

Supporting information for

**A facile precipitation synthesis of mesoporous 2-line
ferrihydrite with good fluoride removal properties**

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Table S1 Comparison of Weber and Morris model, and Bangham's model parameters (temperature = 25 °C, adsorbent dose = 1 g L⁻¹, pH = 7.0).

Weber and Morris model				
C_0 (mg L ⁻¹)	k_{ip1} (mg g ⁻¹ min ^{-0.5})	R^2	k_{ip2} (mg g ⁻¹ min ^{-0.5})	R^2
2.5	0.0041	0.8978	0.0003	0.9680
5	0.0263	0.7174	0.0043	0.9023
10	0.2234	0.7692	0.0060	0.8925
Bangham's model				
C_0 (mg L ⁻¹)	K_b (mL(g L ⁻¹) ⁻¹)	α	R^2	
2.5	850.4	0.0398	0.9960	
5	607.7	0.0533	0.9425	
10	425.5	0.1481	0.9854	

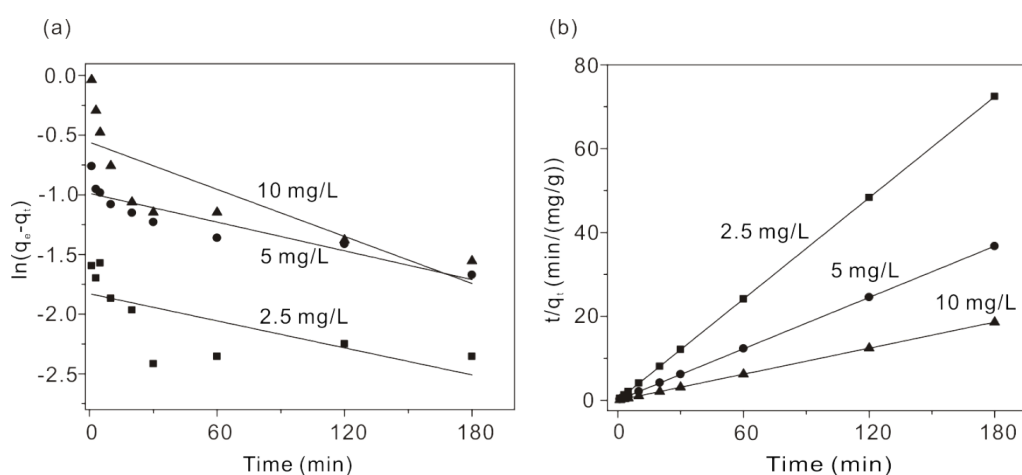


Fig. S1. Kinetics modeling of fluoride adsorption pseudo-first-order kinetic plots (a) and pseudo-second-order kinetic plots (b).