

**Table. S1** The fitting parameters of different kinetics models.

sample	solution	Pseudo-first-order model			Pseudo-second-order model		
		$q_e$ (mg/g)	$k_1$ ( $\text{min}^{-1}$ )	$R^2$	$q_e$ (mg/g)	$k_2$ ( $\text{min}^{-1}$ )	$R^2$
BiOBr	RhB	24.38	0.2595	0.9950	25.35	0.0241	0.9991
	TCH	3.81	0.8666	0.9909	3.89	0.6430	0.9999
BiOBr/SLCNF	RhB	48.96	2.5825	0.9948	49.8	0.1149	0.9999
	TCH	8.78	2.6033	0.9983	8.87	0.9170	0.9999