

Table S1. CCD results for the adsorption of Cd(II), Hg(II), and As(III) by GO and GO-f

Run	pH	Adsorbent dose(mg)	Initial ion conc.(mg.L ⁻¹)	q_e (mg.g ⁻¹)					
				GO		As(III)		GO-f	
				Cd(II)	Hg(II)	As(III)	Cd(II)	Hg(II)	As(III)
1	4	20	50	25.00	15.00	11.25	31.25	25.00	16.25
2	4	10	20	17.00	10.00	9.00	22.00	19.00	12.00
3	7	23.5	35	60.32	53.62	29.04	67.02	64.04	37.98
4	7	15	35	81.67	75.83	35.00	93.33	89.83	47.83
5	4	20	20	12.50	7.50	5.50	15.00	12.50	9.00
6	4	10	50	30.00	21.25	20.00	40.00	35.00	25.00
7	10	10	20	51.00	42.00	19.00	70.00	62.00	21.00
8	7	15	35	81.67	75.83	33.83	93.33	89.83	47.83
9	7	15	35	82.83	77.00	35.00	93.33	89.83	49.00
10	7	15	35	81.67	75.83	35.00	95.67	89.83	46.67
11	2	15	35	11.67	9.33	7.00	15.17	11.67	10.50
12	10	20	20	27.50	23.00	11.00	39.50	33.00	13.00
13	12	15	35	44.33	31.50	11.67	70.00	54.83	18.67
14	7	6.6	35	169.70	153.79	68.94	201.52	188.26	90.15
15	7	15	60	134.00	120.00	54.00	148.00	138.00	74.00
16	10	20	50	61.25	51.25	21.25	90.00	75.00	27.50
17	7	15	35	81.67	75.83	35.00	93.33	91.00	47.83
18	10	10	50	117.50	92.50	37.50	162.50	142.50	42.50
19	7	15	35	82.83	75.83	35.00	94.50	89.83	47.83
20	7	15	10	24.33	22.33	11.33	29.67	29.33	15.33