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Authors: Guang Yang, Hao Ding, Daimei Chen, Jiejie Feng, Qianghao, Yongfa Zhu

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## ACCEPTED MANUSCRIPT

# Construction of urchin-like ZnIn<sub>2</sub>S<sub>4</sub>-Au-TiO<sub>2</sub> heterostructure with enhanced activity for photocatalytic hydrogen evolution

Guang Yang<sup>a</sup>, Hao Ding<sup>\*a</sup>, Daimei Chen<sup>\*a</sup>, Jiejie Feng<sup>a</sup>, Qianghao<sup>a</sup>, Yongfa Zhu<sup>b</sup>

a Beijing Key Laboratory of Materials Utilization of Nonmetallic Minerals and Solid Wastes, National Laboratory of Mineral Materials, School of Materials Science and Technology, China University of Geosciences, Xueyuan Road, Haidian District, Beijing, 100083, P.R. China,

b Department of Chemistry, Tsinghua University Beijing 100084, China

# Au nanoparticles coating TiO<sub>2</sub> sphere Au-TiO<sub>2</sub> TiO<sub>3</sub> sphere Au-TiO<sub>4</sub> TiO<sub>5</sub> TiO<sub>6</sub> TiO<sub>7</sub> TiO<sub>8</sub> TiO<sub>8</sub> TiO<sub>9</sub> TiO<sub>9</sub>

## Graphical Abstract

<sup>\*</sup> Corresponding Author Tel:+8601082322982 E-mail: dinghao113@126.com.

<sup>\*</sup> Corresponding Author Tel:+8601082323201 E-mail: chendaimei@cugb.edu.cn.

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