

Fig. S1. Intraparticle diffusion model of fluoride adsorption on Fe-CTS and FeCl<sub>3</sub>-Fe-CTS at fluoride initial concentration of 10 mg/L

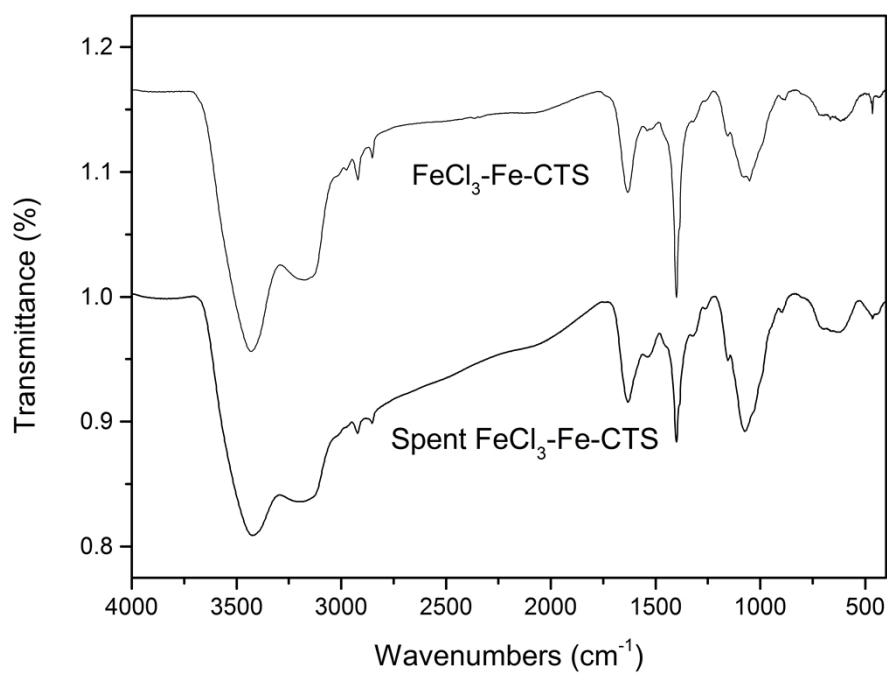


Fig. S2. FTIR spectra of FeCl<sub>3</sub>-Fe-CTS and spent FeCl<sub>3</sub>-Fe-CTS

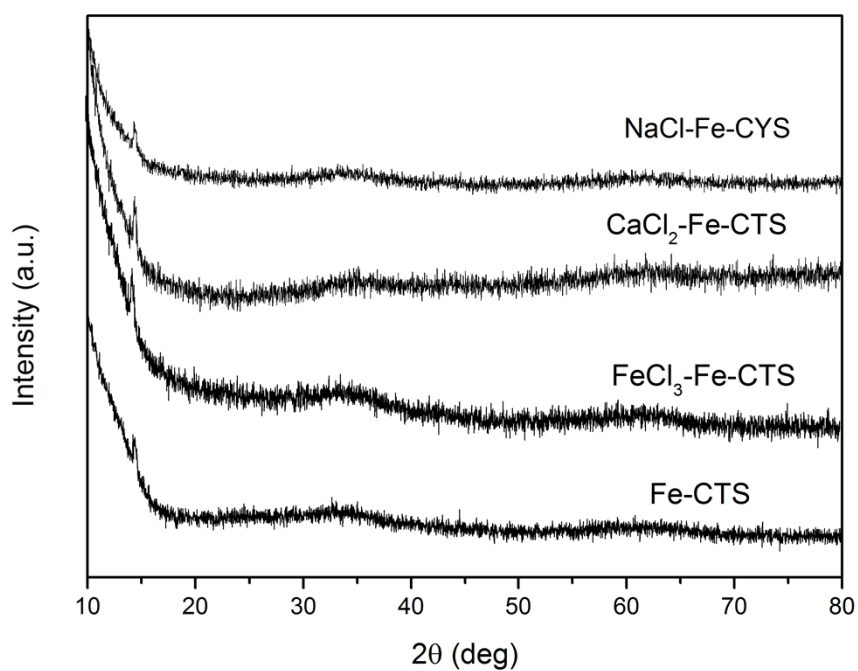


Fig. S3. XRD patterns of Fe-CTS, FeCl<sub>3</sub>-Fe-CTS, CaCl<sub>2</sub>-Fe-CTS, and NaCl-Fe-CTS

Table S1 pH of CaCl<sub>2</sub> and NaCl solution after regeneration

Concentration of Ca <sup>2+</sup> (mg/L)	30	60	90	120	150
pH of solution after regeneration	4.65	4.61	4.27	4.77	4.76
Concentration of Cl <sup>-</sup> in NaCl (mg/L)	57.05	114.11	171.16	285.27	532.5
pH of solution after regeneration	4.65	4.66	4.64	4.77	4.9