

## Supplementary Information

### CdS-decorated porous anodic SnO<sub>x</sub> photoanodes with enhanced performance under visible light

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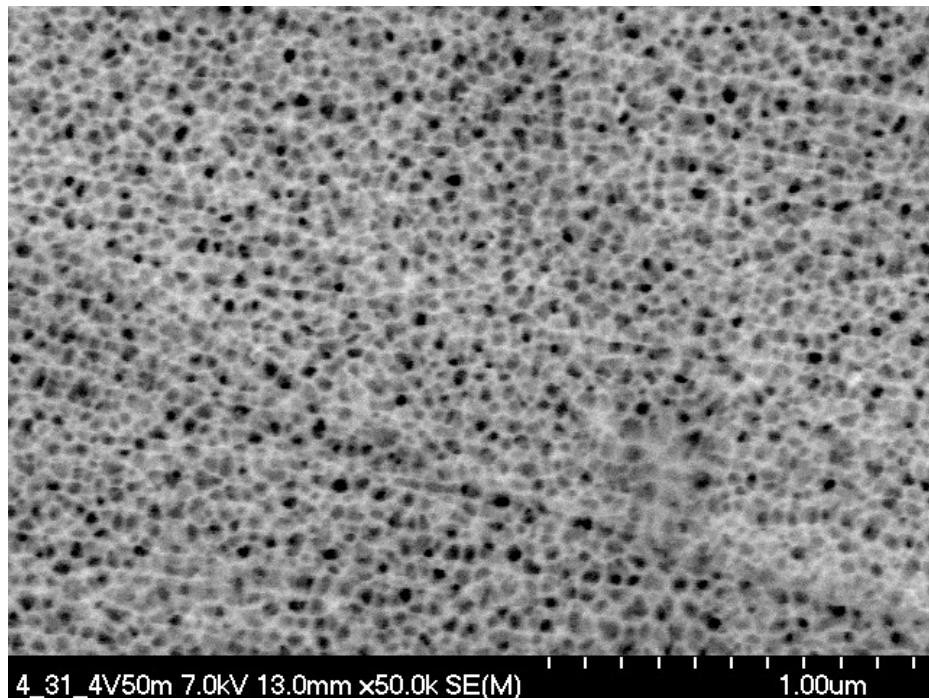


Figure S1. FE-SEM image of the as-anodized SnO<sub>x</sub> layer before deposition of CdS.

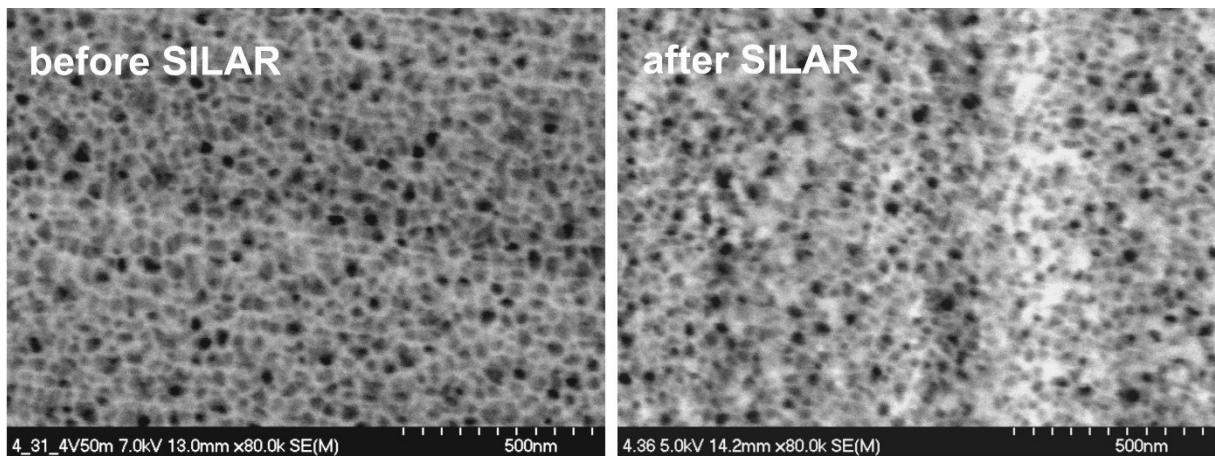


Figure S2. Higher magnification FE-SEM image of as-anodized  $\text{SnO}_x$  (left) and  $\text{SnO}_x$  modified with  $\text{CdS}$  after thermal treatment (right).

