

**Magnetic ZnFe₂O₄@chitosan encapsulated in graphene oxide
for adsorptive removal of organic dye**

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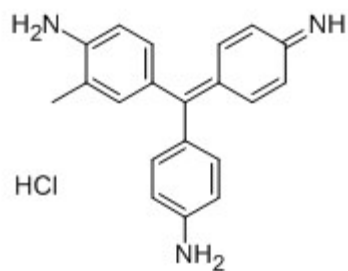


Fig.S1. Chemical structure of the Fuchsin basic (BF).

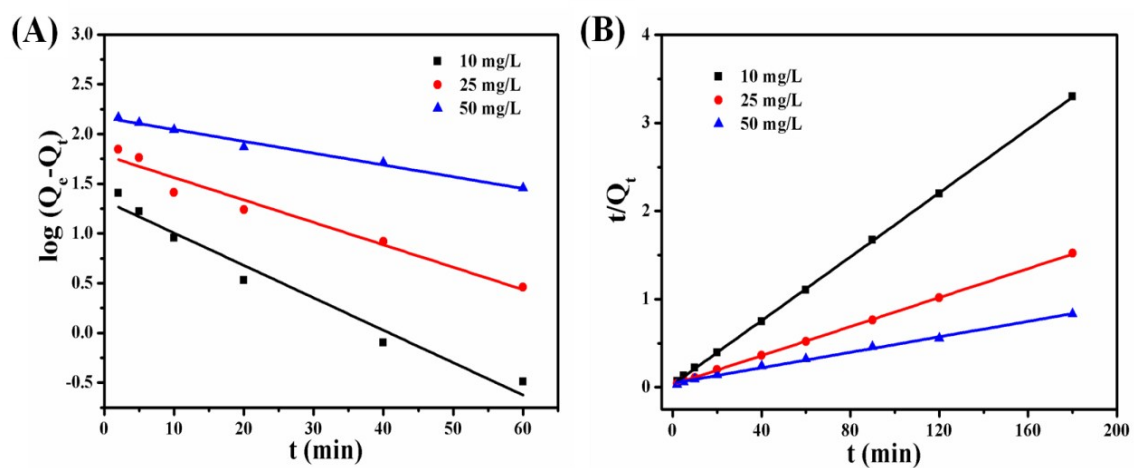


Fig.S2. Pseudo-first-order kinetic (A) and pseudo-second-order kinetic (B) plots for the adsorption of BF (pH 9, temperature: 303 K).

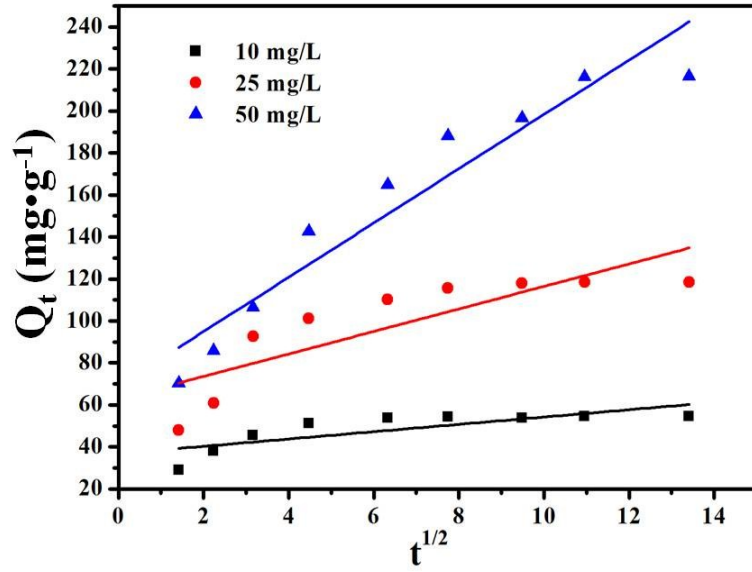


Fig.S3. Intraparticle diffusion model plots for the adsorption of BF (pH 9, temperature: 303 K).

Table S1 Adsorption kinetic parameters of BF onto ZnFe₂O₄@CS/GO.

Initial conc. C ₀ (mg·L ⁻¹)	Pseudo-first-order			Pseudo-second-order			R ²
	K ₁ (min ⁻¹)	Q _{e,cal} (mg·g ⁻¹)	R ²	K ₂ (g·mg ⁻¹ min ⁻¹)	Q _{e,cal} (mg·g ⁻¹)	Q _{e,exp} (mg·g ⁻¹)	
10	0.033	3.79	0.9644	0.011	55.19	54.56	0.9999
25	0.023	5.98	0.9524	0.0023	121.36	118.25	0.9998
50	0.012	8.71	0.9840	0.00042	227.79	216.52	0.9961