

Electronic Supplementary Material (ESI) for New Journal of Chemistry.

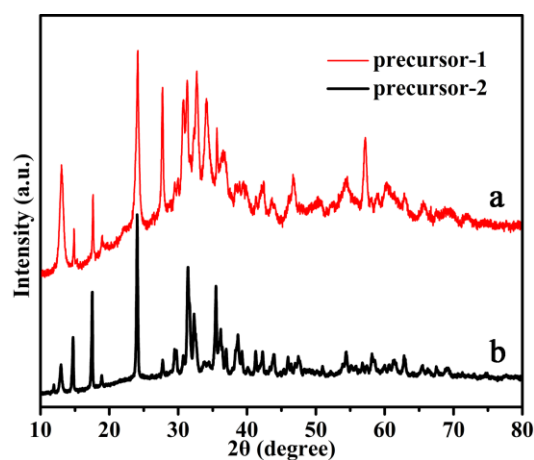
This journal is © The Royal Society of Chemistry and the Centre National de la Recherche Scientifique 2018

## Biomimetic Synthesis of Urchin-like CuO/ZnO Nanocomposite with Excellent Photocatalytic Activity

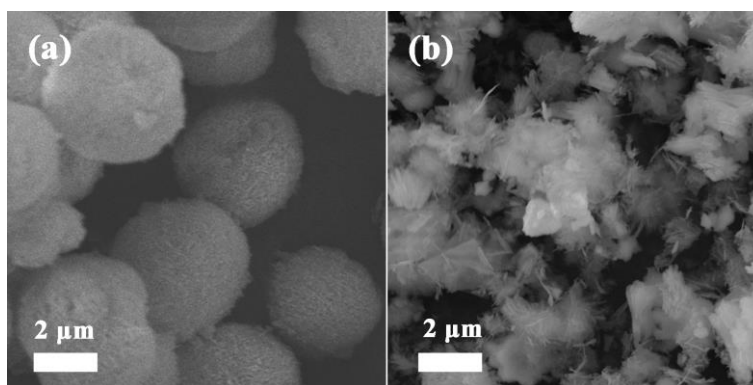
Hui Fang, Yanxia Guo, Tong Wu, Yiping Liu\*

\*College of Chemistry, Key Laboratory of Biosensing and Molecular Recognition (Tianjin), and Key Laboratory of Advanced Energy Materials Chemistry (Ministry of Education), Nankai University, Tianjin 300071, China

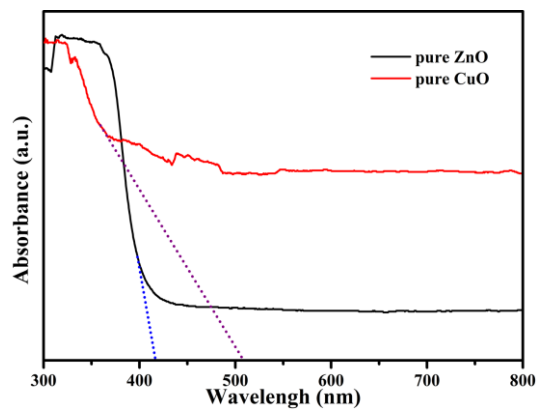
### Supplementary Figures



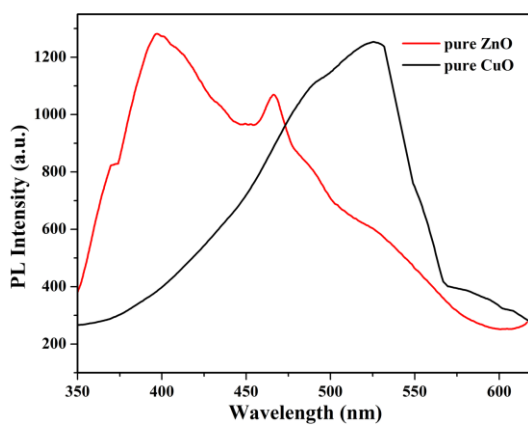
**Fig. S1** XRD patterns of the precursors of the (a) ZnCu-1 and (b) ZnCu-2 nanocomposites.



**Fig. S2** SEM images of the precursors of (a) ZnCu-1 and (b) ZnCu-2 nanocomposites.



**Fig. S3** UV-Vis diffuse reflectance spectra of the pure ZnO and CuO.



**Fig. S4** Room temperature photoluminescence spectra of the pure ZnO and CuO.