

2D-3D magnetic NiFe layered double hydroxide decorated biotemplate as bifunctional material for simultaneously anionic and cationic dyes adsorption

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Supporting information

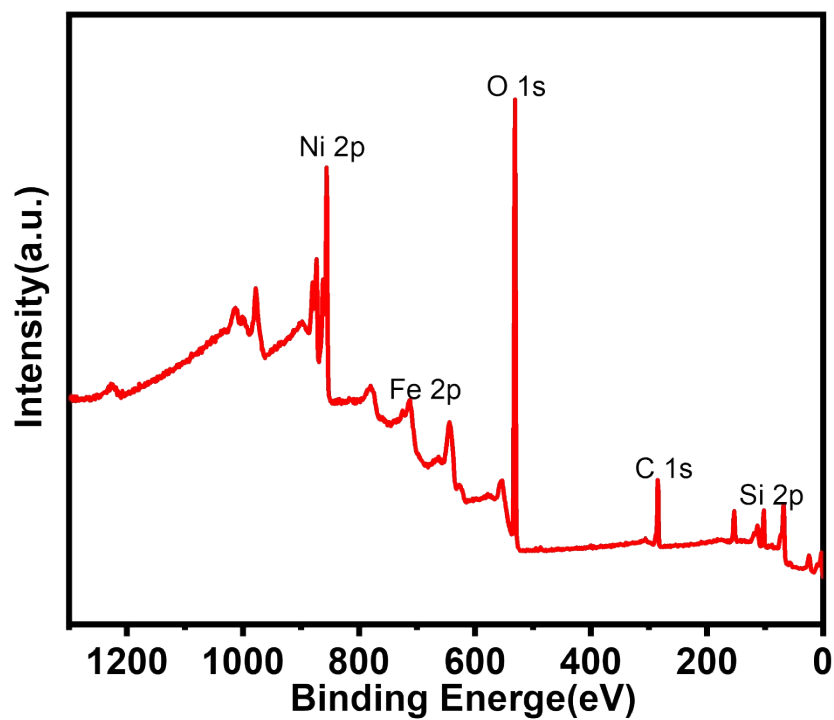


Fig.S1. XPS survey spectrum of DE@Ni₄Fe₁ LDH

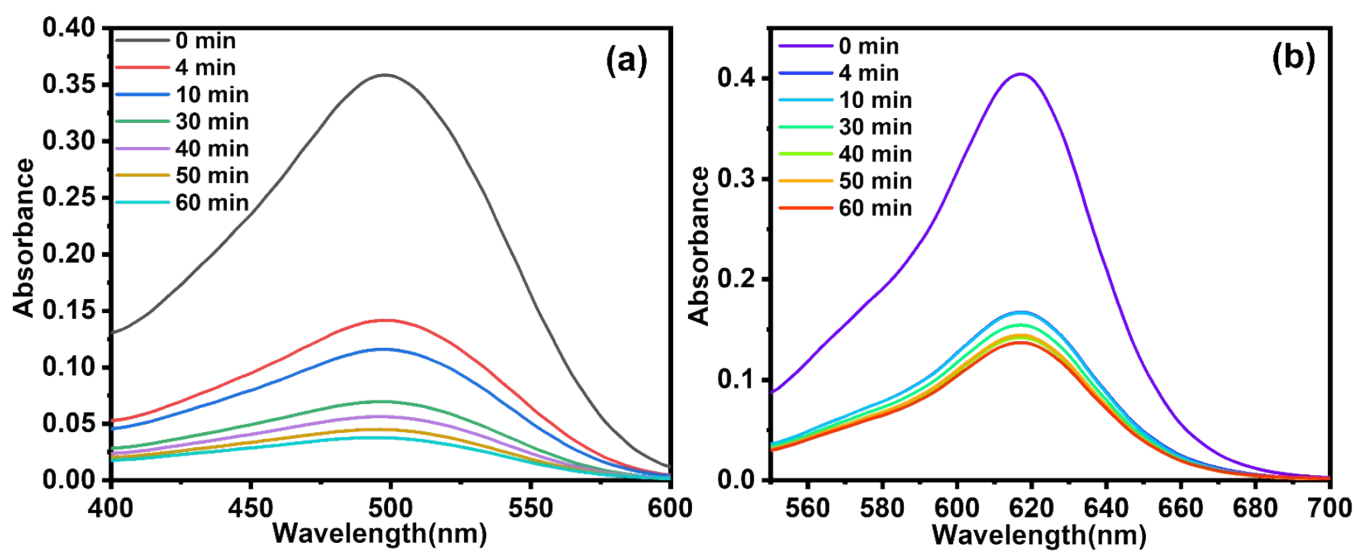


Fig.S2. UV-Vis absorption spectra of 20 mg L⁻¹ (a) congo red, (b) malachite green after adsorption by DE@Ni₄Fe₁ LDH with different contact times.

Table S1. Characterization data of the as-synthesized DE@NiFe LDH.

Sample	d₍₀₀₃₎ (nm)	d₍₁₁₀₎ (nm)	c (nm)	a (nm)	σ(nm²)
DE@Ni ₂ Fe ₁	0.755	0.154	2.266	0.307	0.041
DE@Ni ₃ Fe ₁	0.764	0.154	2.291	0.307	0.027
DE@Ni ₄ Fe ₁	0.771	0.1354	2.312	0.307	0.020