Fig. S1. Langmuir(a), Freundlich(b), Temkin(c), Redlich-Peterson(d) and Hill(e) sotherms models of ZIF-8 and ZIF-8@KCC-1
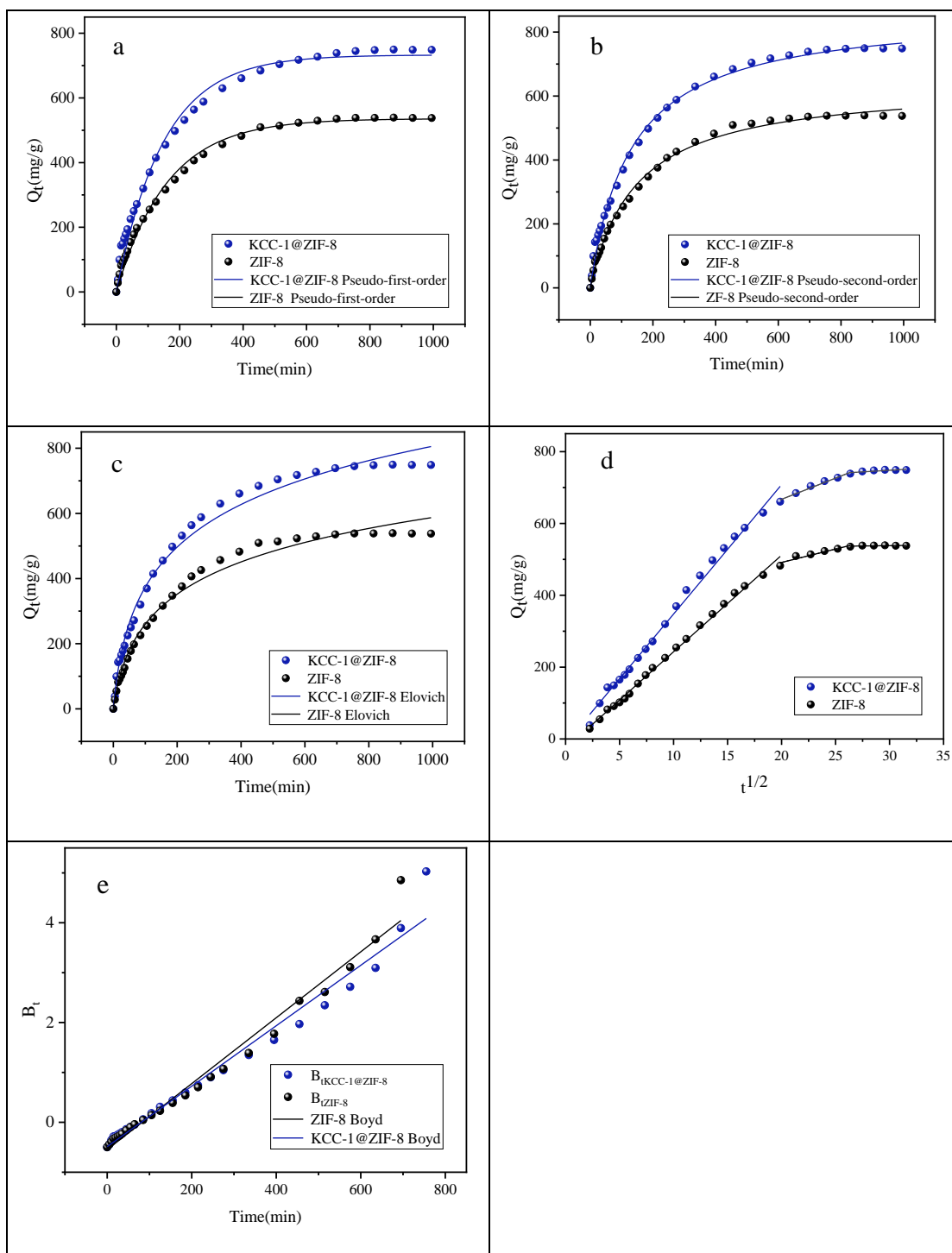
Fig. S2. Pseudo-first-order (PFO) (a), Pseudo-second-order (PSO) (b), Elovich(c), Weber-Morris intraparticle diffusion(d) and Boyd kinetic models for TC adsorption by KCC-1@ ZIF-8 and ZIF-8 nanocomposites

Table S1. Comparison of the adsorption performance between ZIF-8@ KCC-1 and other adsorbents.

Adsorbent	Adsorption capacity	Adsorption time	Reuse frequency	Reuse rate	Ref.
MGOS	473.0 mg/g	18 h	——	——	[37]
Cu-ZIF-8	156.5 mg/g	1 h	4	89.3%	[38]
Co/N-Mcs	344.8 mg/g	0.67 h	5	86%	[39]
BC	274.8 mg/g	19 h	——	——	[40]
CH-8	541.3 mg/g	2 h	4	82%	[41]
GO	313.0 mg/g	1.5 h	——	——	[42]
MBCP	476.0 mg/g	1 h	5	92%	[43]
KCC-1@ ZIF-8	751.46 mg/g	11 h	3	91%	this work