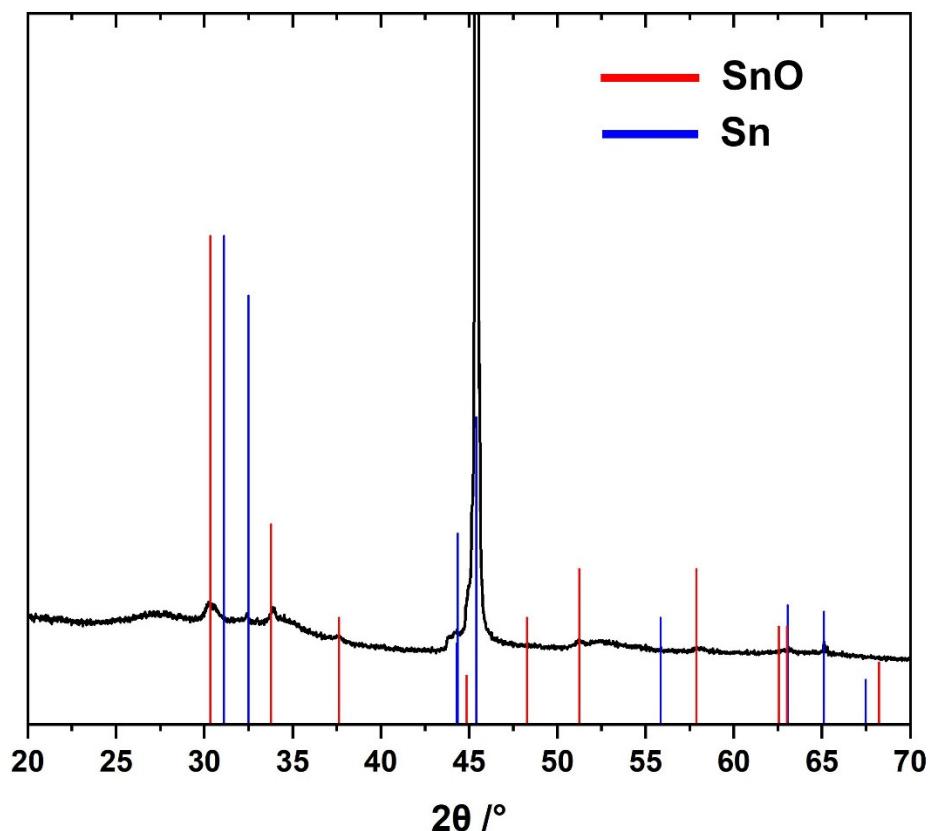


Figure S3. XRD pattern of the a/a sample.

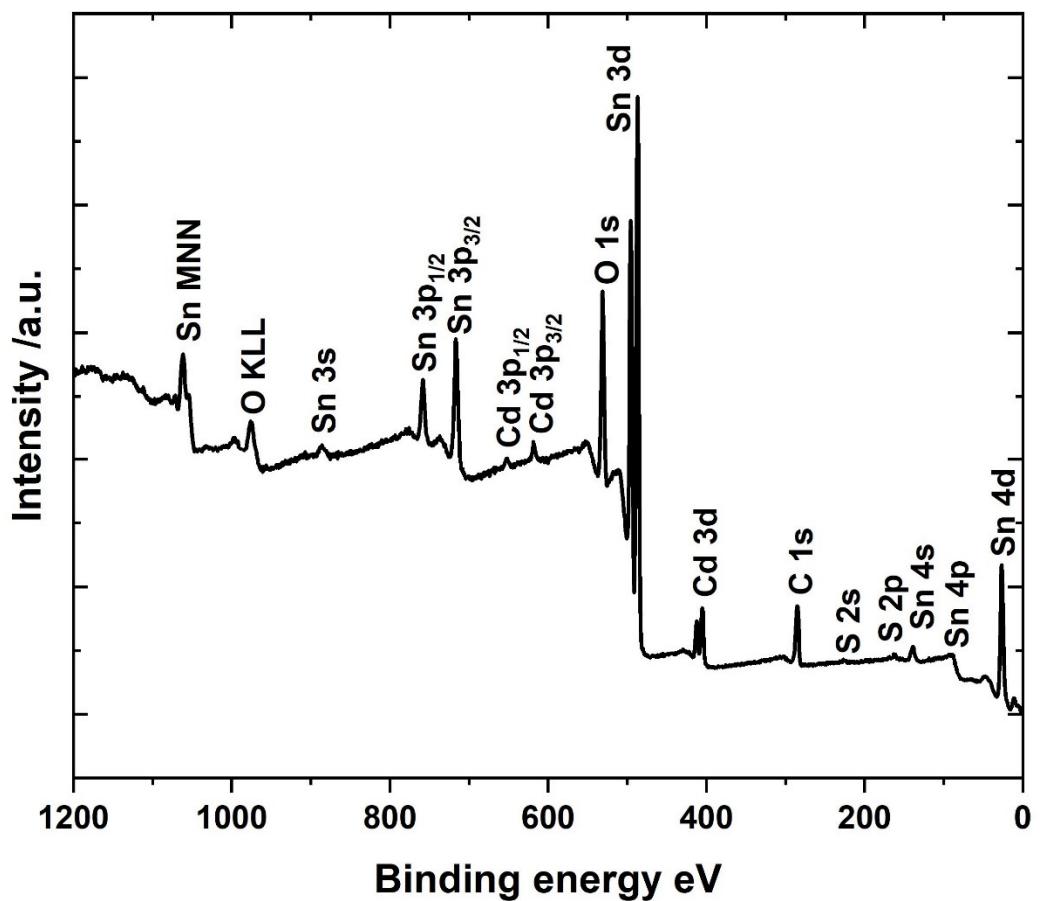


Figure S4. XPS survey spectrum of the a/a sample.