

Ultraviolet/visible photodetectors with ultrafast, high photosensitivity based on 1D ZnS/CdS heterostructures

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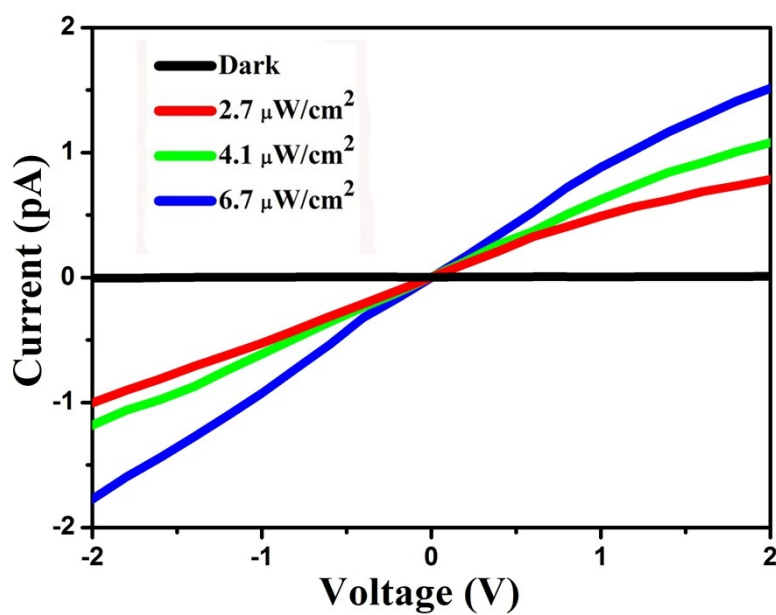


Fig. S1 I-V test result of the ZnS nanobelt based photodetector under 300 nm UV light with various power intensities and in dark.

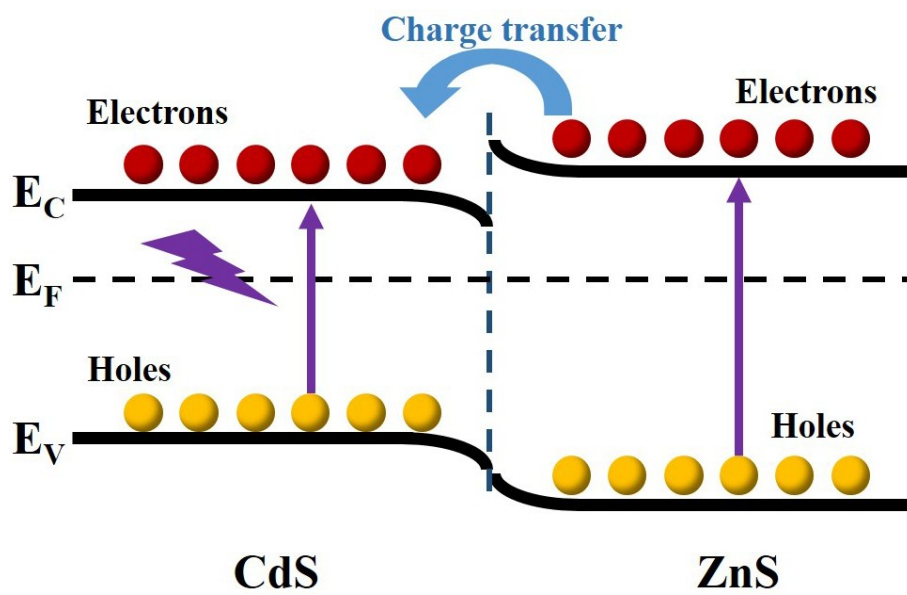


Fig. S2 Schematic energy band diagram for ZnS/CdS heterostructures under light illumination.

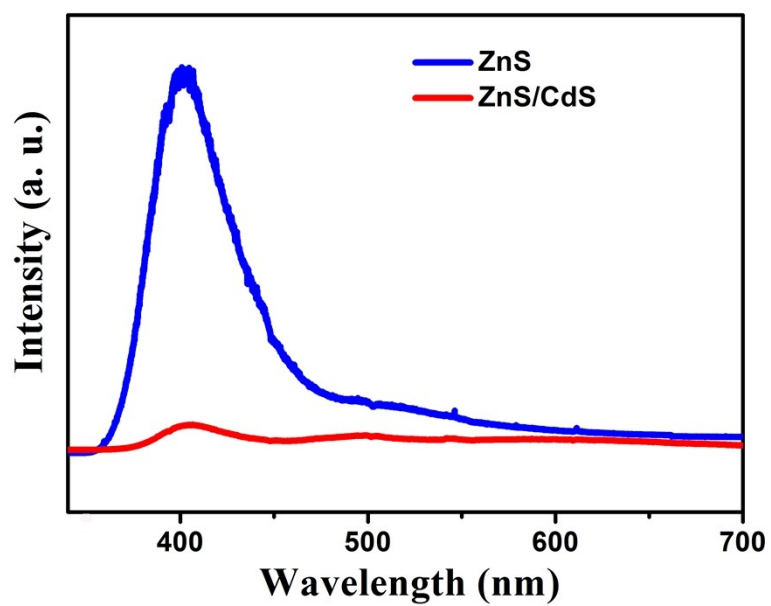


Fig. S3 Photoluminescence spectra of ZnS nanobelts, and ZnS/CdS 1D heterostructure.

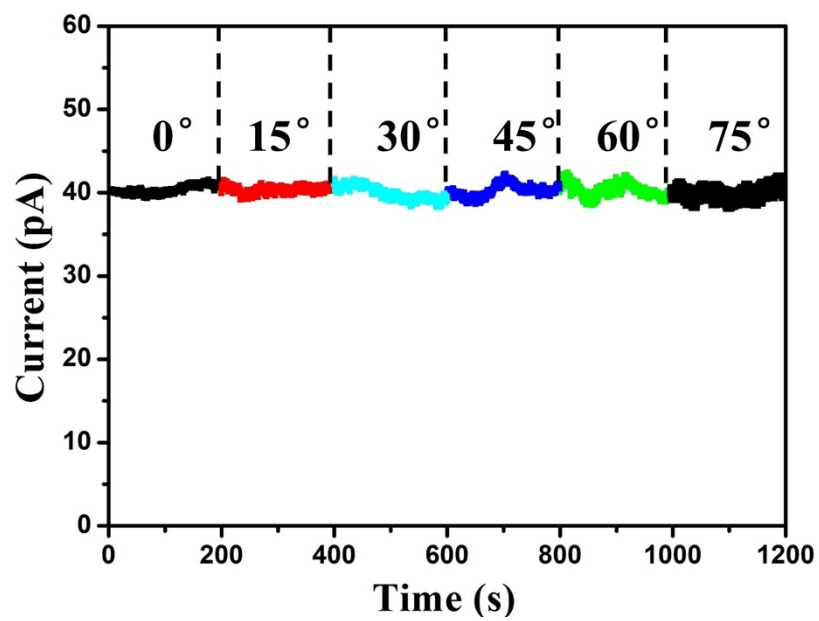


Fig. S4 I-T curves of the flexible device corresponding to various bending cycles under 300 nm UV light.