

Supporting information:

## **Synthesis and Visible Light Photocatalytic Property of**

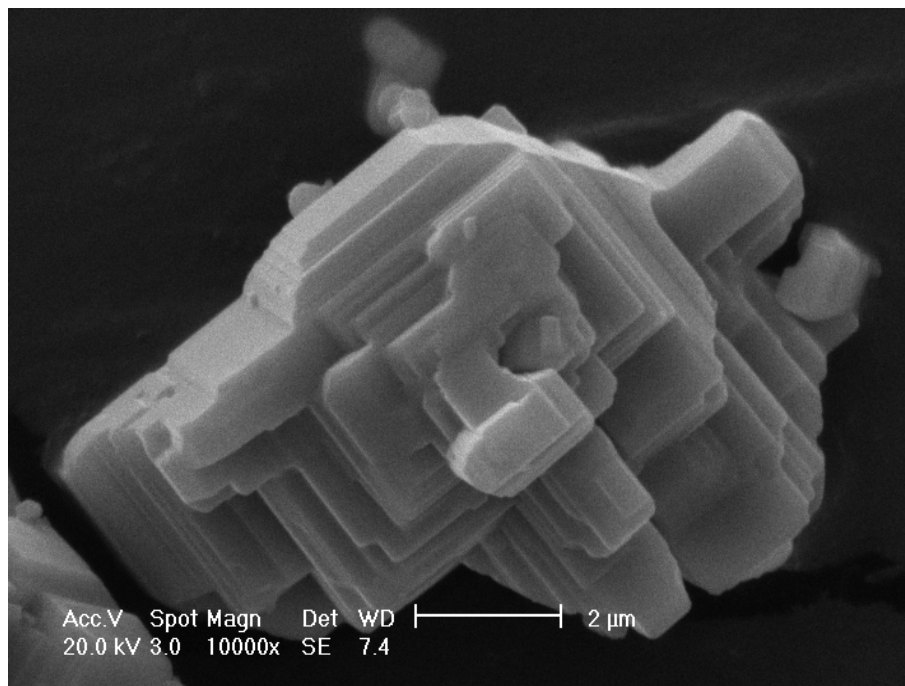
### **Polygon-shaped AgNbO<sub>3</sub>**

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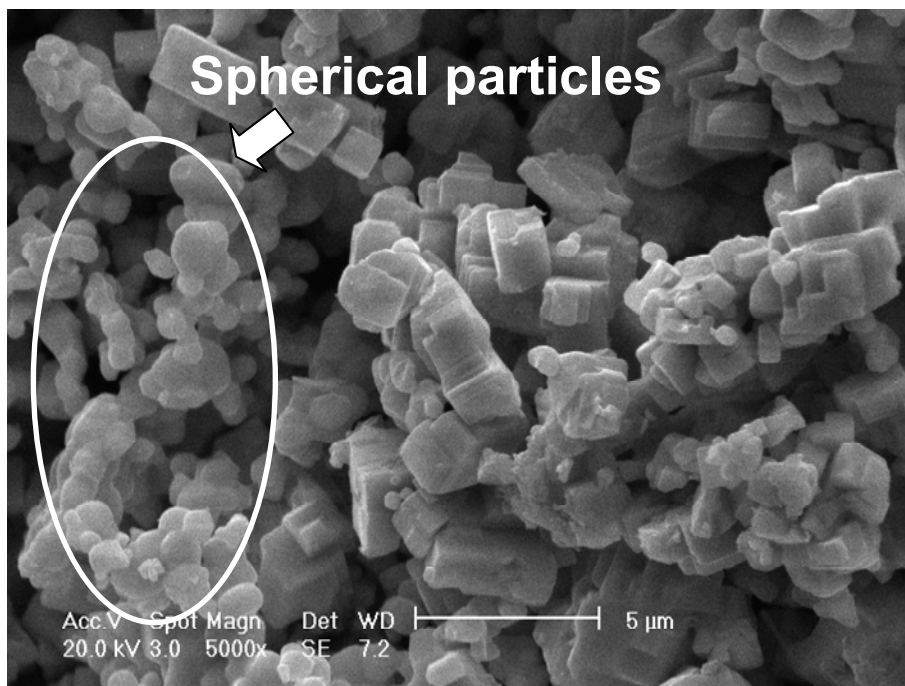
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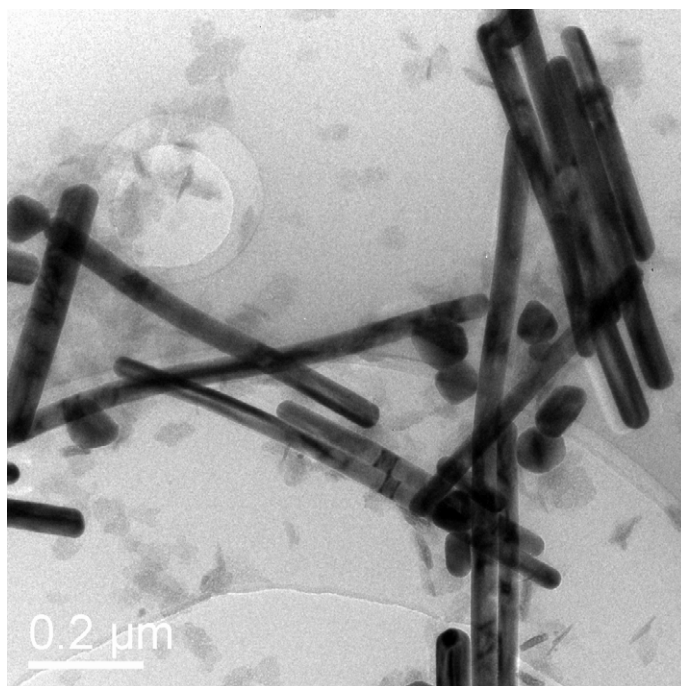
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+86-25-8368-6630; Fax: +86-25-8368-6632.



