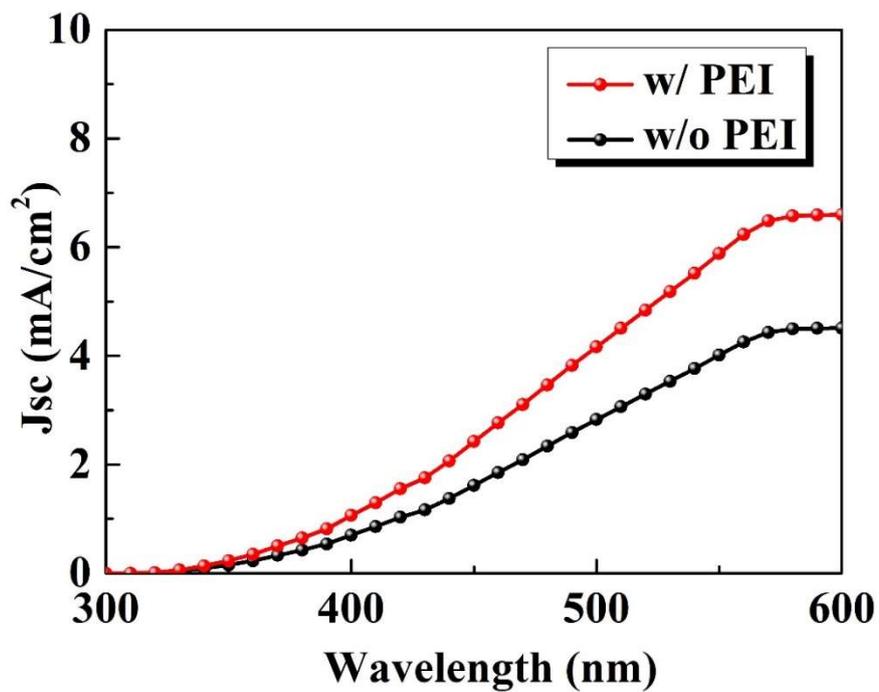
**Figure S1.** The statistics of grain sizes for the CsPbIBr<sub>2</sub> films without and with PEI modification (8 mg/mL), respectively.



**Figure S2.** The J-V curves recorded under forward scan of voltages from -0.1 to 1.5 V of the CsPbIBr<sub>2</sub> PSCs without and with PEI modification (8 mg/mL), respectively.



**Figure S3.** The statistics PCEs of 24 independent CsPbIBr<sub>2</sub> PSCs fabricated without and with PEI modification (8 mg/mL), respectively.



**Figure S4.** Integrated J<sub>sc</sub> results from the EQE spectra of the CsPbIBr<sub>2</sub> without and with PEI modification (8 mg/mL), respectively.