Supplementary Materials

One Dimensional AuAg Nanostructures as Anodic Catalysts in the Ethylene Glycol Oxidation

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Figure S1: TEM images of nanowires produced following dilution after aging at 20 °C for 18 h.
**Figure S2**: Size distribution of ultrathin AuAg NWs produced following dilution after aging at 20 °C for 18 h with average diameter of 9.2 ± 2 nm.

**Figure S3**: Size distribution of ultrathin AuAg NWs produced following dilution after aging at 25 °C for 18 h with average diameter of 3.8 ± 1.6 nm.
Figure S4: TEM images of nanowires produced following dilution after aging at 30 °C for 18 h.
Figure S5: TEM images of nanoparticles produced following dilution after aging at 40 °C for 18 h.

Figure S6: STEM image of nanowires produced following dilution after aging at 20 °C for 18 h.
Figure S7: XPS analysis of nanowires produced following dilution after aging at 20 °C for 18 h.

Durability calculation of AuAg NWs from chrono-amperimetric $I-T$ curves

$$\frac{i_t}{i_0} \times 100\%$$

9.2 nm AuAg NWs

$$\frac{0.0047}{0.0142} \times 100\% = 33\%$$

3.8 nm AuAg NWs

$$\frac{0.0033}{0.006} \times 100\% = 55\%$$