

Supporting Information

Reducing Noise Current in Exfoliated WS₂ Nanosheets using Ultrananocrystalline Diamond Substrate and Their Enhanced NIR Photodetection Properties

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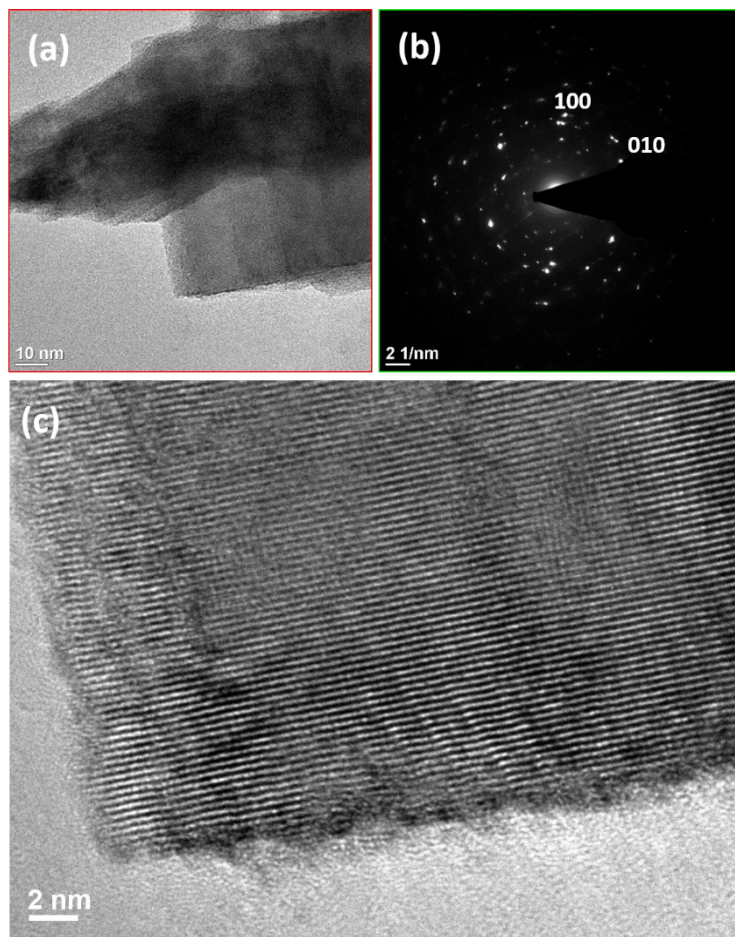


