

Accepted Manuscript

Title: Gold nanobipyramid@cuprous oxide jujube-like nanostructures for plasmon-enhanced photocatalytic performance

Authors: Yujie Ma, Xingzhong Zhu, Shusheng Xu, Guili He, Lu Yao, Nantao Hu, Yanjie Su, Jie Feng, Yafei Zhang, Zhi Yang



PII: S0926-3373(18)30334-5
DOI: <https://doi.org/10.1016/j.apcatb.2018.04.014>
Reference: APCATB 16585

To appear in: *Applied Catalysis B: Environmental*

Received date: 11-1-2018
Revised date: 15-3-2018
Accepted date: 9-4-2018

Please cite this article as: Ma Y, Zhu X, Shusheng X, He G, Yao L, Hu N, Su Y, Feng J, Zhang Y, Yang Z, Gold nanobipyramid@cuprous oxide jujube-like nanostructures for plasmon-enhanced photocatalytic performance, *Applied Catalysis B: Environmental* (2018), <https://doi.org/10.1016/j.apcatb.2018.04.014>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Gold nanobipyramid@cuprous oxide jujube-like nanostructures for plasmon-enhanced photocatalytic performance

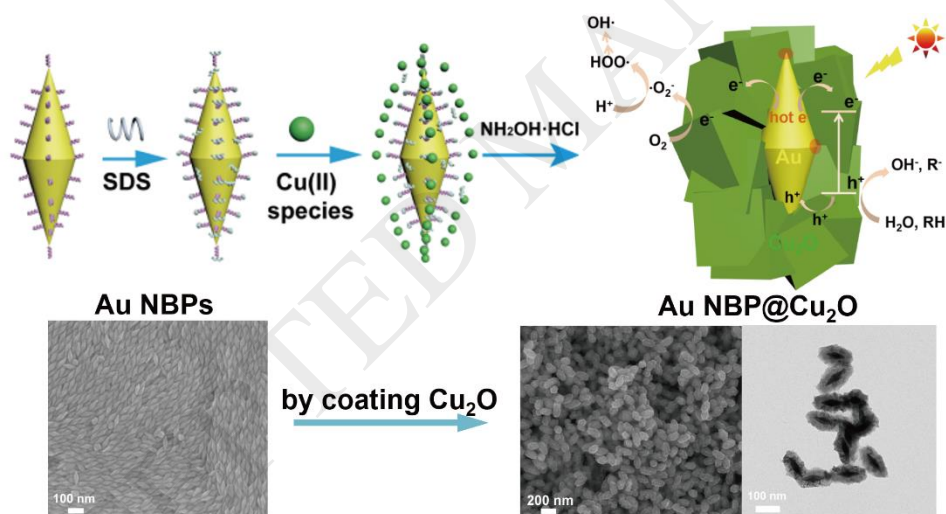
Yujie Ma, Xingzhong Zhu, Shusheng Xu, Guili He, Lu Yao, Nantao Hu, Yanjie Su, Jie Feng, Yafei

Zhang, Zhi Yang*

Key Laboratory for Thin Film and Microfabrication of Ministry of Education, Department of Micro/Nano Electronics, School of Electronic Information and Electrical Engineering, Shanghai Jiao Tong University, Shanghai 200240, P. R. China

*Corresponding author E-mail address: zhiyang@sjtu.edu.cn

Graphical abstract



Highlights

- Jujube-like Au NBP@Cu₂O was prepared by coating Cu₂O on pre-synthesized Au NBP.
- The size and shell thickness of Au NBP@Cu₂O composites are adjustable.
- Light absorption of Au NBP@Cu₂O is tunable from visible to near-infrared region.
- Au NBP@Cu₂O exhibits enhanced photocatalytic activity and stability than pure Cu₂O.

Download English Version:

<https://daneshyari.com/en/article/6498284>

Download Persian Version:

<https://daneshyari.com/article/6498284>

[Daneshyari.com](https://daneshyari.com)