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

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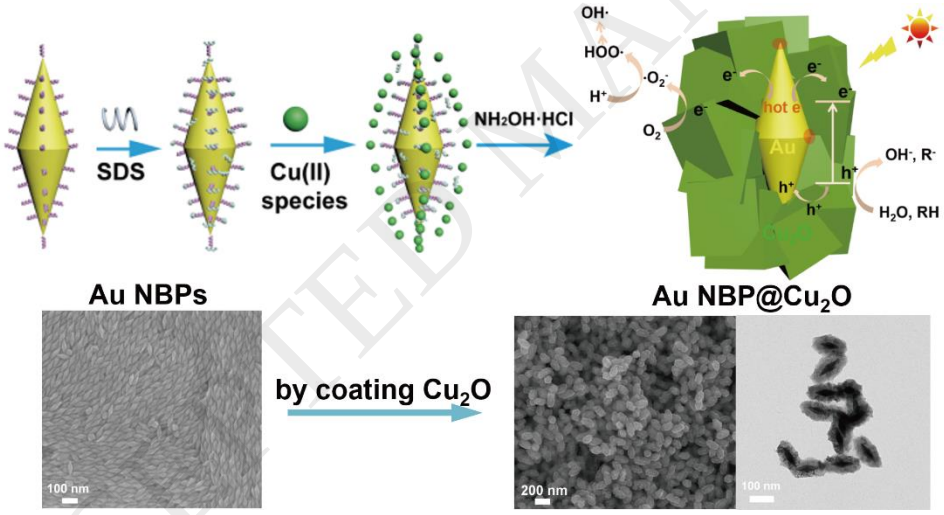
Graphical abstract



Highlights

- Jujube-like Au NBP@Cu_2O was prepared by coating Cu_2O on pre-synthesized Au NBP.
- The size and shell thickness of Au NBP@Cu_2O composites are adjustable.
- Light absorption of Au NBP@Cu_2O is tunable from visible to near-infrared region.
- Au NBP@Cu_2O exhibits enhanced photocatalytic activity and stability than pure Cu_2O.