

Electronic Supplementary Information

**Highly Efficient Photoanode Based on Cascade
Structural Semiconductor of Cu₂Se/CdSe/TiO₂: A
Multifaceted Approach to Achieving
Microstructural and Compositional Controls**

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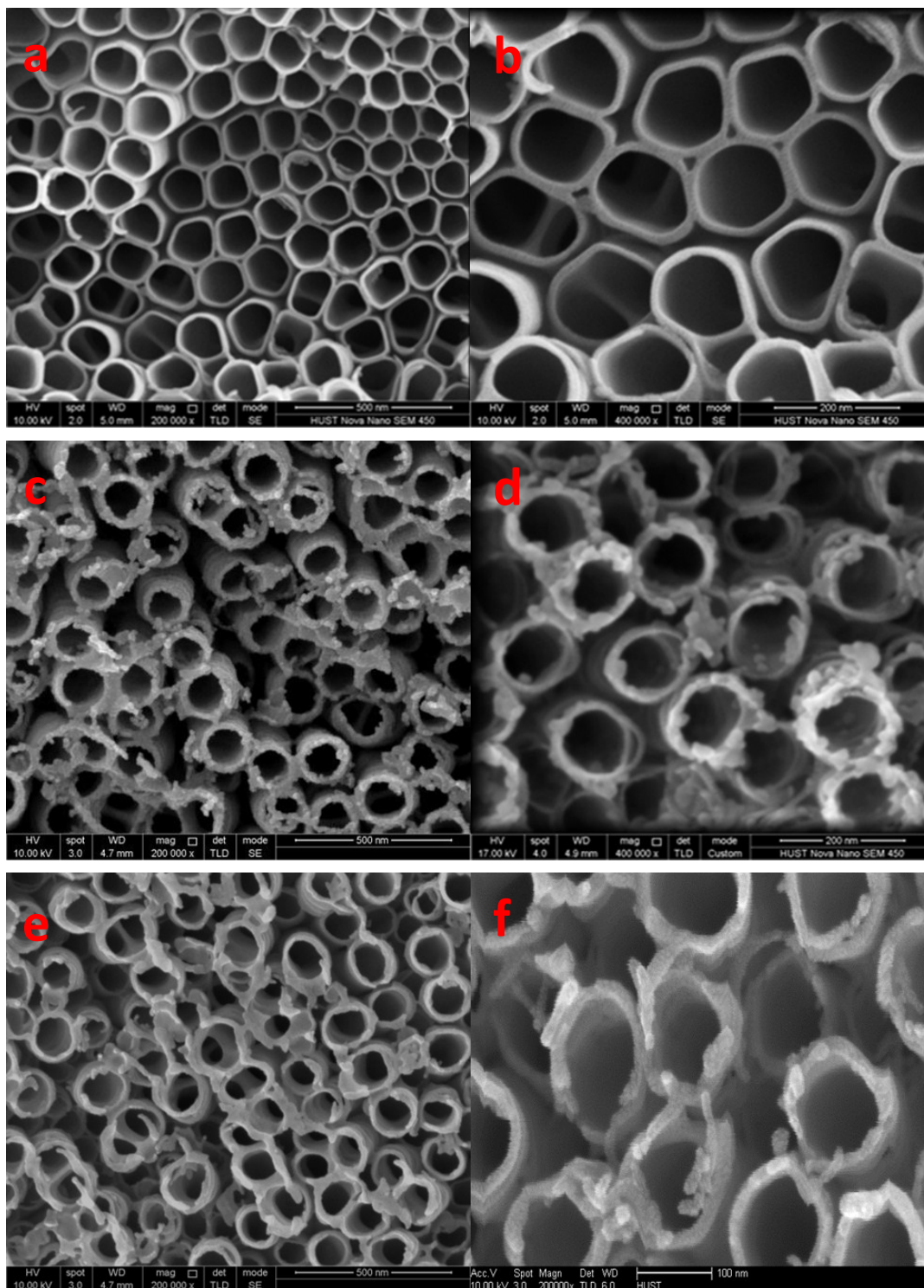


Figure S1. FESEM images of top-surface: (a,b) pure TiO₂, (c,d) CdSe(7h)/TiO₂, (e,f) CdSe(1h)/Cu(0.6C)/CdSe(6h)/TiO₂

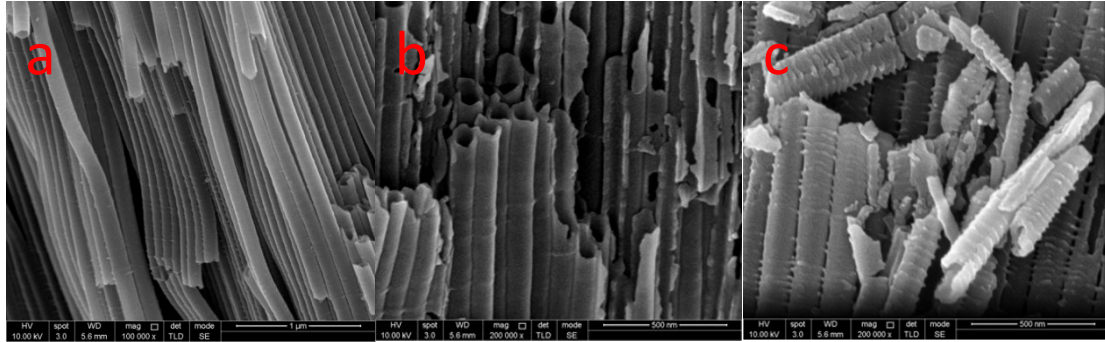


Figure S2. Cross-sectional FSEM images of pure TiO₂ (a), CdSe/TiO₂ (b) and CdSe(1h)/Cu(0.6C)/CdSe(6h)/TiO₂ (c).

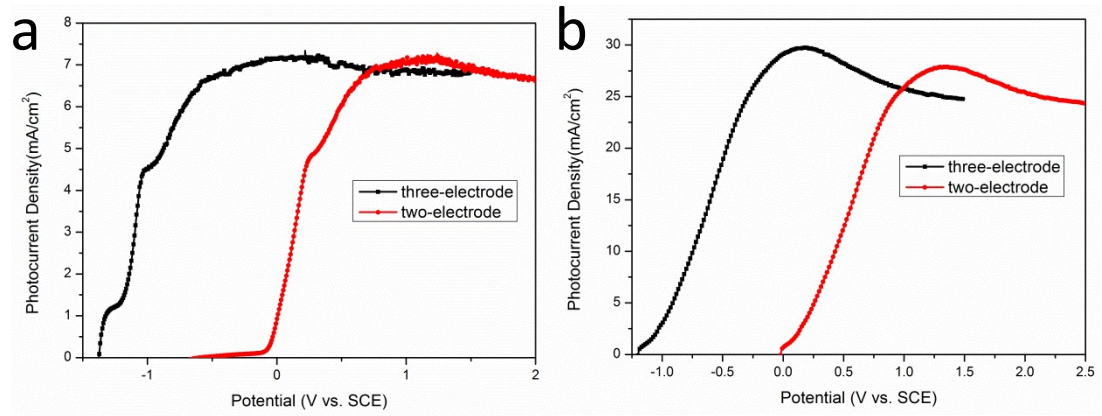


Figure S3. (a) Photocurrent density curves of CdSe/TiO₂ NTAs in different configuration, (b) Photocurrent density curves of Cu₂Se/CdSe/TiO₂ NTAs in different configuration.