Fig. S1 HRTEM and SAED pattern of WS₂ nanosheets

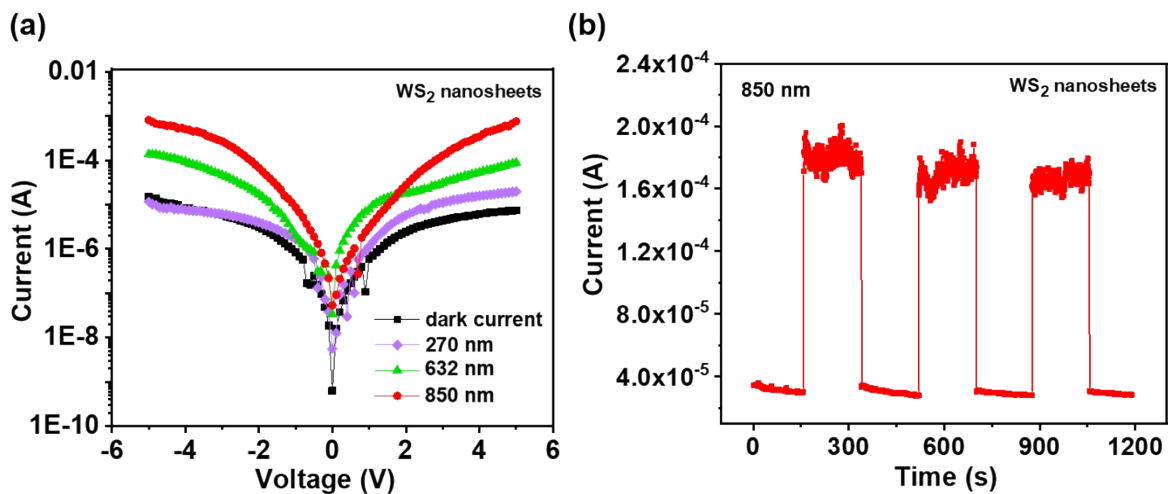


Fig. S2 Photodetection properties of WS₂ nanosheets

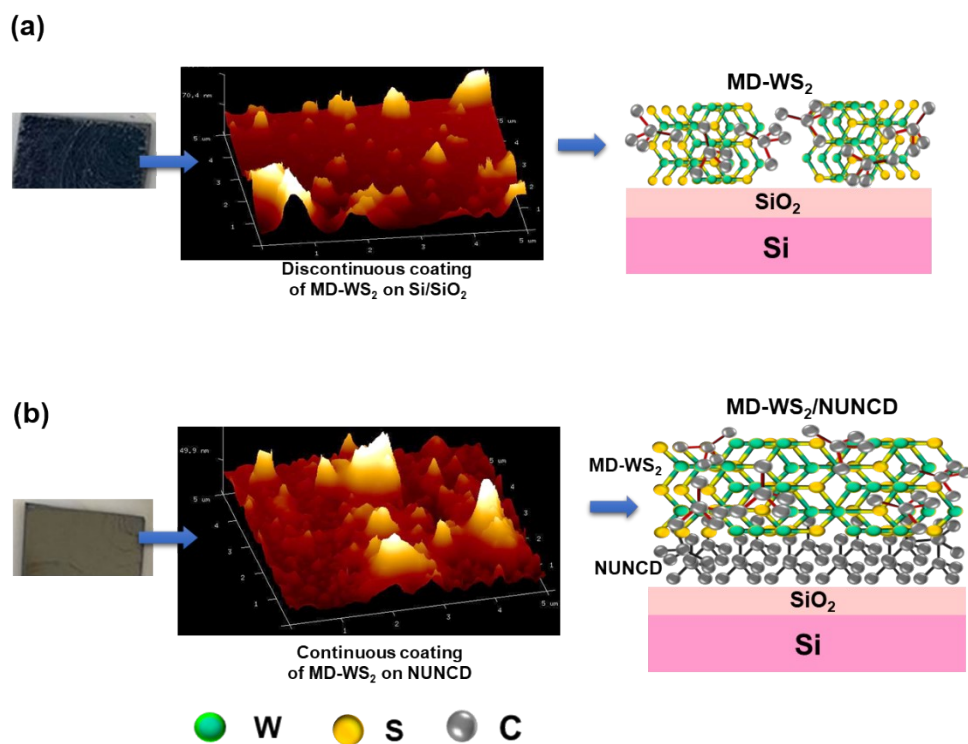


Fig.S3 AFM image and photo-image with the schematic illustration of MD-WS₂ nanosheets coated on (a) Si/SiO₂ substrate and (b) NUNCD substrate.

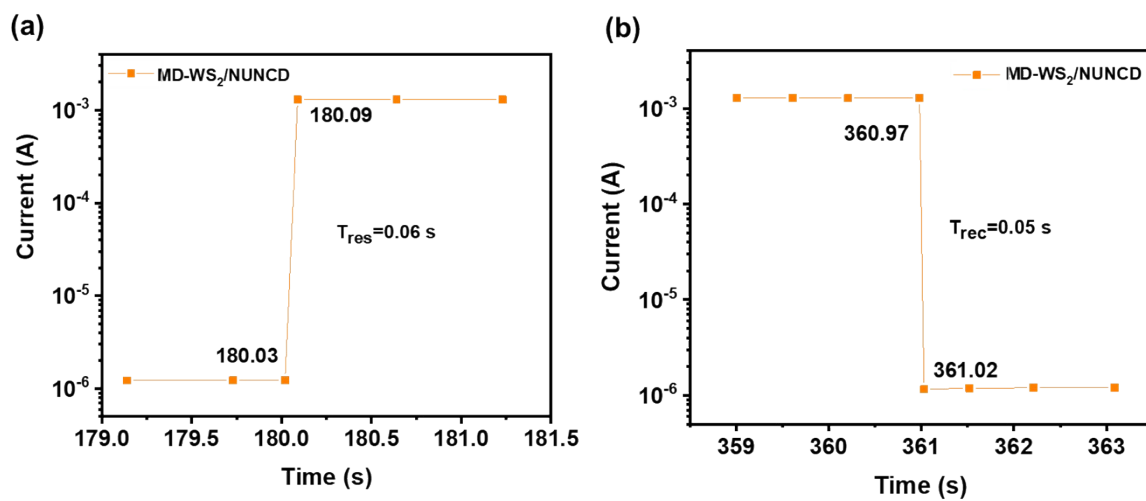


Fig. S4 I-T characteristics (a) Response and (b) Recovery times of MD-WS₂/NUNCD