Comparative study of the photocatalytic performance for the degradation of different dyes by ZnIn$_2$S$_4$: Adsorption, active species, and pathways

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Fig. A.1 Nitrogen adsorption-desorption isotherms of ZnIn$_2$S$_4$ and the pore size distribution plot of ZnIn$_2$S$_4$ (inset).
Fig. A.2 Photocatalytic degradation of MO by ZnIn$_2$S$_4$ under visible light irradiation in the presence of scavengers (EDTA, benzoquinone, and isopropyl alcohol were used to capture holes, $\cdot O_2^-$, and $\cdot OH$, respectively).

![Graph showing photocatalytic degradation of MO by ZnIn$_2$S$_4$.]
Fig. A.3 UV-Vis diffuse reflectance spectra of ZnIn$_2$S$_4$. 
Fig. A.4 XPS spectra of ZnIn$_2$S$_4$. 

![XPS spectra of ZnIn$_2$S$_4$.](image-url)
**Fig. A.5** HPLC chromatograms of RhB degraded samples under visible irradiation at (a) 0 min and (b) 60 min.
Fig. A.6 UV-Vis spectra of degraded MO solution with an initial MO concentration of 5 mg/L and a ZnIn$_2$S$_4$ dosage of 0.3 g/L.
Fig. A.7 Mass spectrograms of proposed intermediates generated during photocatalytic degradation of MO by ZnIn$_2$S$_4$ under visible light irradiation.