Supplementary information

Adsorption-desorption of Cd(II) and Pb(II) on Ca-montmorillonite

Yan Li,[†,‡] *Ji-de Wang,*[*§] *Xiao-jun Wang,*[*†] *Juan-fang Wang*[†]

[†] Xinjiang Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Urumqi 830011, P.R. China

[‡] Graduate School of the Chinese Academy of Sciences, Beijing 100049, P.R. China

[§] Xijiang University, Urumqi 830046, P.R. China

Values obtained by calculation from the pseudo-second order kinetic equation and their fitting to the experimental results were showed in Figure1 and Table 1.

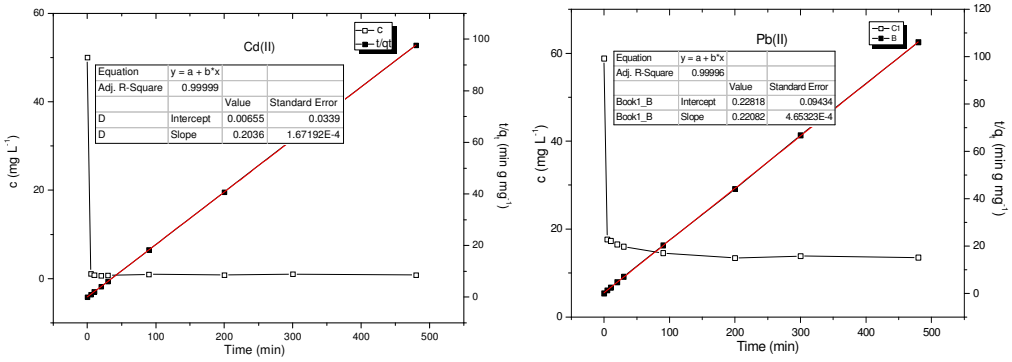

Figure 1. The effect of contact time on adsorption of Cd(II) and Pb(II), and the second-order kinetics sduty for adsorption of Cd(II) and Pb(II) (temperature: 303 K; working concentration: Cd(II), 50 mg L^{-1}; Pb(II), 58.79 mg L^{-1})

Table 1. Kinetics parameters for adsorption of Cd(II) and Pb(II) at 303 K (working concentration: Cd(II), 50 mg L^{-1}; Pb(II), 58.79 mg L^{-1}).

Heavy metal	Amount of adsorption (mg g^{-1})		Deviation (%)	k (g mg^{-1} min^{-1})	R^2
	Experimental	Calculated			
Cd	4.9150	4.9116	-0.0692	6.3287	0.999
Pb	4.4940	4.5286	0.7640	0.2137	0.999