

Fabrication of ternary heterojunction Cd_{0.5}Zn_{0.5}S@UIO-66@g-C₃N₄ for enhanced visible-light photocatalytic hydrogen evolution and degradation of organic pollutant

Qian Liang^a, Jie Jin^a, Changhai Liu^b, Song Xu^a, Chao Yao^a, Zhongyu Li^{a,*}

^a School of Petrochemical Engineering, Changzhou University, Changzhou 213164, PR China.

^b School of Materials Science & Engineering, Jiangsu Collaborative Innovation Center of Photovoltaic Science and Engineering, Changzhou University, Changzhou 213164, PR China.

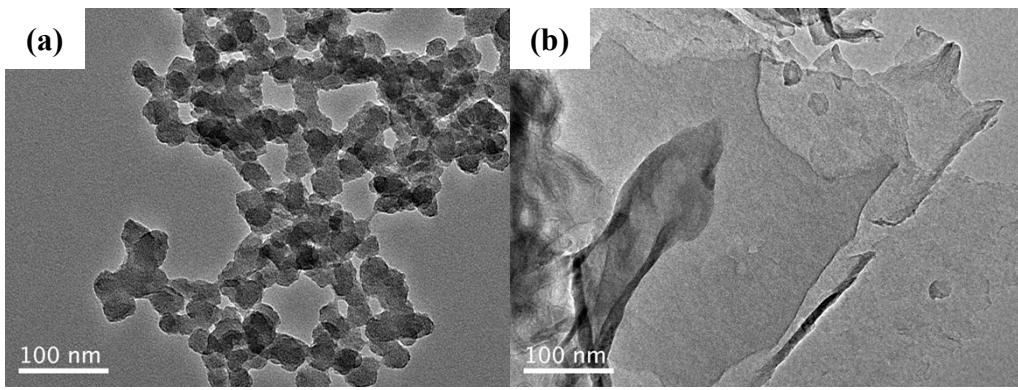


Fig. S1. TEM images of (a) UIO-66 and (b) g-C₃N₄ nanosheet.

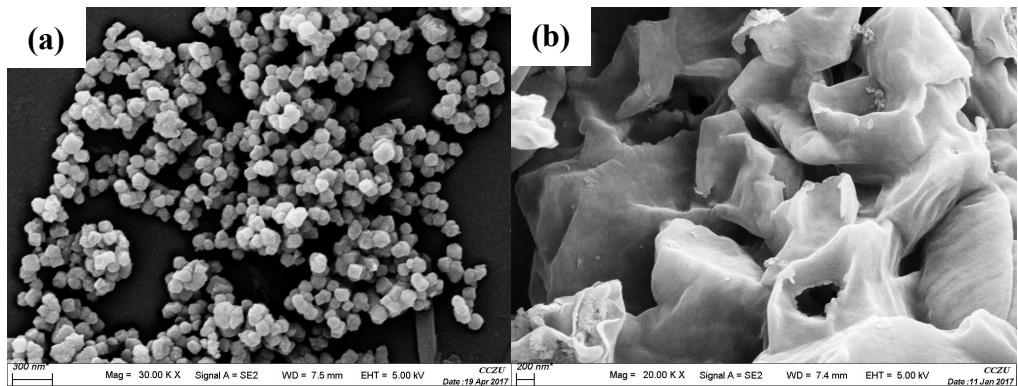


Fig. S2. SEM images of (a) UIO-66 and (b) g-C₃N₄ nanosheet.

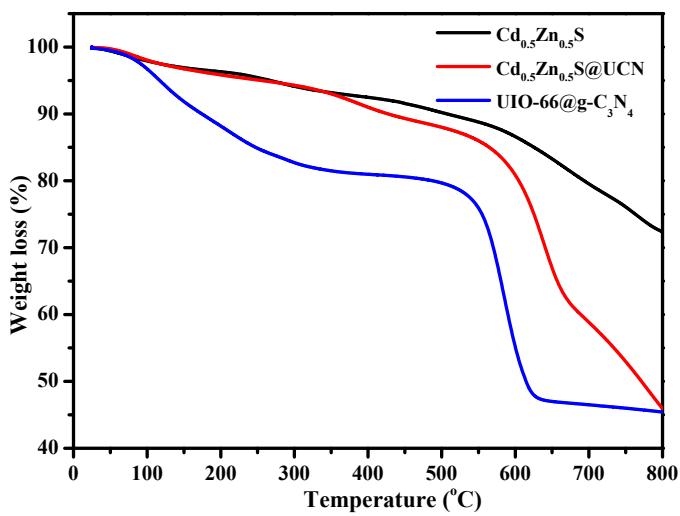


Fig. S3. TGA curves of UIO-66@g-C₃N₄, Cd_{0.5}Zn_{0.5}S and Cd_{0.5}Zn_{0.5}S@UCN.

Table S1. Porous characteristics of the as-prepared samples.

Sample	S _{BET} (m ² g ⁻¹)	S _{Langmuir} (m ² g ⁻¹)	Pore volume (cm ³ g ⁻¹)
UIO-66	948	1345	0.76
g-C ₃ N ₄	15	27	0.04
UIO-66@g-C ₃ N ₄	270	446	0.19
Cd _{0.5} Zn _{0.5} S@UCN30	147	233	0.11