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**Supplementary Materials** 

**Figure S1**: Time-resolved FE-SEM images of  $\alpha$ -Ag<sub>2</sub>WO<sub>4</sub> operated at **5** kV and different times (A) 0 min, (B) 1 min, (C) 2 min, (D) 3 min, (E) 4 min and (F) 5 min.



**Figure S2**: Time-resolved FE-SEM images of  $\alpha$ -Ag<sub>2</sub>WO<sub>4</sub> operated at **10 kV** and different times (A) 0 min, (B) 1 min, (C) 2 min, (D) 3 min, (E) 4 min and (F) 5 min.



**Figure S3**: Time-resolved FE-SEM images of  $\alpha$ -Ag<sub>2</sub>WO<sub>4</sub> operated at **15 kV** and different times (A) 0 min, (B) 1 min, (C) 2 min, (D) 3 min, (E) 4 min and (F) 5 min.



**Figure S4**: Time-resolved FE-SEM images of  $\alpha$ -Ag<sub>2</sub>WO<sub>4</sub> operated at **20** kV and different times (A) 0 min, (B) 1 min, (C) 2 min, (D) 3 min, (E) 4 min and (F) 5 min.