Supplementary Materials

Cu Nanoparticles/Fluorine-Doped Tin Oxide (FTO) Nanocomposites for Photocatalytic H2 Evolution under Visible Light Irradiation

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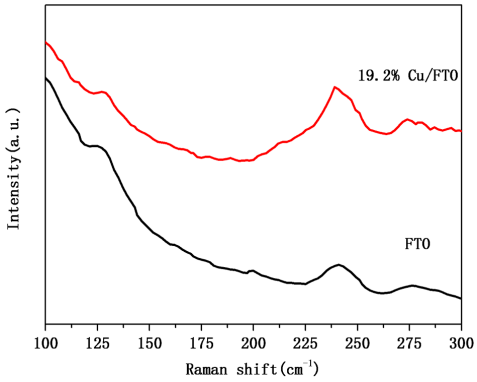

Figure S1. Raman spectra of FTO and 19.2% Cu/FTO.

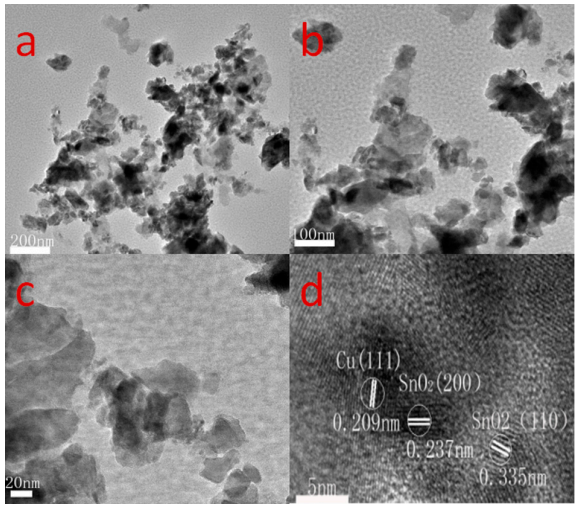

Figure S2. TEM (transmission electron microscopy) (a) and HRTEM (high resolutiontransmission electron. microscopy)) (b) of as-prepared 19.2% Cu/FTO sample.

The samples for TEM were prepared as follows: 0.005g of as-prepared Cu/FTO was dissolved in 1ml of ethanol and sonicated for 30min to form a homogeneous suspension. The homogeneous suspension was dripped onto ultrathin carbon film and then dried in air at room temperature.

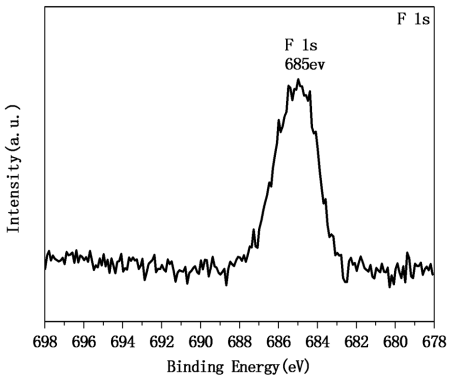

Figure S3. F 1s spectra of 19.2% Cu/FTO with XPS characterization.

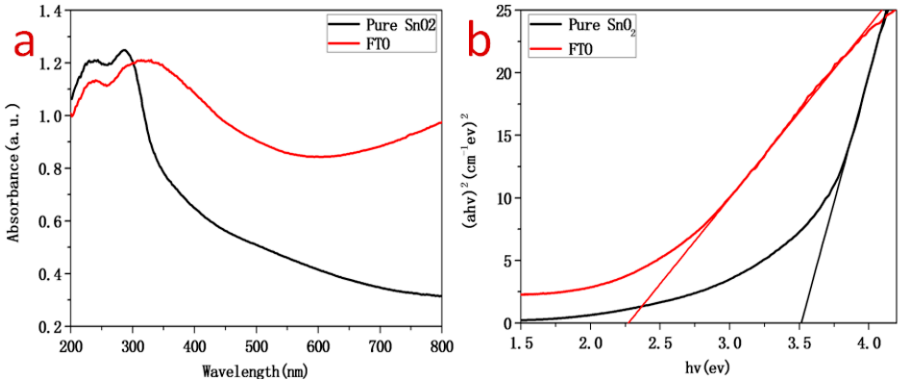

Figure S4. UV–VIS (UV-visible diffuse-reflectance spectrum) (a) and optical band gap spectra (b) of pure SnO_2 and FTO.

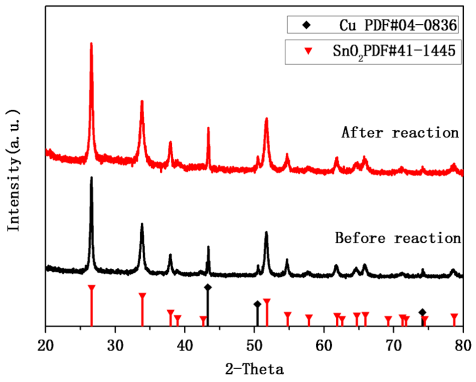

Figure S5. XRD (X-ray diffraction) patterns of 19.2% Cu/FTO before and after the stability test of hydrogen evolution.