

Functionalization of ZnO Aggregate Films via Iodine-Doping and TiO₂ Decorating for Enhanced Visible-Light-Driven Photocatalytic Activity and Stability

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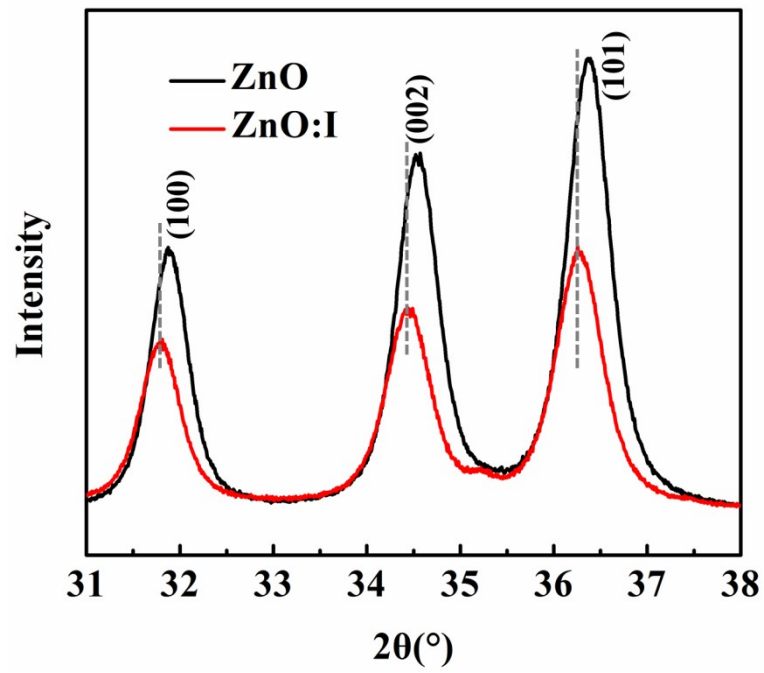


Fig. S1. The fine-scanned (100), (002), and (101) peaks of ZnO and ZnO:I, showing the peaks shifting due to the doping.

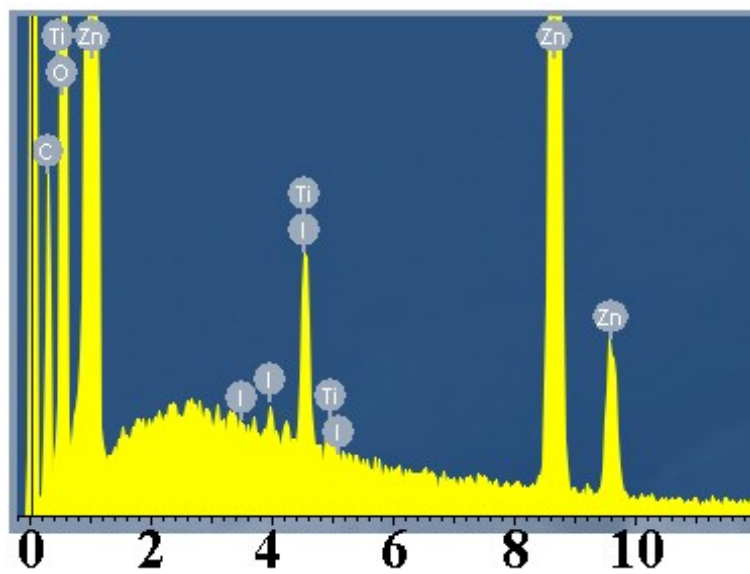


Fig. S2. EDS image of ZnO:I@TiO₂ aggregate film.

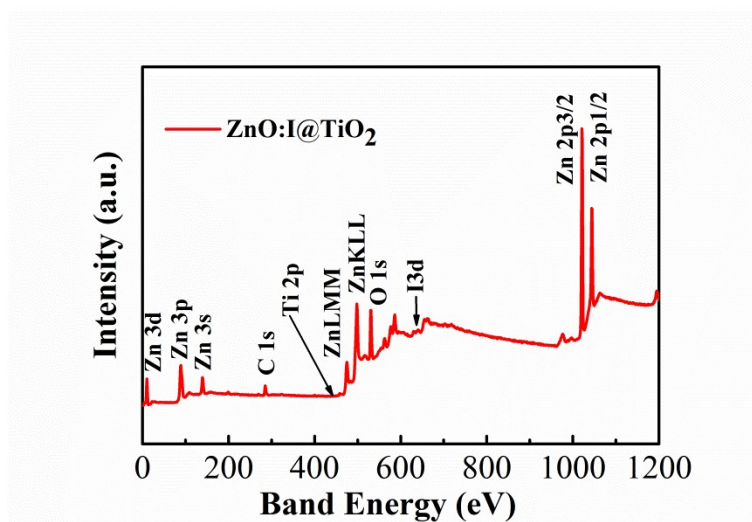


Fig. S3. XPS survey spectrum of ZnO:I@TiO₂ film.

Table S1. Photodegradation rate constants of RhB over different catalysts using $\ln(C_0/C) = k_a t$ as fitting equation

Photocatalysts	Ka [h⁻¹]	R²
Pure ZnO	0.194	0.999
P25	0.229	0.991
2.5%ZnO:I	0.361	0.990
5.0%ZnO:I	0.681	0.999
7.5%ZnO:I	0.496	0.994
5.0%ZnO:I@TiO ₂	0.855	0.998