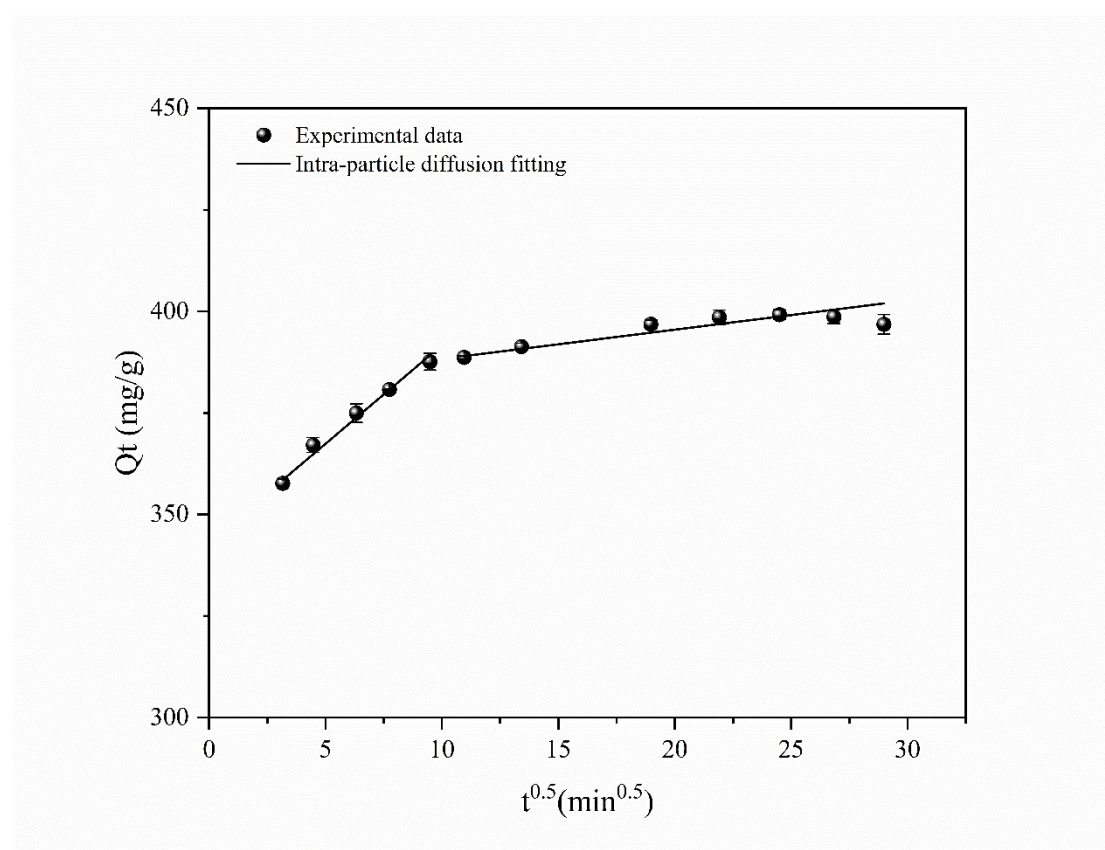


**Table S1.** Comparison Kinetic models of pseudo-first-order and pseudo-second-order for adsorption of Cr(VI)

Statistical parameters	pseudo-first-order	pseudo-second-order
$R^2$	0.9912	0.9966
$R^2_{\text{Pred}}$	0.9575	0.9939
ARE	0.0373	0.0161

**Table S2.** Parameters of the intraparticle diffusion model for Cr(VI) adsorption

Intra-particle diffusion( $R^2$ )	
0.9942(1)	0.9241(2)



**Fig. S1** intraparticle diffusion model for Cr(VI) adsorption