

Supplementary Materials

Ambient-Processed, Additive-Assisted CsPbBr₃ Perovskite Light-Emitting Diodes with Colloidal NiO_x Nanoparticles for Efficient Hole Transporting

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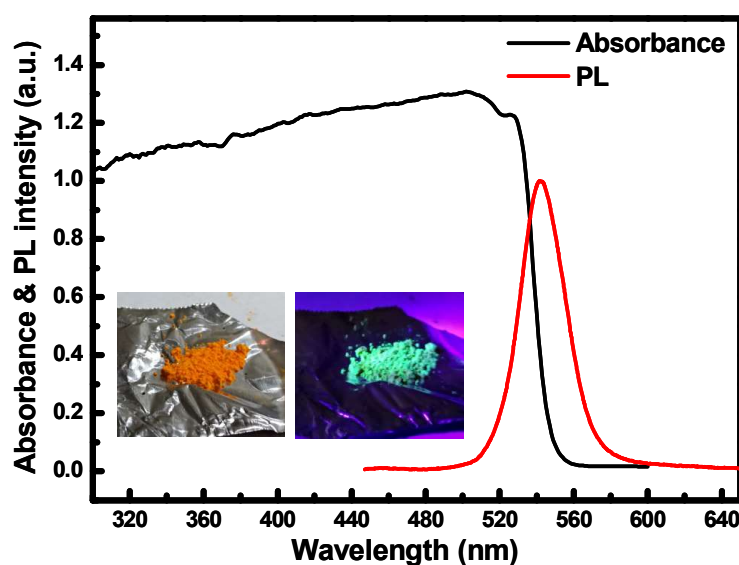


Figure S1. Absorption and photoluminescence (PL) spectra of the synthesized CsPbBr₃ powder. Insets are the photographs of CsPbBr₃ powder under white and UV light irradiation, respectively.

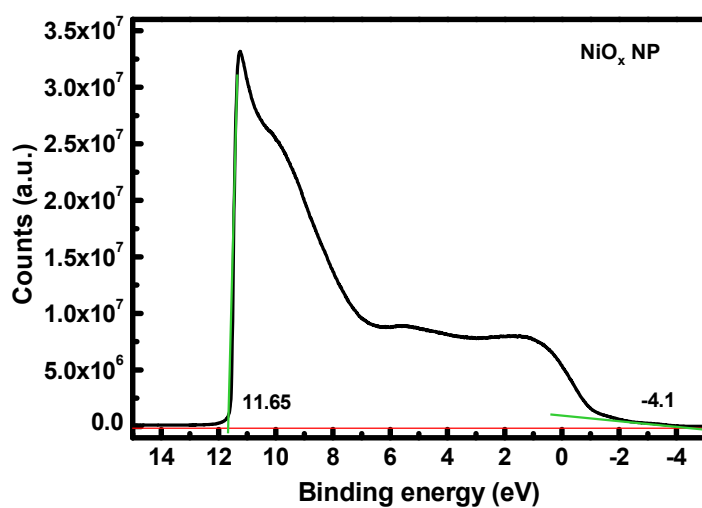


Figure S2. UPS spectra of the NiO_x NP HTL. According to the cutoff values, the valence band maximum (E_v) of NiO_x NP HTL can be determined as 5.47 eV.