

Supporting Information

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Fig. S1 The competitive adsorption isotherms of 11 OPPs

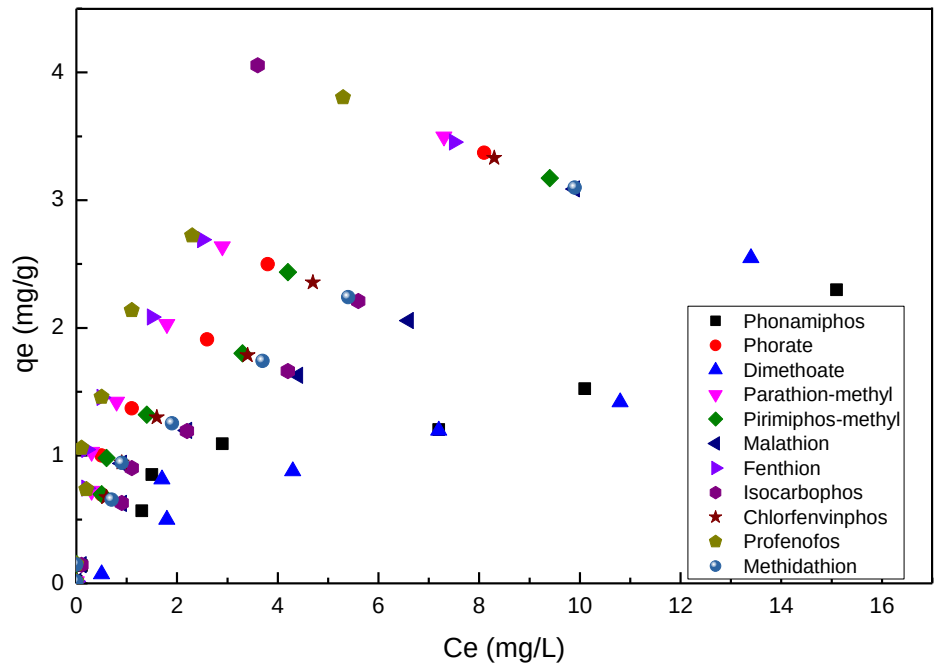


Table S1. The concentration of 11 OPPs after the adjustment of pH (original concentration was 10 mg/L).

pH value OPPs	Concentration (mg/L)			
	3	5	9	11
phonamiphos	5.59	8.30	12.22	11.03
phorate	3.29	3.76	4.79	3.96
dimethoate	0.09	0.74	12.33	11.40
parathion-methyl	6.32	7.34	9.52	8.47
pirimiphos-methyl	4.06	4.35	10.48	9.74
malathion	0.07	0.04	10.66	9.33
fenthion	3.93	3.98	4.80	4.04
isocarbophos	0.08	0.14	11.20	10.28
chlorfenvinphos	7.80	8.69	9.86	8.67
profenofos	0.09	0.15	5.00	4.24
methidathion	1.07	3.50	11.29	10.15

Table S2. Adorption isotherm parameters of 11 OPPs

isotherms	Pesticide	parameters		
Freundlich isotherm		$K_F((\text{mg/g})(\text{L/mg})^{1/n})$	n	R^2
	phonamiphos	1.9040	0.5215	0.9617
	dimethoate	1.1211	0.8630	0.8605
	pirimiphos-methyl	2.0704	1.1053	0.9685
	malathion	1.59241	0.7086	0.9721
	isocarbophos	1.3646	0.7783	0.8989
	chlorfenvinphos	1.7185	0.9499	0.9920
Temkin isotherm	methidathion	1.8278	0.8818	0.9840
		B	$K_T(\text{L/mg})$	R^2
	phorate	0.8654	4.8240	0.9632
	parathion-methyl	0.8061	8.8069	0.9733
Langmuir isotherm	fenthion	0.7008	16.8739	0.9826
		$q_m (\text{mg/g})$	$K_L (\text{L/mg})$	R^2
	profenofos	2.5940	2.9654	0.9457