

Electronic Supplementary Material (ESI) for Dalton Transactions

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Supporting Information

In situ fabrication of a novel CdS/ZnIn₂S₄/g-C₃N₄ ternary heterojunction with enhanced visible-light photocatalytic performance

Jingzhe Li,^a Yue Chen,^a Liezhen Zhu,^a Linfa Liao,^a Xinmao Wang,^a Xun Xu,^a Lingfang Qiu,^a Jiangbo Xi,^b Ping Li*^a and Shuwang Duo*^a

^a Jiangxi Key Laboratory of Surface Engineering, School of Materials and Mechanical & Electrical Engineering, Jiangxi Science and Technology Normal University, Nanchang, Jiangxi 330013, P. R. China. E-mail: lp1849065552@163.com, dsw@jxstnu.edu.cn

^b Key Laboratory of Novel Biomass-Based Environmental and Energy Materials in Petroleum and Chemical Industry, Key Laboratory of Green Chemical Engineering Process of Ministry of Education, Engineering Research Center of Phosphorus Resources Development and Utilization of Ministry of Education, Hubei Key Laboratory of Novel Reactor and Green Chemical Technology, School of Chemistry and Environmental Engineering, Wuhan Institute of Technology, Wuhan, 430073, P.R. China.

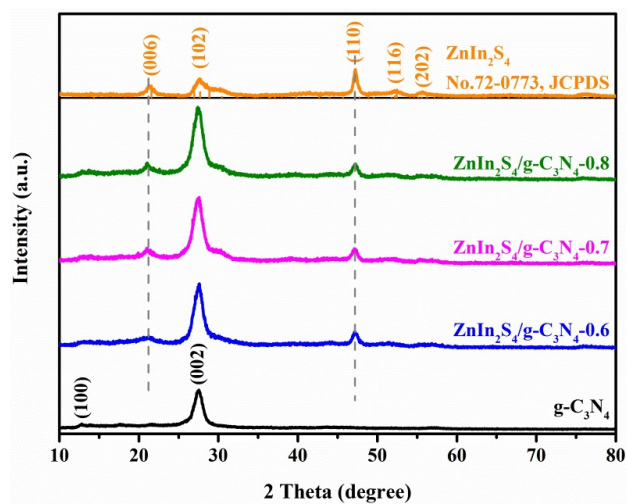


Fig. S1 The XRD patterns of $g\text{-C}_3\text{N}_4$, ZnIn_2S_4 , and $\text{ZnIn}_2\text{S}_4/g\text{-C}_3\text{N}_4\text{-X}$ ($X = 0.6, 0.7$ and 0.8).

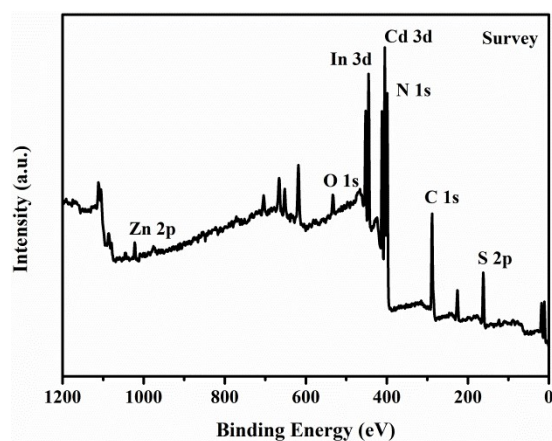


Fig. S2 The survey XPS spectrum of $\text{CdS}/\text{ZnIn}_2\text{S}_4/g\text{-C}_3\text{N}_4\text{-0.2}$.

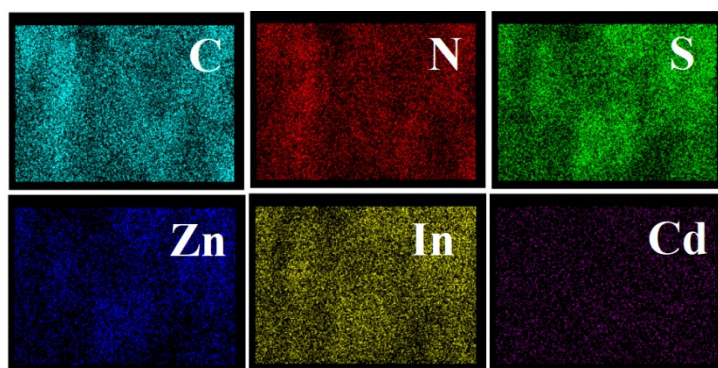


Fig. S3 EDS elements mappings of $\text{CdS}/\text{ZnIn}_2\text{S}_4/g\text{-C}_3\text{N}_4\text{-0.2}$ heterostructure.

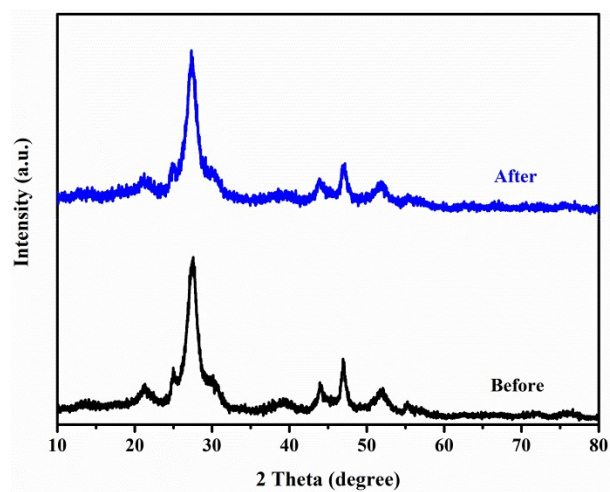


Fig. S4 XRD patterns of fresh and used CdS/ZnIn₂S₄/g-C₃N₄-0.2 in the recycled photocatalytic experiments.

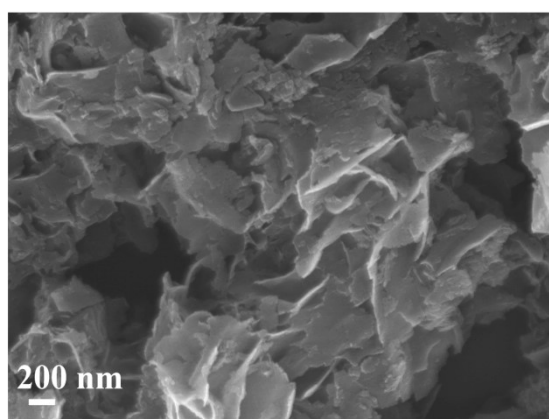


Fig. S5 SEM image of used CdS/ZnIn₂S₄/g-C₃N₄-0.2 after four cycles.