

Supporting Information

Tab. S1 Degradation rates of PZT and PZT/Ag₂O to RhB under different conditions

Tab. S2 k values for RhB degradation kinetics under different conditions

Tab. S3 Degradation rate of RhB in PZT/Ag₂O piezo-/photocatalysis at different cycle degradation times

Tab. S1 Degradation rates of PZT and PZT/Ag₂O to RhB under different conditions

Conditions	PZT+L	PZT+UI	PZT+L+UI	PZT/Ag ₂ O+ UI	PZT/Ag ₂ O+ L	PZT/Ag ₂ O+L+UI
Degradation rate (%)	14.74	36.54	46.05	55.98	65.14	96.31

Tab. S2 k values for RhB degradation kinetics under different conditions

Conditions	PZT+L	PZT+UI	PZT+L+UI	PZT/Ag ₂ O+UI	PZT/Ag ₂ O+L	PZT/Ag ₂ O+L+UI
K	0.0024	0.0075	0.0102	0.0135	0.0177	0.0530

Tab. S3 Degradation rate of RhB in PZT/Ag₂O piezo-/photocatalysis at different cycle degradation times

Cycles times	1	2	3	4	5
PZT/Ag ₂ O	96.31%	94.53%	90.2%	88.66%	86%