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Supplementary Material

Scheme. S1 The simulation diagram of experimental procedure.



Fig. S1 AO7 minimal removal by PMS. Reaction conditions: $[PMS]_0=5 \times 10^{-4}M$, $[AO7]_0=0.02mM$, pH=6.0. C and C₀ are AO7 concentration at time t and initial.



Fig. S2 AO7 minimal removal by $ZnO@Fe_3O_4/H_2O_2$ system. Reaction conditions: $[H_2O_2]_0=5 \times 10^{-4}M$, $[AO7]_0=0.02mM$, pH=6.0. C and C₀ are AO7 concentration at time t and initial.



Fig. S3 AO7 removal by ZnO@Fe₃O₄/PMS system under N₂ inert atmosphere. Reaction conditions: $[PMS]_0=5 \times 10^{-4}M$, $[AO7]_0=0.02mM$, pH=6.0, DO=0.07mgL⁻¹. C and C₀ are AO7 concentration at time t and initial.



Fig. S4 AO7 minimal removal by 5.8mgL^{-1} Zn²⁺. Reaction conditions: [PMS]₀= 5×10^{-4} M, [AO7]₀=0.02mM, pH=6.0. C and C₀ are AO7 concentration at time t and initial.