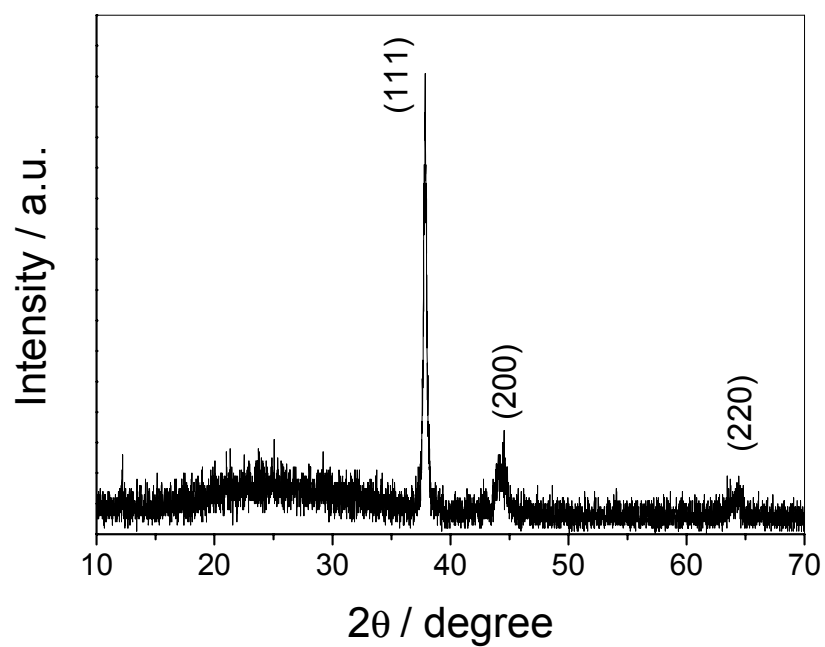
**Figure S1.** SEM image of Cu:AN(ST) in small enlargement factor. Many steps exist on the surface.



