

Supporting Information

Facile Synthesis of Ag/ZnO Metal-Semiconductor Hierarchical Photocatalyst Nanostructures via Galvanic-Potential-Enhanced Hydrothermal Method

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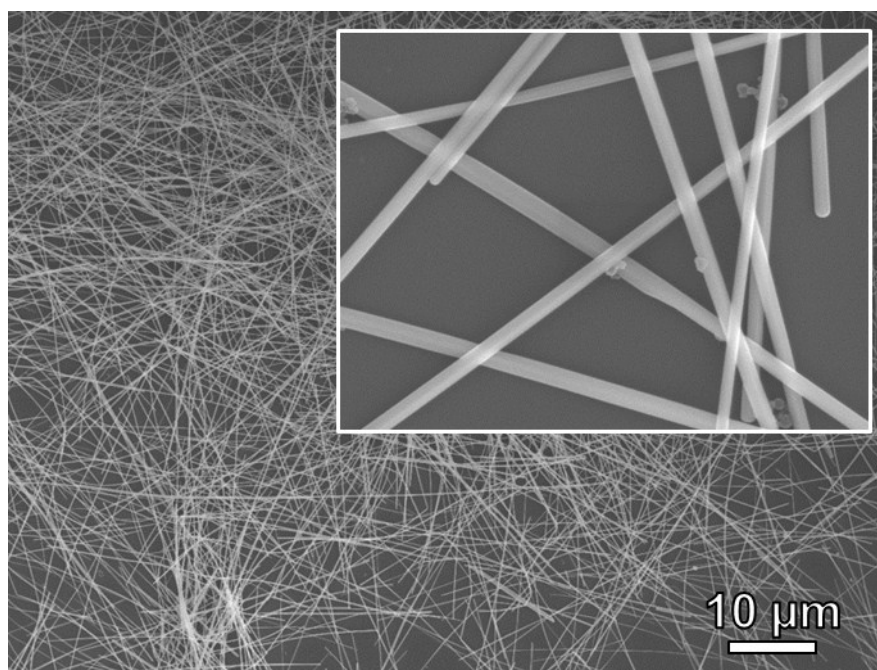


Figure S1. FESEM image of the Ag NWs prepared by polyol method.

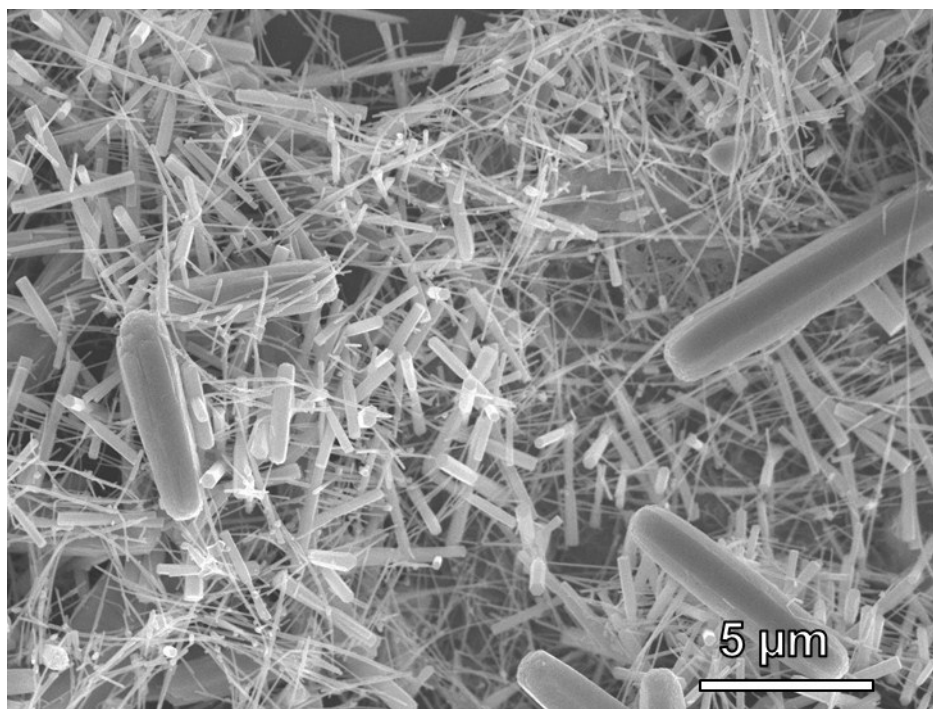


Figure S2. FESEM of the Ag/ZnO nanostructures synthesized in a glass bottle reservoir.

