

## Supporting Information

### 2D WS<sub>2</sub> co-catalysts induce the growth of CdS and enhance the photocatalytic performance

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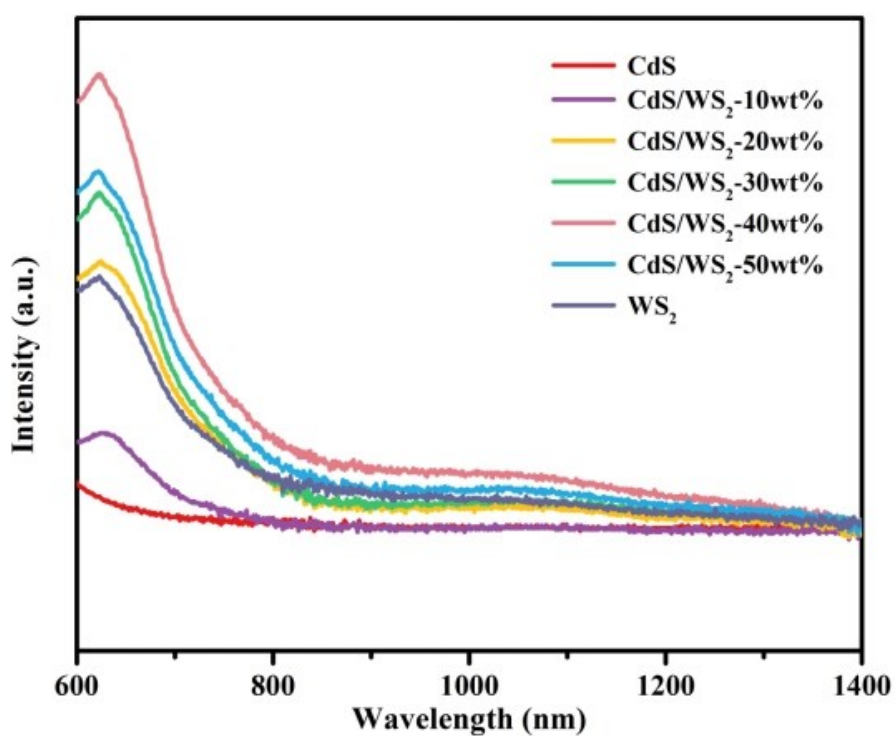
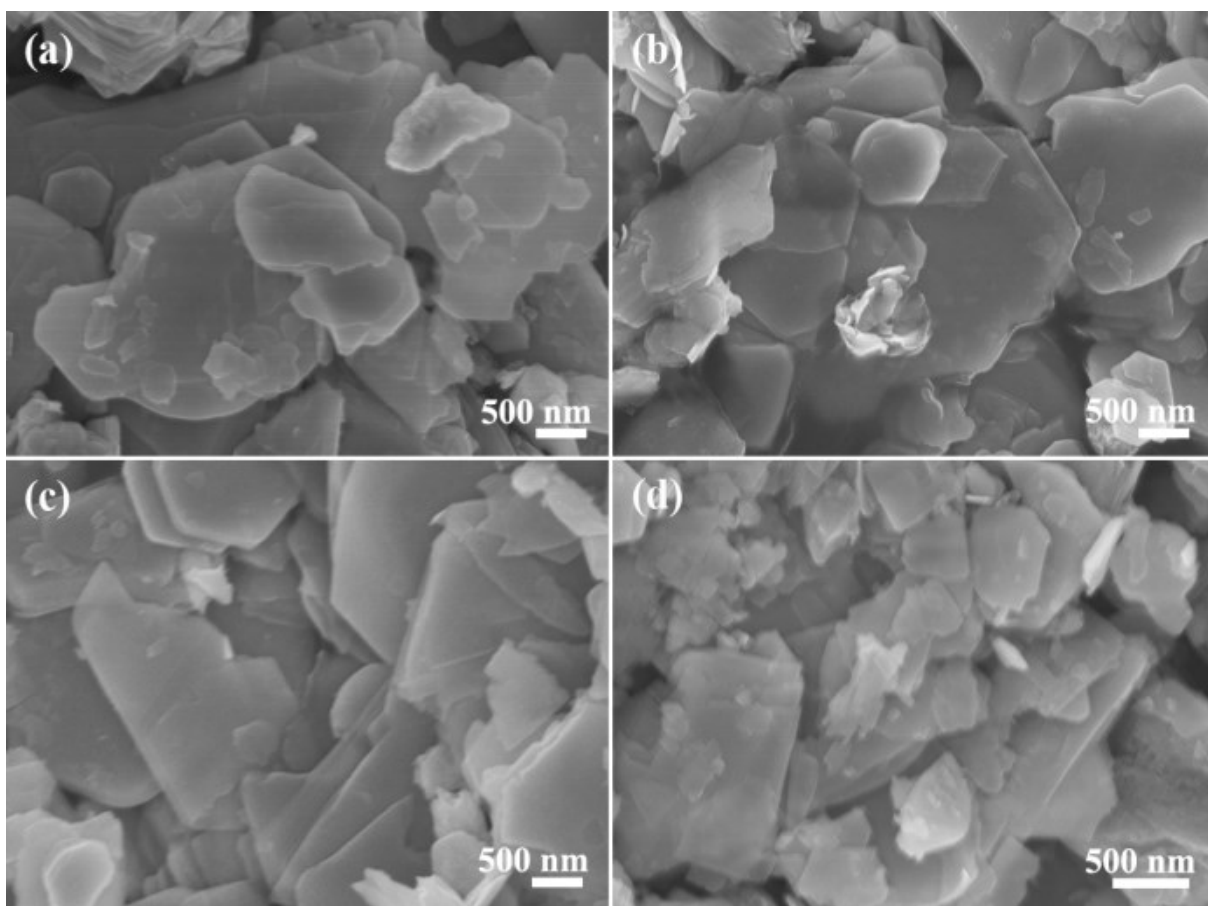


Figure S1 UV-vis of CdS nanoparticles and as-obtained products.



**Figure S2** SEM images of ultrasonic WS<sub>2</sub> (a) 3 h. (b) 6 h. (c) 9 h. (d) 12 h.