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Supplementary Materials

Sulfate Decelerated Ferrous ion-Activated Persulfate Oxidation of Azo Dye Reactive Brilliant Red: Influence Factors, Mechanisms, and Control Methods

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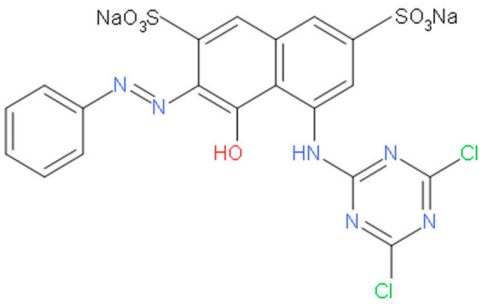

Figure S1. Molecular structure formula of reactive brilliant red X-3B.

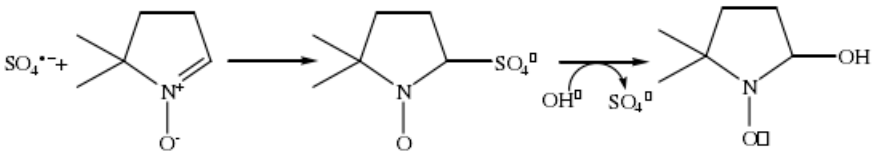

Figure S2. Conversion of DMPO-SO_4 to DMPO-OH.

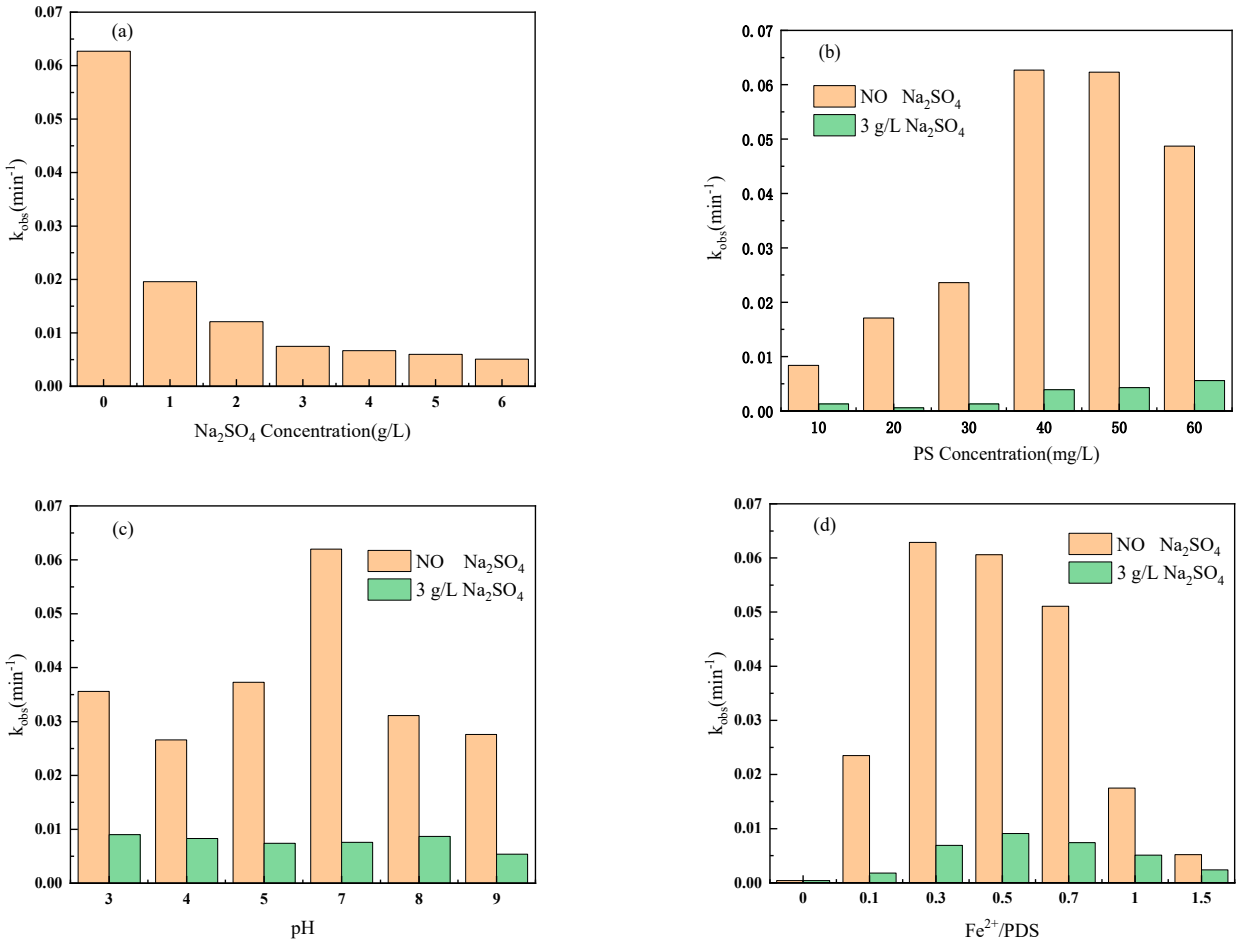

Figure S3. Variation of the chemical reaction rate constant k_{obs} for the system under different reaction conditions: (**a**) Na_2SO_4 concentration, (**b**) PS concentration, (**c**) pH, (**d**) Fe^{2+}/PDS.

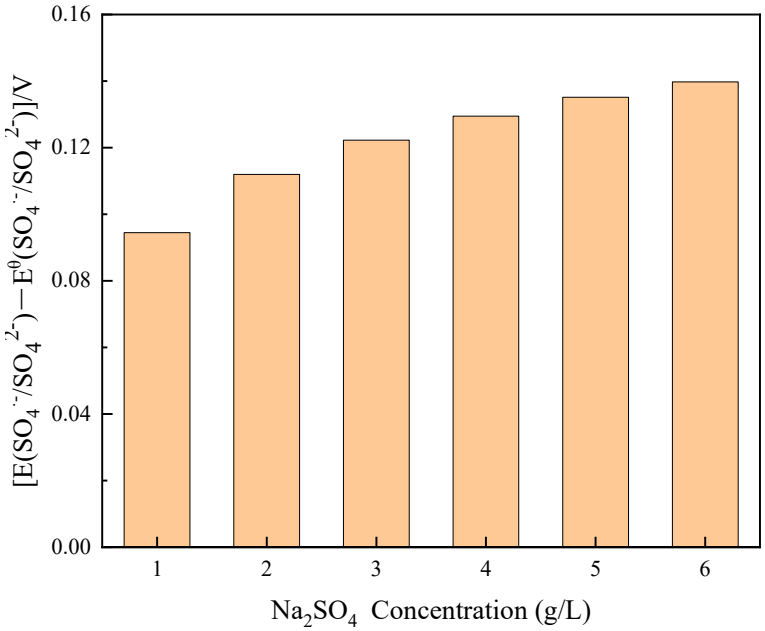

Figure S4. Variation of $[E(SO_4^{\cdot-}/SO_4^{2-}) - E^{\theta}(SO_4^{\cdot-}/SO_4^{2-})]$ of the system at different Na_2SO_4 concentrations.