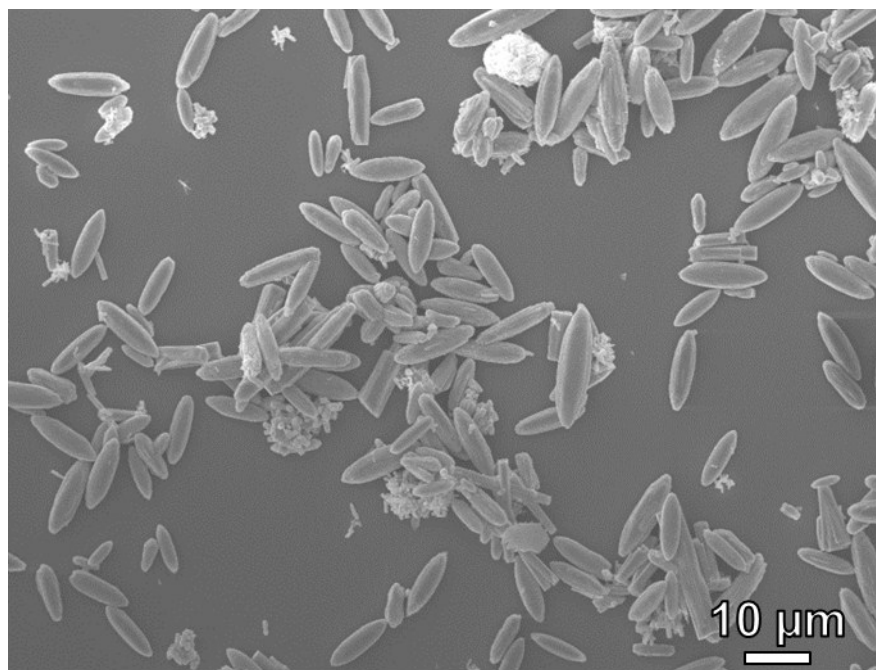


Figure S3. FESEM images of the ZnO NS synthesized without adding Ag NWs.

