

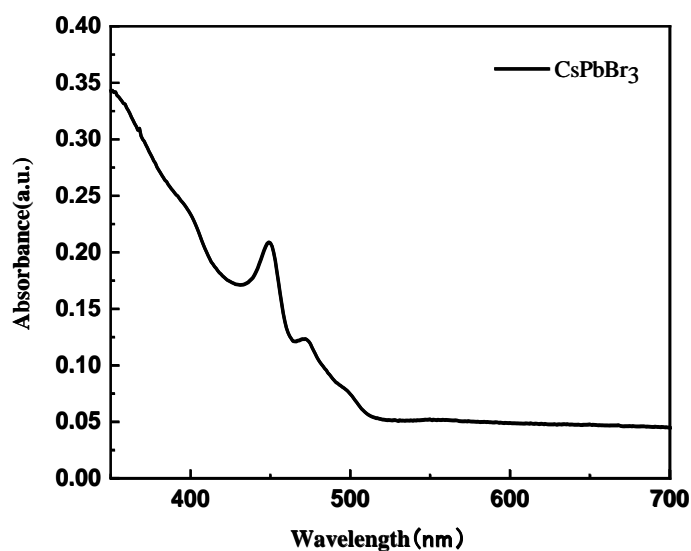
# A Light/Pressure Bifunctional Electronic Skin Based on a Bilayer Structure of PEDOT:PSS-Coated Cellulose Paper/CsPbBr<sub>3</sub> QDs Film

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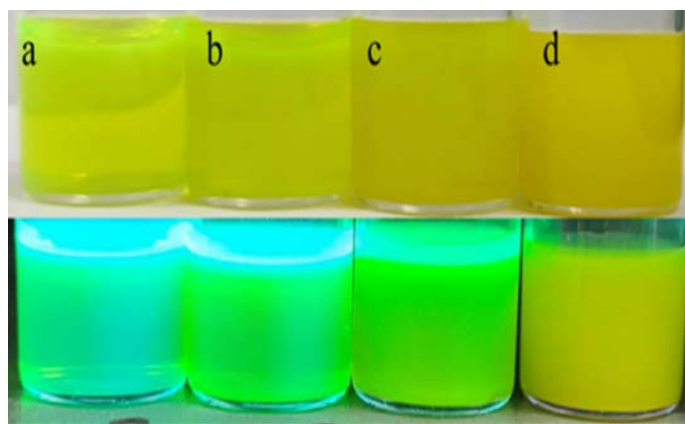
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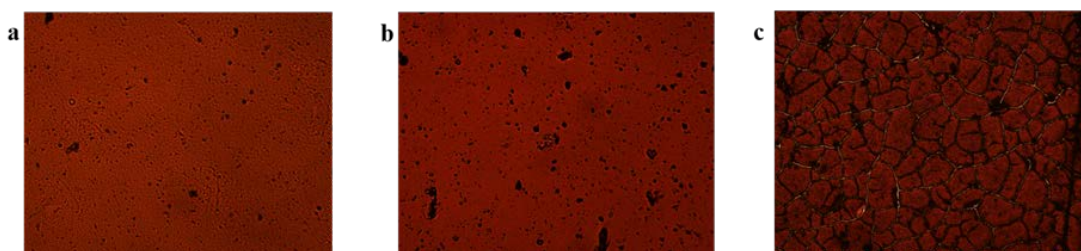
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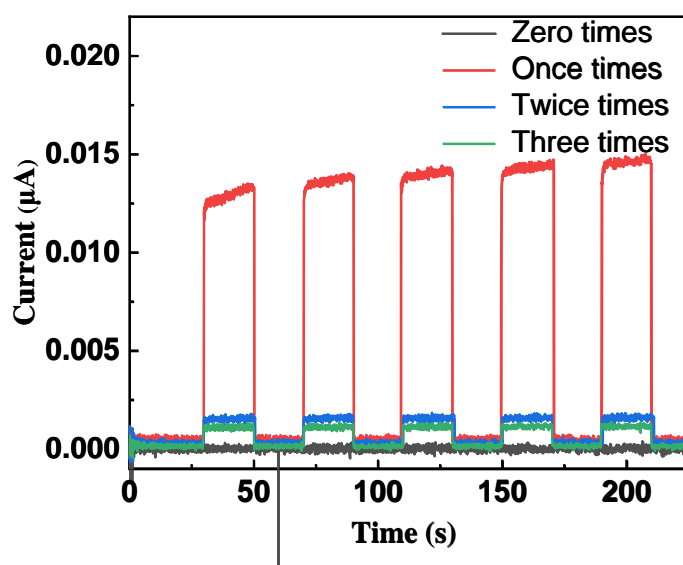
**Figure S1.** The absorption spectrum of CsPbBr<sub>3</sub> QDs in n-hexane solution.



