## **Electronic supplementary information**

## CdS/CdSe co-sensitized 3D SnO<sub>2</sub>/TiO<sub>2</sub> sea urchin-like nanotube

## arrays as efficient photoande for photoelectrochemical hygrogen

## generation

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Figure S1 Schem of the fabrication process of the CdS/CdSe quantum dots sensitized  $SnO_2/TiO_2$  urchin nanotubes arrays



Figure S2 SEM image of 3D SnO<sub>2</sub>/ZnO urchin-like nanorods.



Figure S3 EDX spectrum collected from the CdS/CdSe co-sensitized 3D  $SnO_2/TiO_2$  urchin-like nanotubes.