

Supporting Information

In-situ gold decorated 3D branched ZnO nanocomposite and their enhanced absorption and photooxidation performances for removing of arsenic from water

Mianli Huang,^a Wenhui Feng,^b Wentao Xu,^a and Ping Liu*^b

^a Quanzhou Normal University, Quanzhou, 362000, China

^b State Key Laboratory of Photocatalysis on Energy and Environment, Fuzhou University, Fujian 350002, China. Email: liuping@fzu.edu.cn

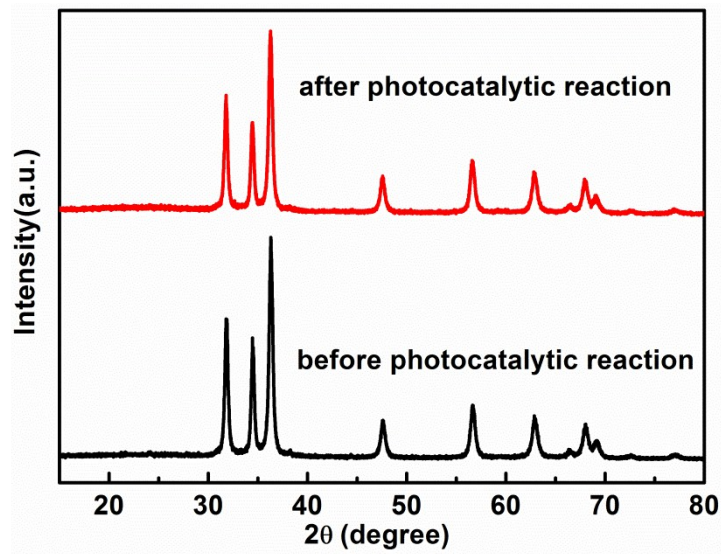


Figure S1. XRD patterns of the ZnO-Au(0.5%) sample before and after photocatalytic reaction

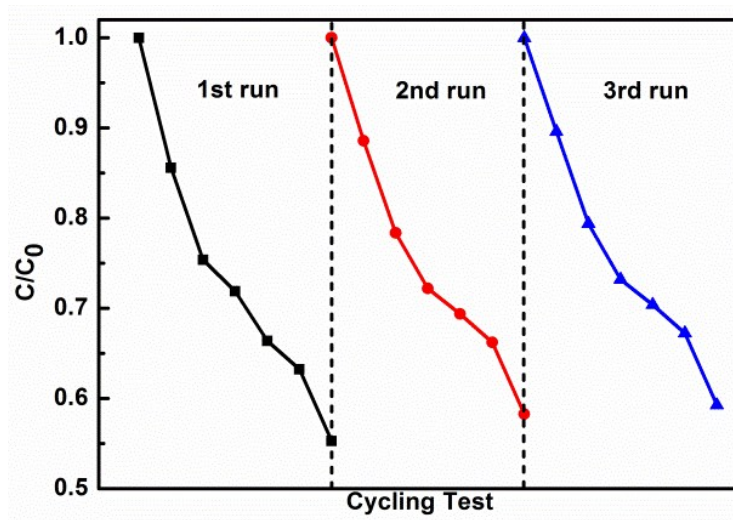


Figure S2. Photocatalytic cycling test of ZnO-Au(1%)

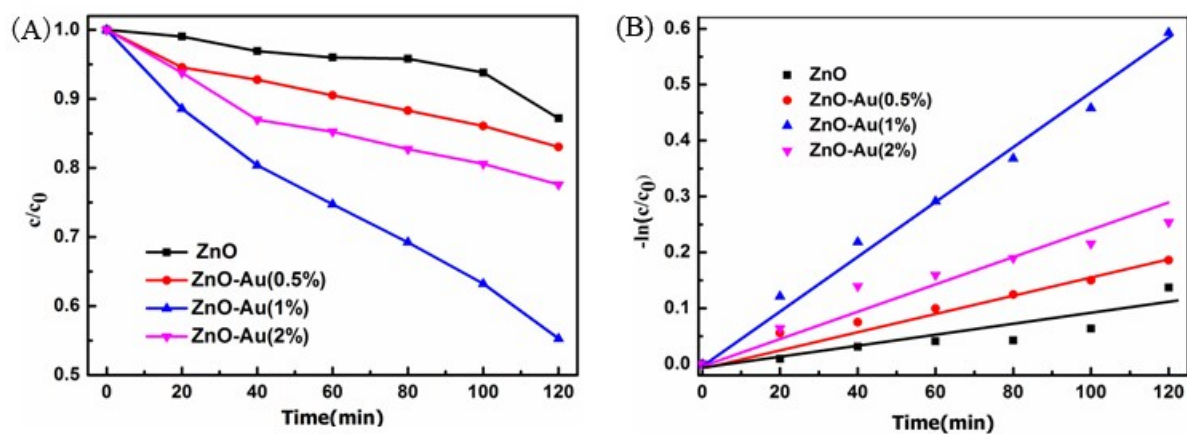


Figure S3. (A) Photocatalytic oxidation abilities toward As(III) under visible light (> 400 nm) (B) Linear fitting results of pseudo-first-order kinetics.