

Supporting Information

Highly improved photocurrent of flexible MoS₂ photodetector via backside Al metal mirror and its in- and out-folding

Hyewon Yoon,¹ and Seongin Hong^{1, a)}

¹*Department of Physics, Gachon University, Seongnam 13120, Republic of Korea*

^{a)} Author to whom correspondence should be address: seongin@gachon.ac.kr

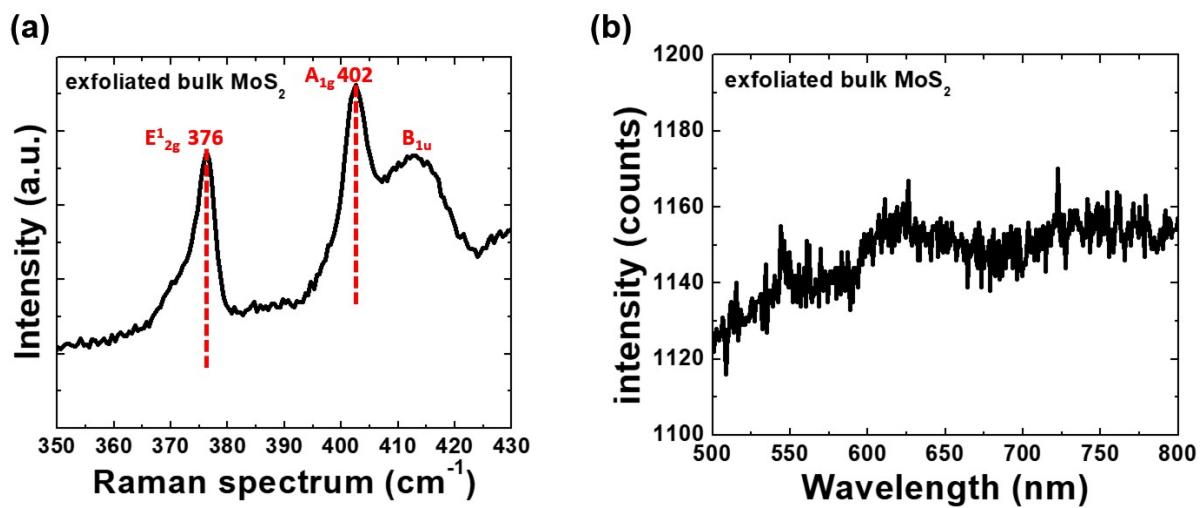


Fig. S1. (a) Raman and (b) PL spectrum of exfoliated bulk MoS₂.

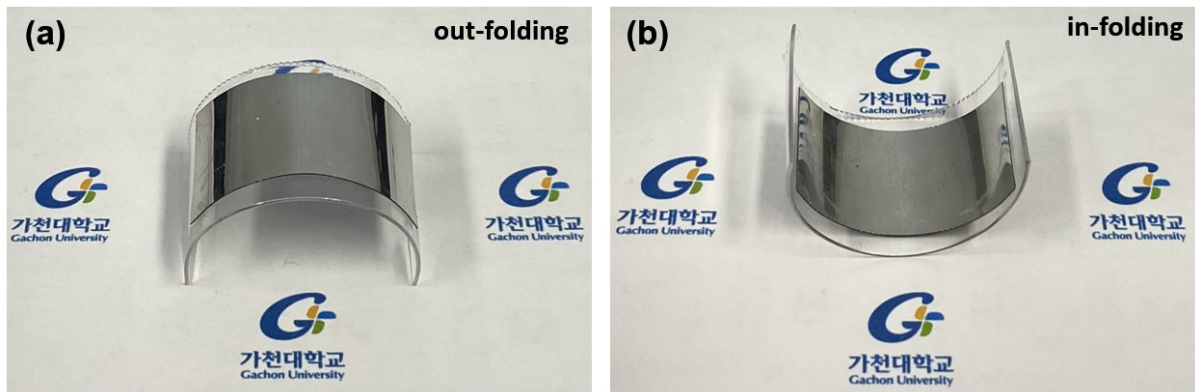


Fig. S2. Photographs of (a) out- and (b) in-folding state of Al metal mirror without MoS₂ photodetector.

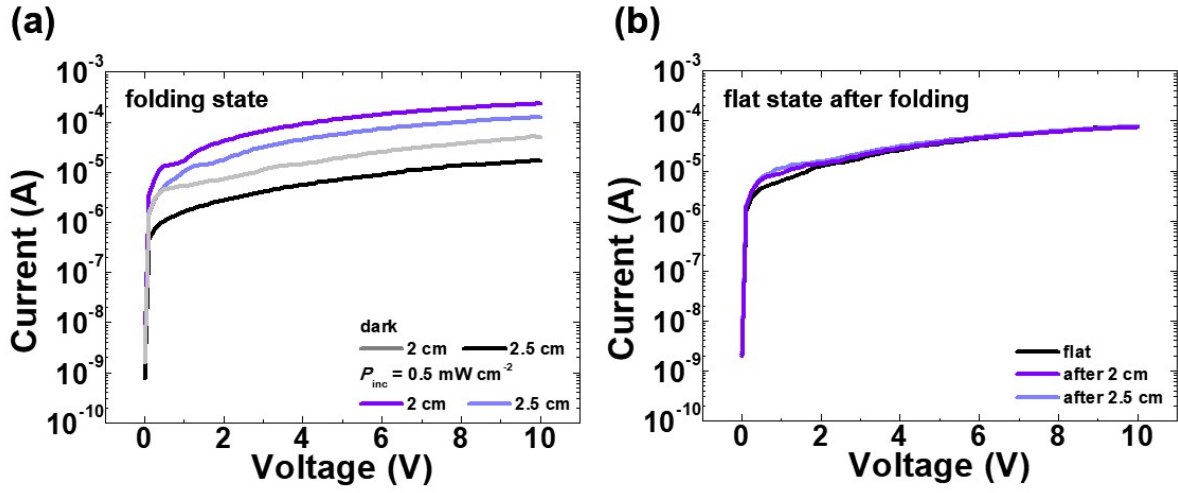


Fig. S3. I - V characteristic of flexible MoS₂ photodetector with Al metal mirror (a) at different folding diameters ($d = 2 \text{ cm}$ and 2.5 cm) under dark and light illumination at P_{inc} of 0.5 mW cm^{-2} (λ_{ex} of 406 nm) and (b) at flat state after folding different diameters.