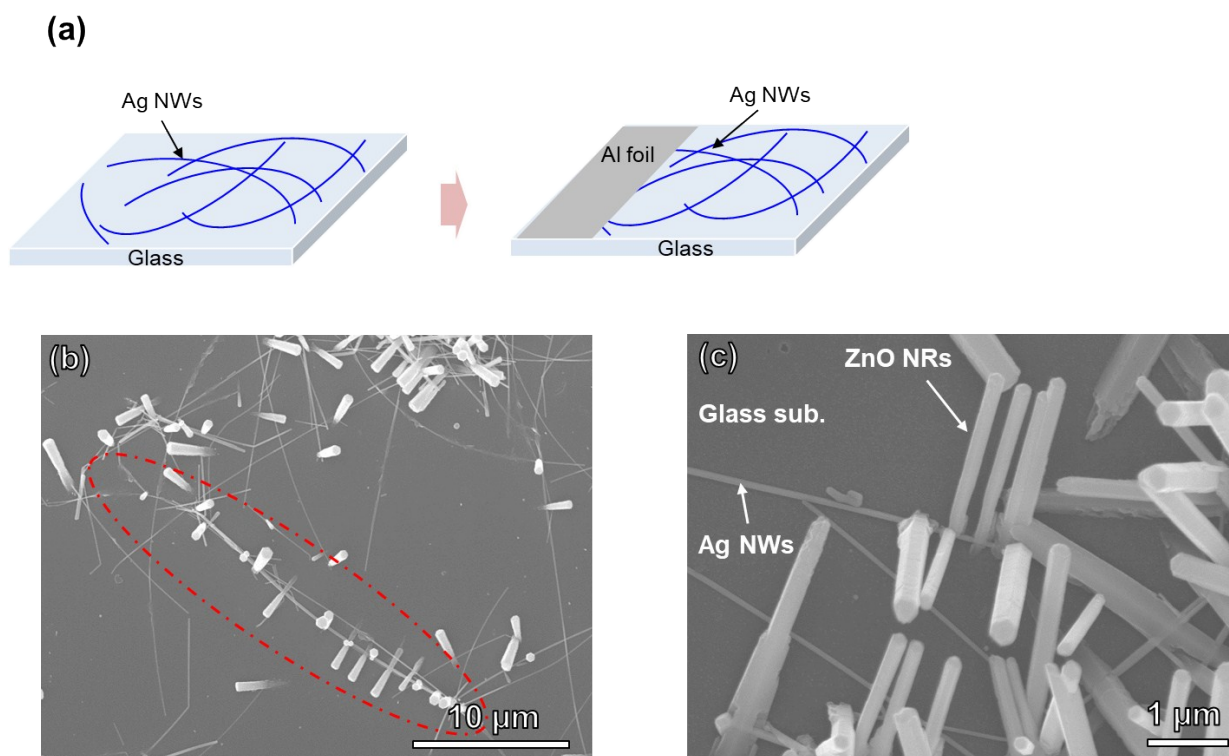


Figure S4. (a) Schematic image of the formation of galvanic cell structure between Al foil and intercalated Ag NWs layer on glass substrate. (b) Low and (c) high magnification FESEM images of the Ag/ZnO nanostructures grown on glass substrate.

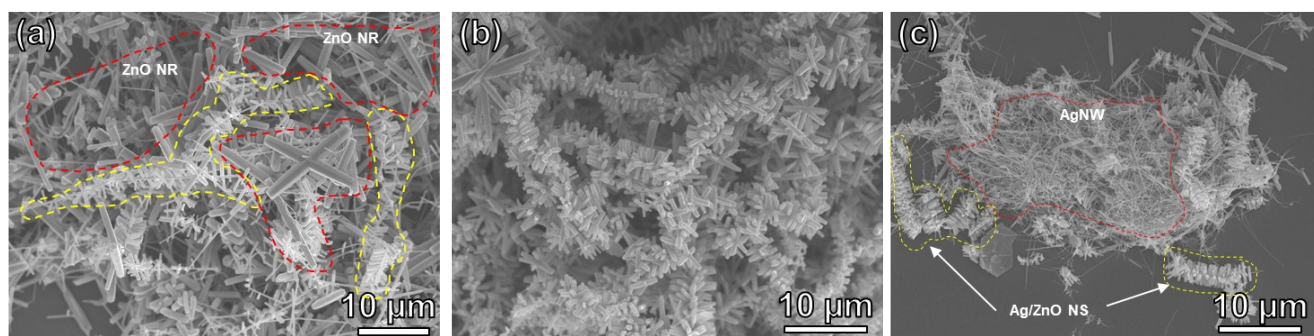


Figure S5. FESEM images of the Ag/ZnO nanostructures synthesized in a hydrothermal solution containing different concentration of AgNW. (a) 0.08 wt.% , (b) 0.17 wt. %, and (c) 0.6wt. %.

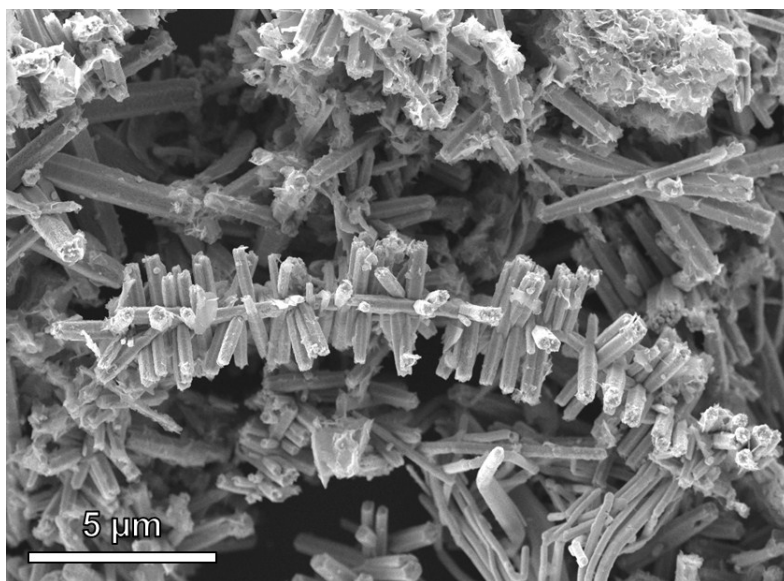


Figure S6. FESEM images of the Ag/ZnO nanostructures after two cycles of photodegradation test.