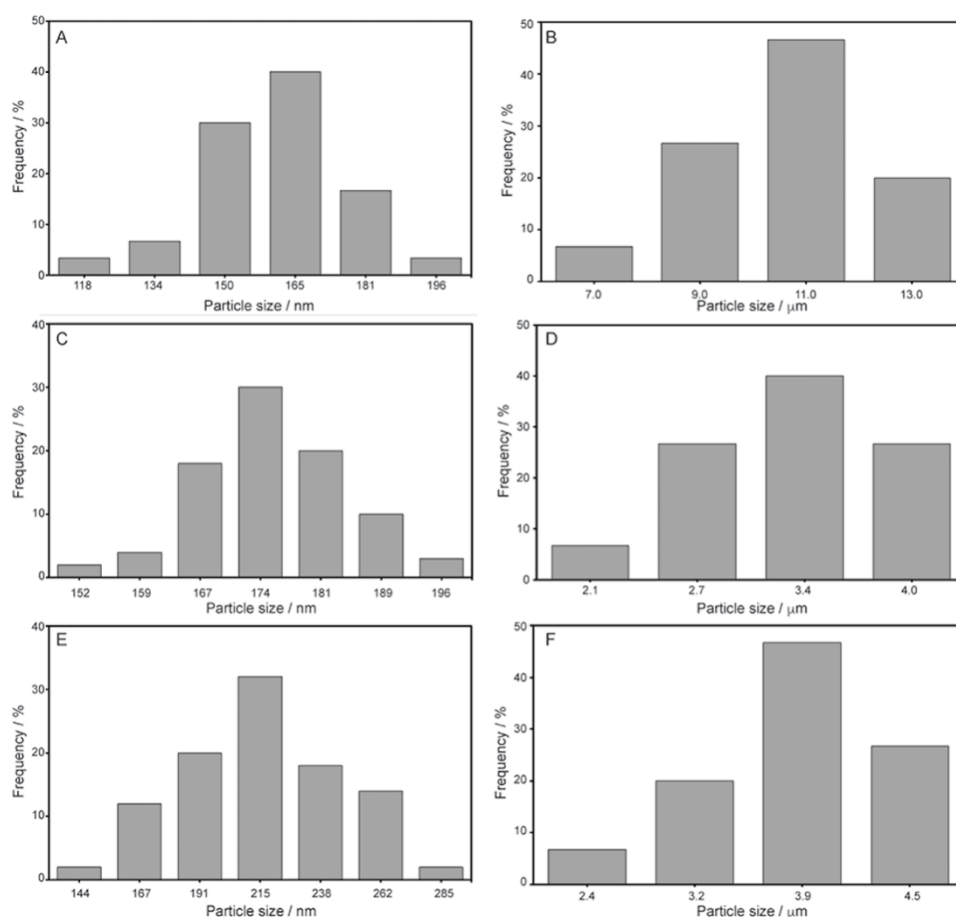


## Supplementary Information

### AgAu Nanotubes: Investigating the Effect of Surface Morphologies and Optical Properties over Applications in Catalysis and Photocatalysis

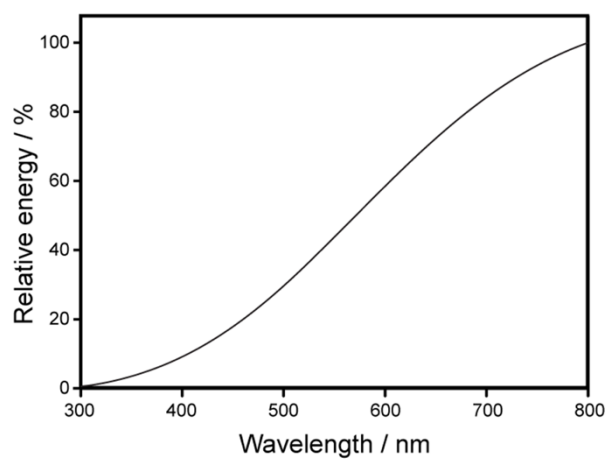
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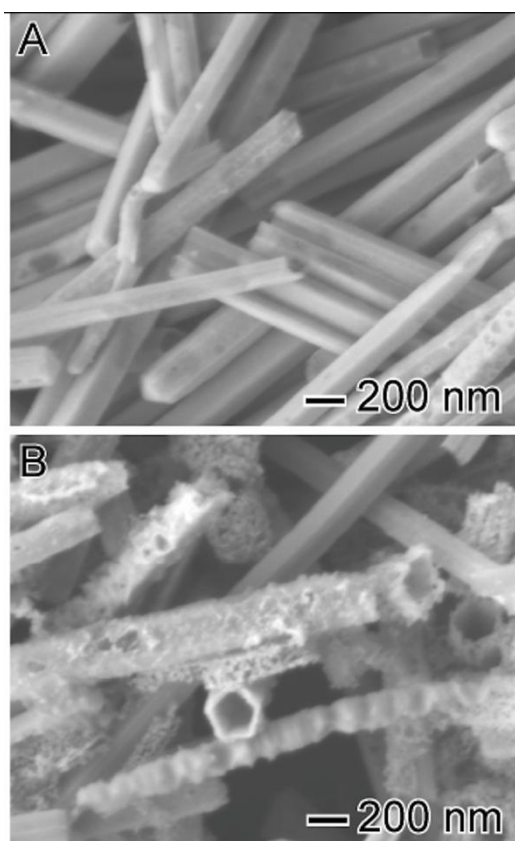


**Figure S1.** Histograms showing the distribution of width (left column) and length (right column) for the obtained Ag nanowires (A-B), AgAu 25 nanotubes (C-D), and AgAu 100 nanotubes (E-F).

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**Figure S2.** Emission spectrum for the commercial tungsten-halogen lamp employed as the excitation source in our photocatalytic experiments.



**Figure S3.** SEM images for (A) AgAu 100 and (B) AgAu 25 nanotubes after catalytic tests using *tert*-butyl hydroperoxide as oxidizing agent under visible light illumination.