

 \succ CHIZO used for fluoride adsorption is a composite of HIZO and β -CD. It is an amorphous functional material with irregular surface Published in RSC Adv., 2016, 6, 93842–93854)

	•		Adsorbent	Pseudo-first order $q_t = q_e [1 - exp(-k_1.t)]$				Pseudo-second order $q_t = t.k_2.q_e^2/(1+k_2q_et)$			
·····		tration ([F _o], mg.L ⁻¹)		k_1	q_e	<i>R</i> ²	χ2	k ₂	q_e	<i>R</i> ²	
	 : pH 7 : pH 3 	10	CHIZO (pH=3.0)	0.364	8.38	0.68	0.107	0.0977	8.768	0.97	0
75 in)	100 125		CHIZO (pH=7.0)	0.374	8.21	0.72	0.077	0.1087	8.556	0.98	0.0

pecies	[F] ₀ (mgL ⁻¹)	⊿ <i>H</i> ⁰ (kJmol ⁻¹)	⊿ <i>S</i> ⁰ (Jmol ⁻¹ K ⁻¹)		⊿G ⁰ (kJmol⁻¹)	
IZO	25	59.89	-209.66 -	288K -0.81	303K 0.015	318K 1.126

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