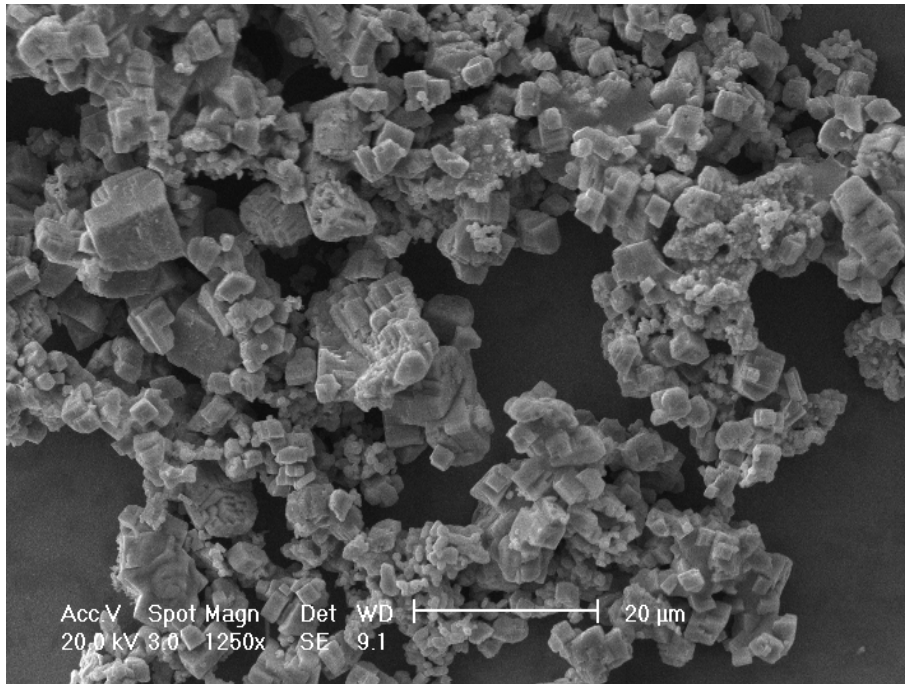
**Figure S2.** SEM image of Cu:AN(ST) with small enlargement factor. In the circle, the particles show spherical morphology.



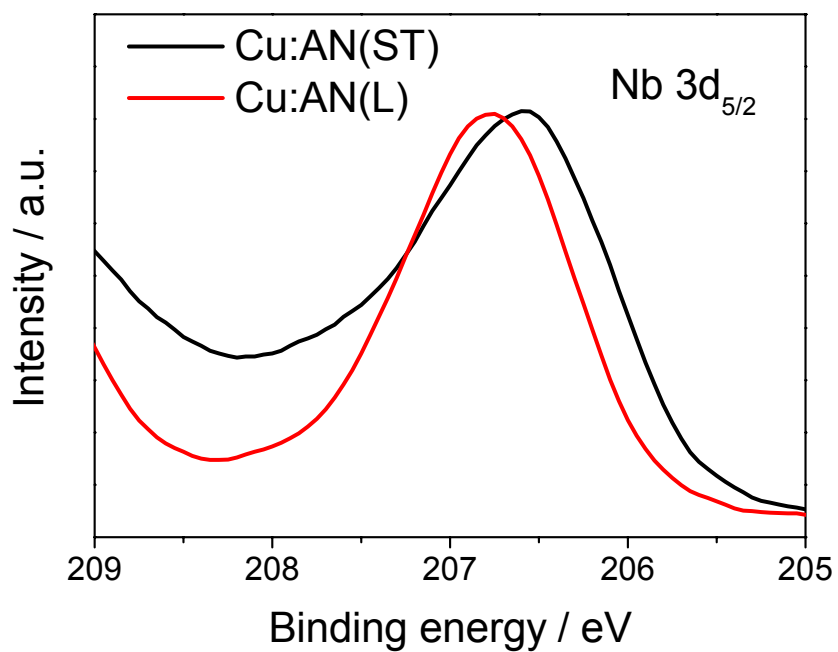
**Figure S3.** TEM image of silver nanowires. Also there are some spherical particles.



**Figure S4.** X-ray diffraction patterns of the solution precursor. The peak could be indexed as the cubic silver (PDF#04-0783).



**Figure S5.** SEM image of Cu:AN(L) with small enlargement factor. Most of particles show polygon-shaped morphology, although there are some aggregations.



**Figure S6.** XPS line of Nb 3d<sub>5/2</sub> obtained from Cu:AN(ST) and Cu:AN(L).