

Supplementary Materials

Facile synthesis of novel $\text{CaIn}_2\text{S}_4/\text{ZnIn}_2\text{S}_4$ composites with efficient performance for photocatalytic reduction of Cr(VI) under simulated sunlight irradiation

Siyu Xu¹, Jun Dai^{1,3}, Juan Yang^{1,2,3*}, Jun You² and Jingyi Hao²

¹ Institute of Chemical Safety, School of Safety Science and Engineering, Henan Polytechnic University, Jiaozuo 454003, P.R. China; xusiyu2017@163.com; daijun@hpu.edu.cn

² Institute of Applied Chemistry, College of Chemistry and Chemical Engineering, Henan Polytechnic University, Jiaozuo 454003, P.R. China; youjunhpu@163.com; haojingyi2018@163.com

³ The Collaborative Innovation Center of Coal Safety Production of Henan, Henan Polytechnic University, Jiaozuo 454003, P.R. China

* Correspondence: yangjuanhpu@163.com; Tel.: +86-391-398-7881

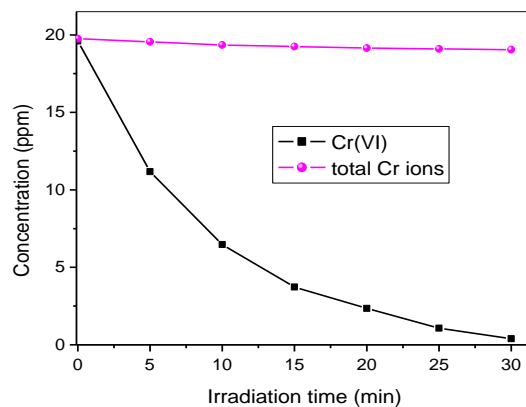


Figure S1. Concentrations of Cr(VI) and total Cr ions in the photocatalytic reaction solution over 30% $\text{CaIn}_2\text{S}_4/\text{ZnIn}_2\text{S}_4$ catalyst under simulated sunlight irradiation.

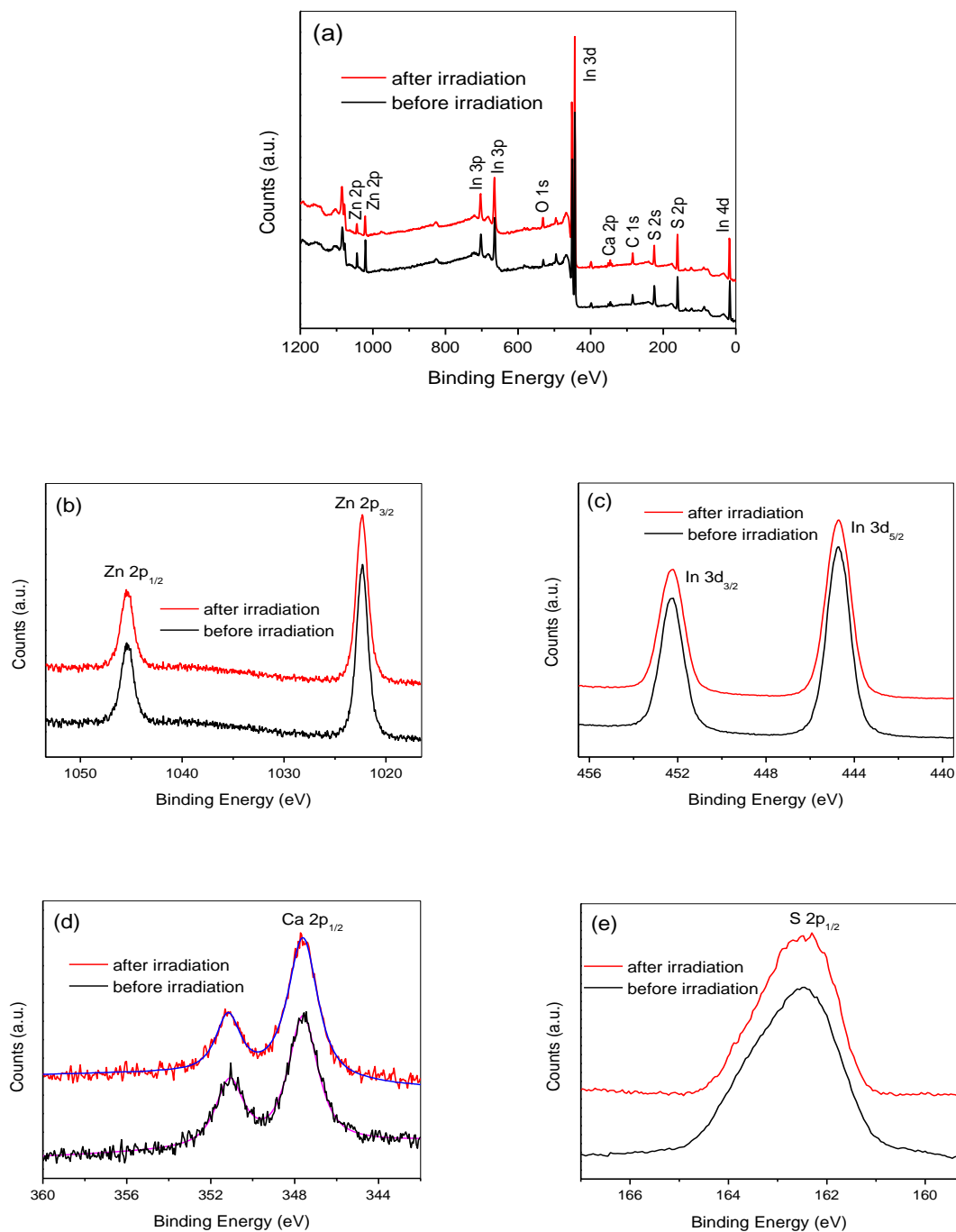


Figure S2. XPS survey spectra (a), high-resolution XPS spectra of Zn 2p (b), In 3d (c), Ca 2p (d), and S 2p (e) of 30% CaIn₂S₄/ZnIn₂S₄ composite sample before and after the photocatalytic reaction, respectively.