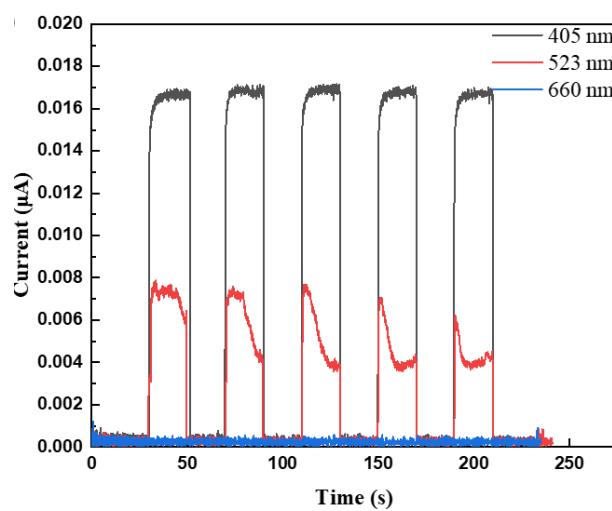
**Figure S2.** Solutions of CsPbBr<sub>3</sub> QDs washed by different solvents under fluorescent lamps (upper photos) and under 365 nm UV lamps (lower photos): (a) without washing; (b) washed by ethyl acetate; (c) washed by isopropanol; (d) washed by acetone.



**Figure S3.** Microscopic morphologies of photodetectors washed by different solvents: (a) ethyl acetate, (b) isopropyl alcohol, (c) acetone (160x magnification).



**Figure S4.** I-t curves of photodetectors under different washing times (405 nm, 10v) .



**Figure S5.** I-t curves of photodetectors under different wavelengths (40 mW/cm<sup>2</sup>, 10v).

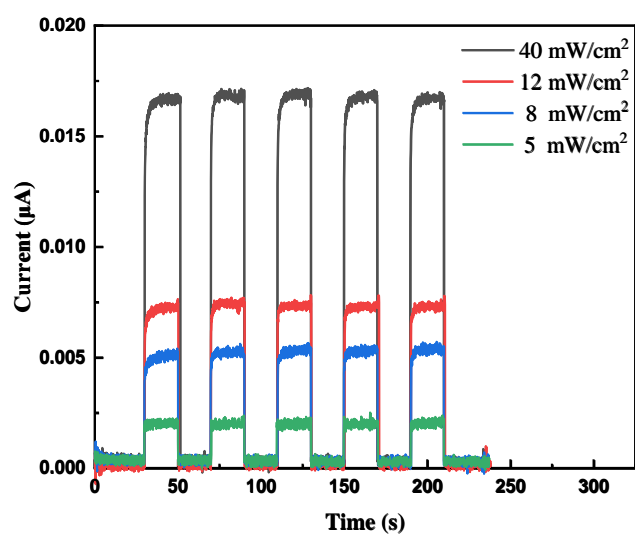


Figure S6. I-t curves of photodetectors under different optical power density (405 nm, 40  $\text{mW}/\text{cm}^2$ ).

