Supporting Information

Single-Crystalline Bismuth Sulfide Microrods for Efficient Visible Light Photodetection

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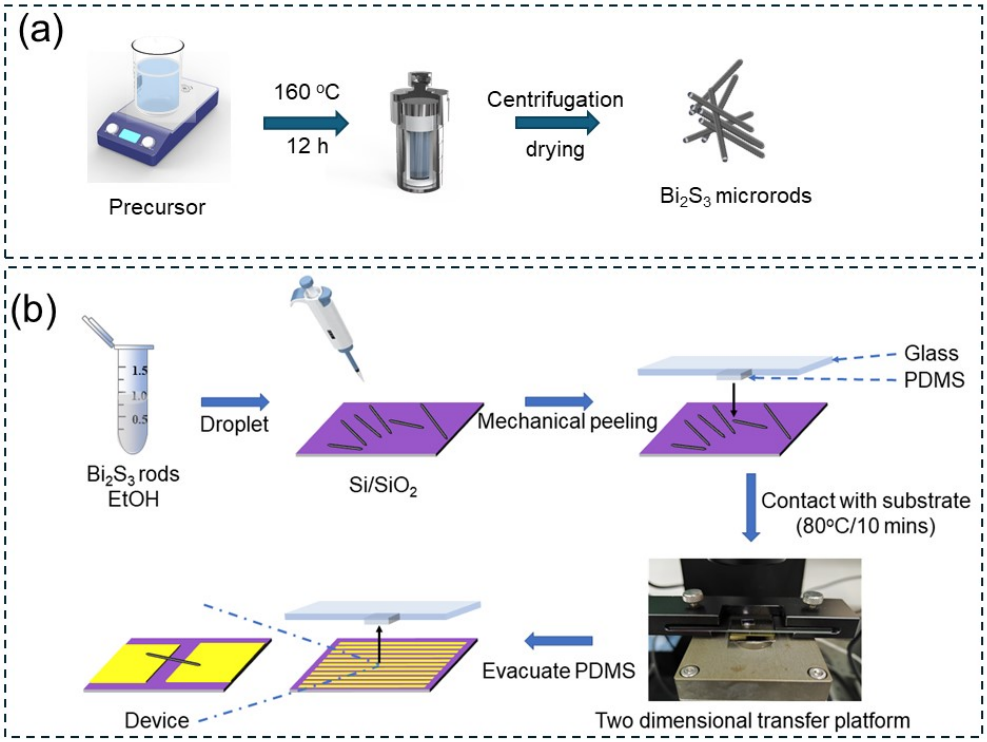

Figure S1. Schemes of the synthesis procedure of Bi_2S_3 microrods (a) and (b) the fabrication process of the individual Bi_2S_3 microrod-based photodetector device.

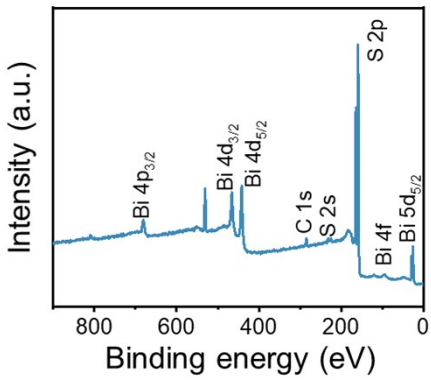

Figure S2. Survey XPS spectrum of Bi_2S_3 sample.

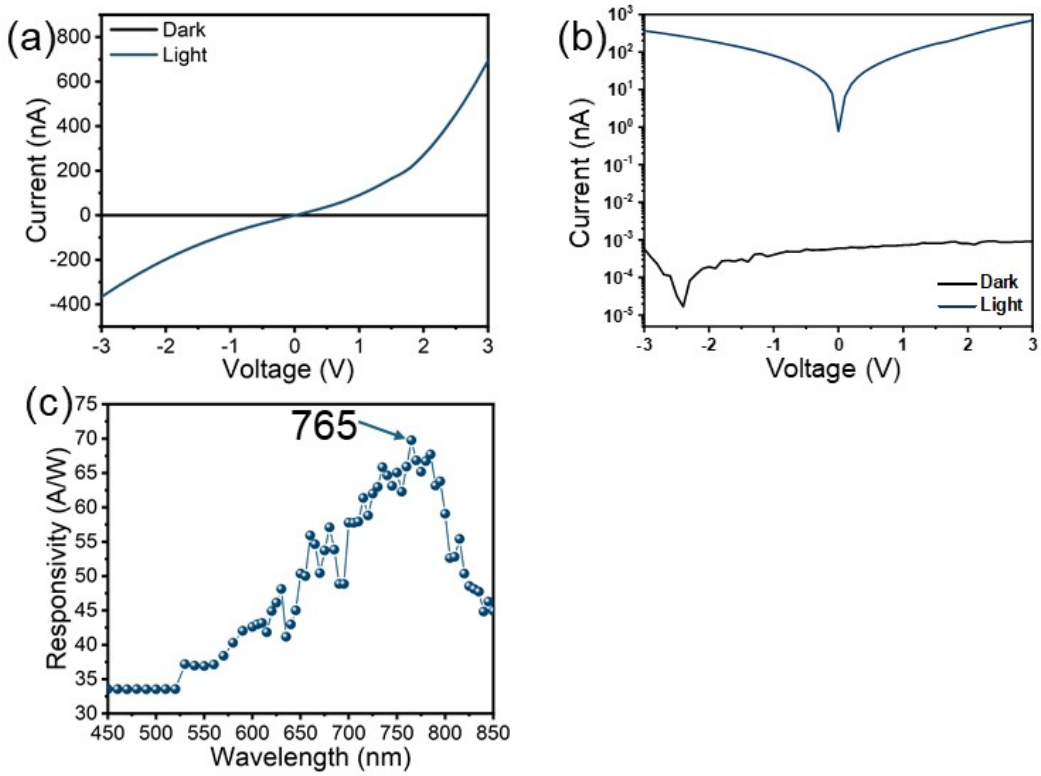

Figure S3. (a) Current-voltage (I-V) curve of the Bi_2S_3 microrod device tested under dark and natural composite light, respectively. (b) logarithmic Y-axis curve of (a). (c) Responsivity curve of the Bi_2S_3 microrod device measured under monochromatic light illumination, covering a spectral range from 450 to 850 nm, at a constant light power density of 10 μW/cm^2.