**Highly Efficient In$_2$S$_3$/WO$_3$ Photocatalysts: Z-Scheme Photocatalytic Mechanism for Their Enhanced Photocatalytic Water Pollutants Degradation under Visible Light Irradiation**

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Figure. S1 XRD patterns of WI0, WI20, WI30, WI40 and WI50.

Figure. S2 The EDX mappings of WO$_3$.

Figure. S3 The EDX mappings of In$_2$S$_3$.

Figure S4. (a) UV-visible absorption spectra of Rh B solutions before and after photocatalytic degradation reaction under visible light irradiation in the presence of
WI40; (b) UV-visible absorption spectra of TCH solutions before and after photocatalytic degradation reaction under visible light irradiation in the presence of WI40.

Figure S5. The solution pH for (a) Rh B and (b) TCH degradation by WI40 under visible light irradiation.

Figure S6. Photocatalytic degradation performance of (a) WI40 and (b) the physical mixture of In$_2$S$_3$(40 wt %)/WO$_3$ for Rh B and TCH under visible light irradiation.
Figure S7. XRD patterns of WI40 before and after photocatalytic degradation reaction.