

Supporting Information

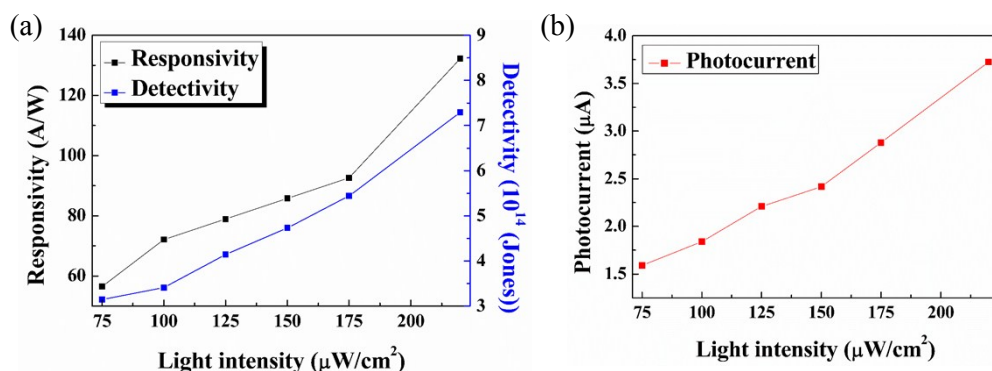


Fig. S1. (a) Responsivity and detectivity, and (b) photocurrent as a function of light intensity (75, 100, 125, 150, 175, 220 $\mu\text{W}/\text{cm}^2$) at voltage of 10 V.

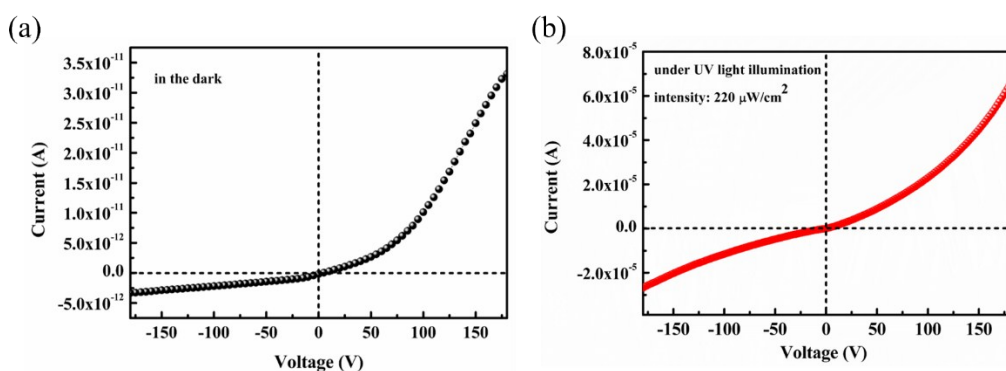


Fig. S2. The linear-scale I-V characteristic of the diode at biases from -180 V to 180 V (a) in the dark and (b) under UV light illumination.