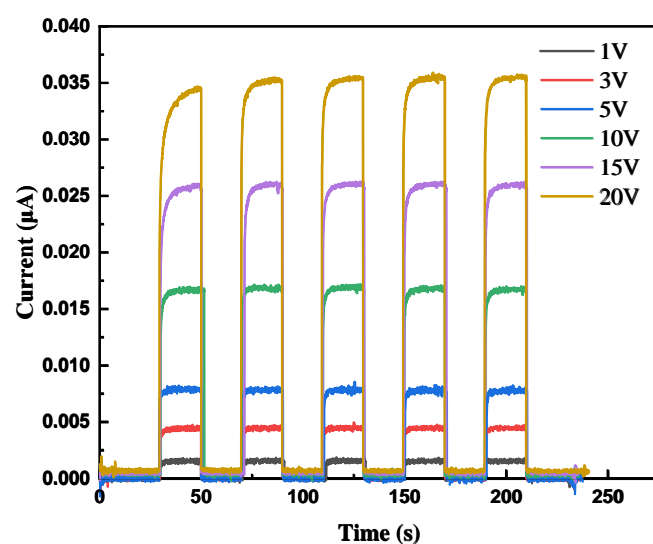
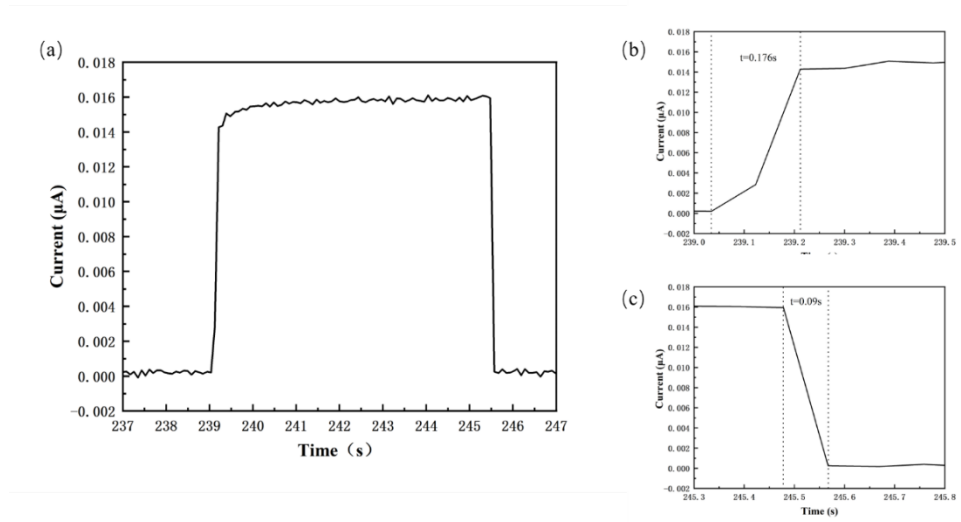
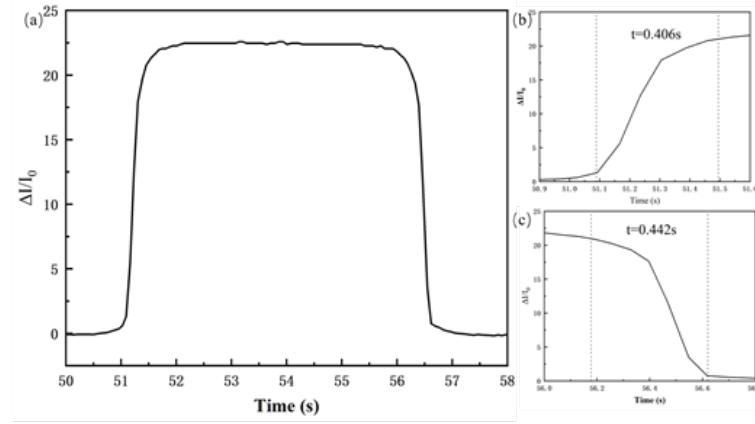


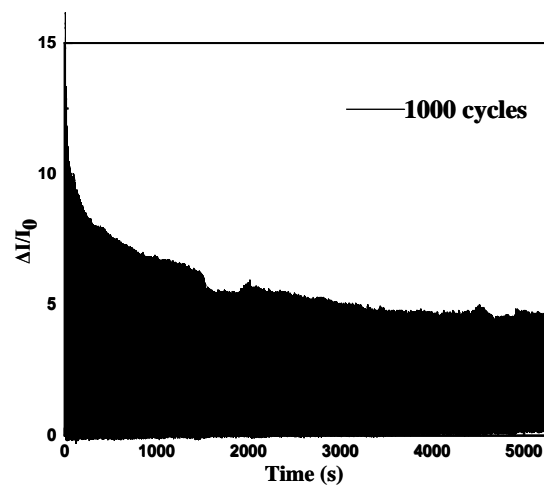
Figure S7. I-t curves of photodetectors at different voltages (405 nm, 10v).



**Figure S8.** One cycle of photodetector and its response time (b is light on and c is light off) .



**Figure S9.** One cycle of pressure sensor and its response time (b is pressure on and c is pressure off) .



**Figure S10.**  $\Delta I/I_0$  vs  $t$  curves of the pressure sensor (1000 cycles); all applied bias is 1 v.