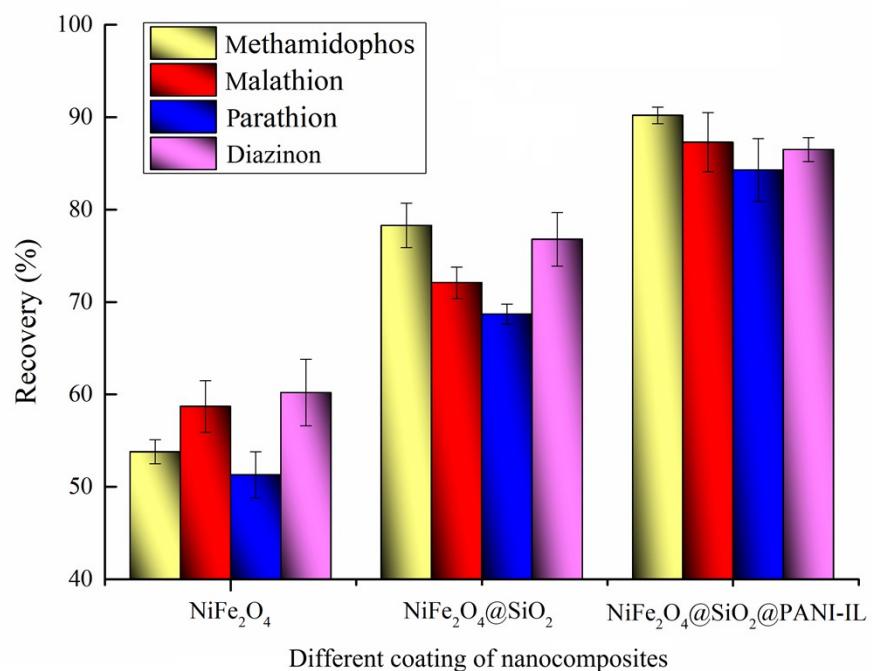
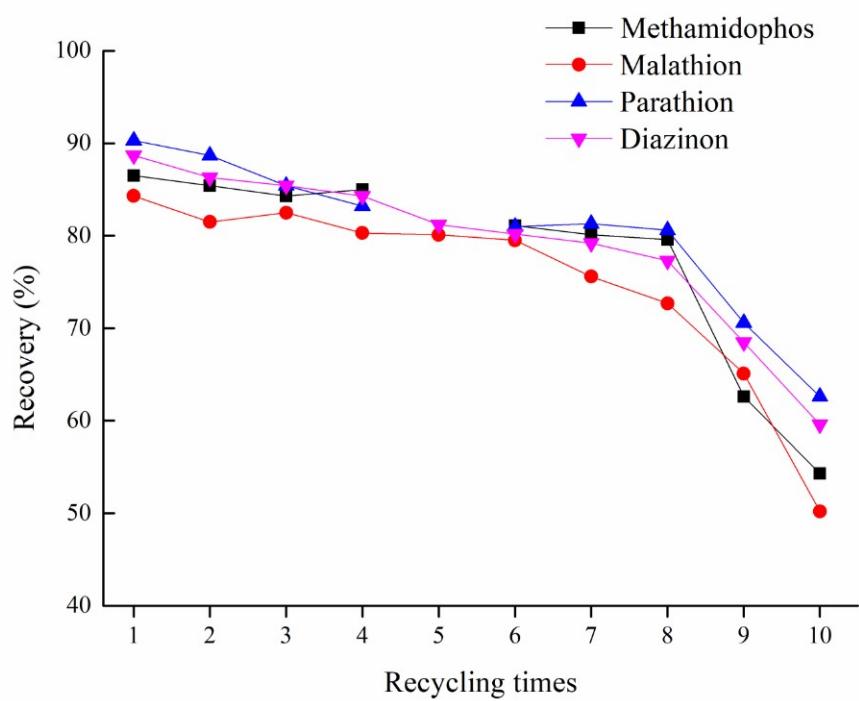


Supplementary figures



Supplementary Fig. 1. Comparison of the extraction efficiency for OPPs by the different coating of nanocomposites



Supplementary Fig. 2. Recycling of the as-synthesized nanocomposites

Supplementary Table 1. Surface element percentages of NiFe₂O₄, NiFe₂O₄@SiO₂ and NiFe₂O₄@SiO₂@PANI-IL

Materials	O (atom %)	Fe (atom %)	Ni (atom %)	Si (atom %)	C (atom %)	N (atom %)
NiFe ₂ O ₄	53.13	22.47	14.03	—	—	—
NiFe ₂ O ₄ @SiO ₂	60.07	8.39	4.48	19.49	—	—
NiFe ₂ O ₄ @SiO ₂ @PAN I-IL	16.60	2.51	1.21	3.41	65.60	6.69

Supplementary Table 2. Pore size distribution and crystalline properties of as-prepared nanomaterials

Materials	Surface area (m ² /g)	Pore size (nm)	Pore volume (cm ³ /g)
NiFe ₂ O ₄	104.53	13.74	0.302
NiFe ₂ O ₄ @SiO ₂	173.13	14.11	0.059
NiFe ₂ O ₄ @SiO ₂ @PANI-IL	81.12	17.94	0.136