

**Electronic Supplementary Information**

Table. the change in F<sup>-</sup> and Cl<sup>-</sup> molar concentration with initial fluoride concentration in an aqueous solution after adsorption

initial fluoride concentration (mg/L)	the increase in Cl (mmol/L)	the decrease in F (mmol/L)
5	0.3259	0.2491
10	0.677	0.4924
25	0.8267	1.2059
50	1.4083	2.1631
100	2.7597	3.9288