



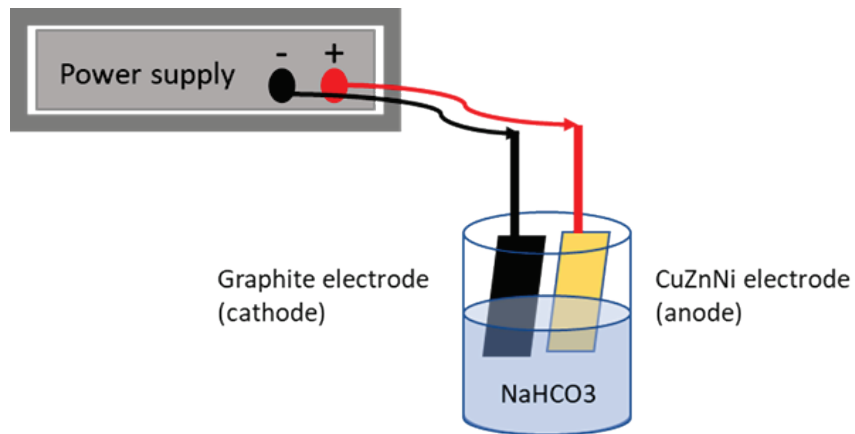
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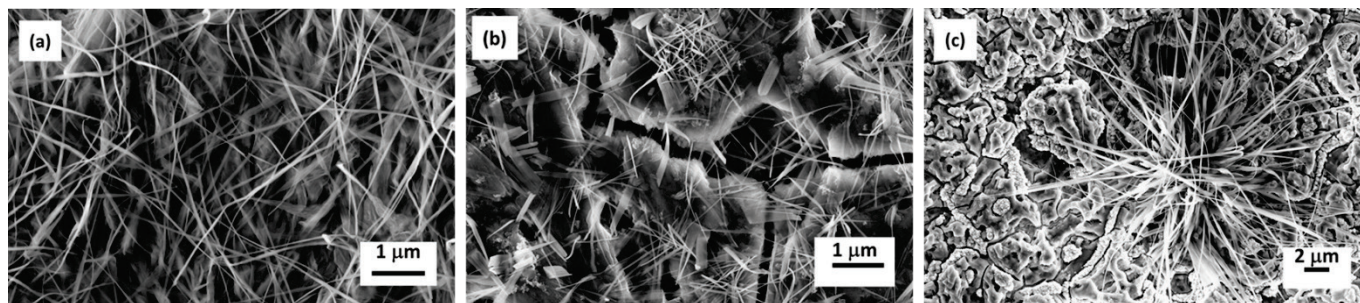
**Supporting information for article:**

**One-step Synthesis of a Novel  $\text{Cu}_2\text{ZnNiO}_3$  Complex Oxide  
Nanowires with Tuned Bandgap for Photoelectrochemical Water  
Splitting**

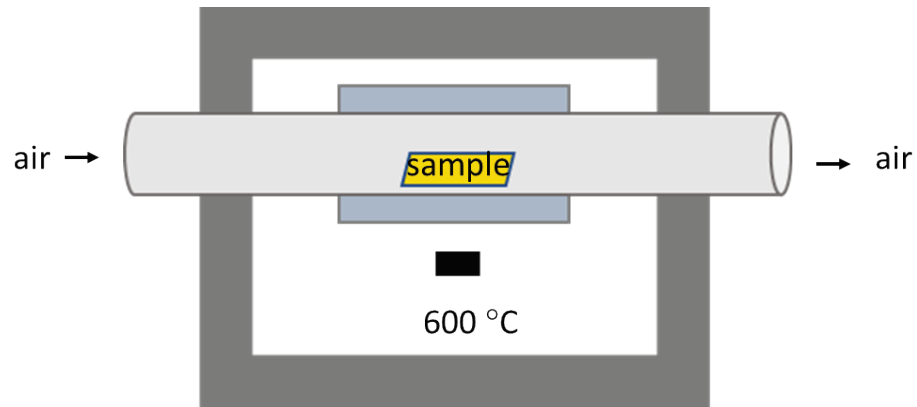
**Aya Amin and Ali el-dissouky**



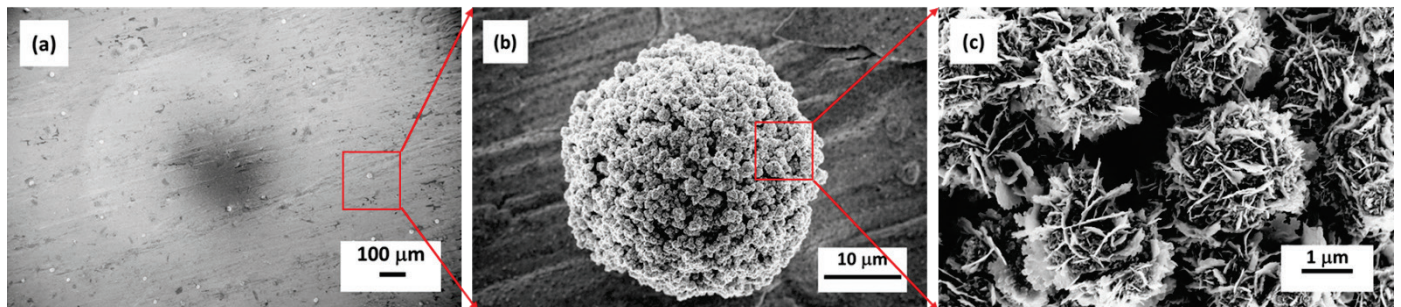
**FIGURE SI.1.** Schematic diagram of anodization treatment of nickel silver alloy as the anode in 1M NaHCO<sub>3</sub> solution at room temperature.



**FIGURE SI.2.** FESEM top-view images of anodized German silver alloy in 1M NaHCO<sub>3</sub> for 30 minutes at (a) 6 V, (b) 10 V, and (c) 12 V.



**FIGURE SI. 3.** Schematic diagram of Thermal treatment of German silver alloy at 600 °C for 1hr in air.



**FIGURE SI.4.** FESEM top-view images of thermally treated German silver alloy at 600°C for 1hr in air.