

Visible-light responsive photocatalytic fuel cell based on WO_3/W photoanode and $\text{Cu}_2\text{O}/\text{Cu}$ photocathode for simultaneous wastewater treatment and electricity generation

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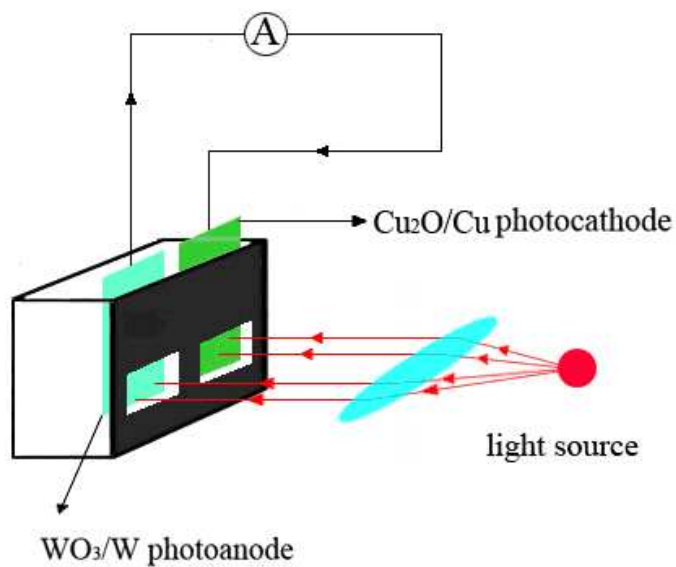


Figure S1. The schematic diagram of self-bias photoelectrochemical cell comprising of WO_3/W photoanode and $\text{Cu}_2\text{O}/\text{Cu}$ photocathode.

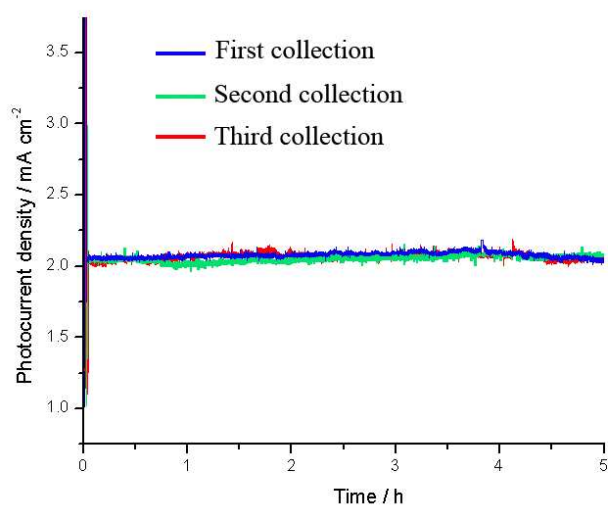


Figure S2. I-t curves of three replications of the PFC system collected in 0.1 M KH_2PO_4 solution (pH 7) containing 20 mg L^{-1} phenol under AM1.5 illumination (100 mW cm^{-2}).

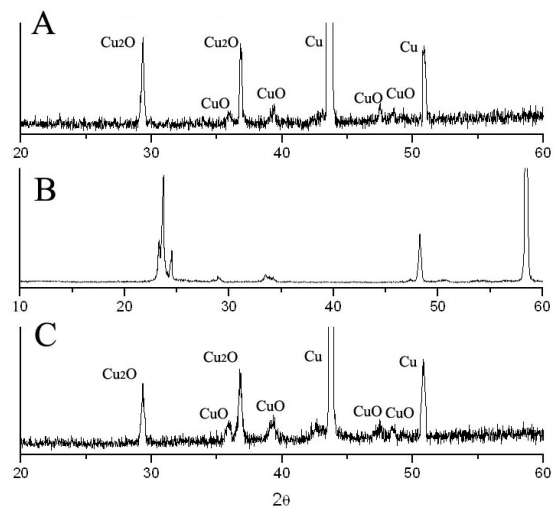


Figure S3. XRD patterns of the freshly prepared $\text{Cu}_2\text{O}/\text{Cu}$ photocathode (A), the used WO_3/W photoanode (B) and the used $\text{Cu}_2\text{O}/\text{Cu}$ photocathode (C).