

Supplementary material: A Magnetic Reduced Graphene Oxide Nanocomposite: Synthesis, Characterization, and Application for High-Efficiency Detoxification of Aflatoxin B₁

Table S1. Nitrogen sorption-desorption experiments of the Fe₃O₄@rGOs produced under different preparation temperatures.

Reaction temperature (°C)	Surface area (m ² ·g ⁻¹)	Pore volume (cm ³ ·g ⁻¹)	Pore diameter (nm)
180	80.240	0.063	3.066
200	87.094	0.483	3.428
220	57.145	0.351	3.070

Table S2. Maximum adsorption capacity (Q_m/mg·g⁻¹) of AFB₁ by various absorbents in previous reports.

Absorbents	Q _m (mg·g ⁻¹)	References
Functionalized nanoflower-like hydroxyl magnesium silicate	27.34	[19]
Modified nano-montmorillonite	9.33	[20]
Magnetic graphene composite adsorbents	1.48	[29]
Tannic acid pillared bentonite composite	86	[37]
Cross-linked chitosan	5.67	[41]
Grape pomace	15.0	[42]
Chitosan modified GO	9.6	[43]
Flower-like mesoporous magnesium silicate composites	21.26	[44]
Nonionic surfactant modified montmorillonite	2.78	[45]
Fe ₃ O ₄ @ rGO	82.64	In this study