

Supplementary materials

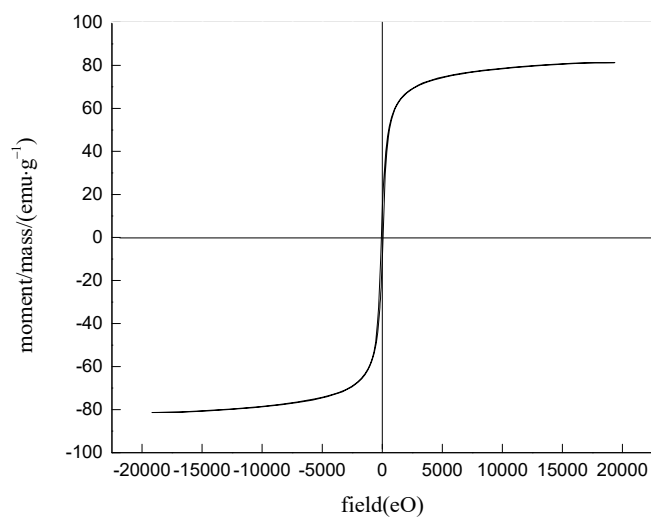
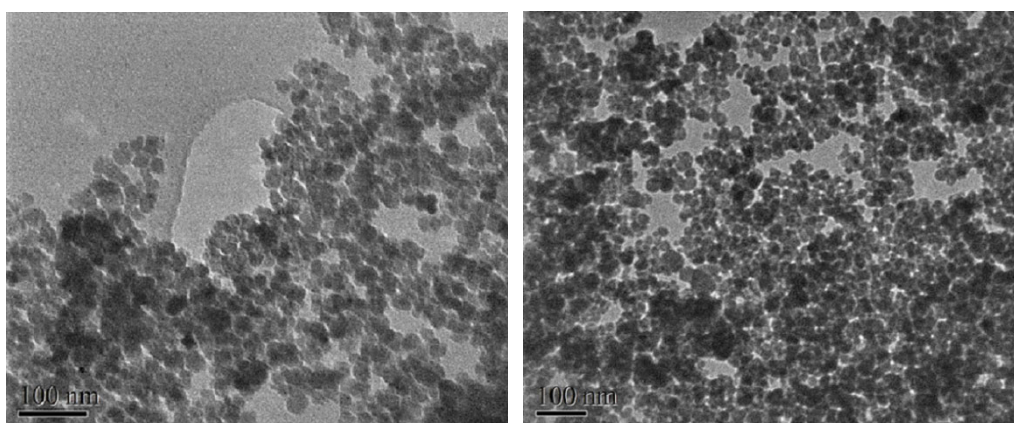


Fig. S1 VSM curve of the Fe_3O_4 nanoparticles from simulated wastewater with the combination of three promoters



(a)

(b)

Fig. S2 TEM image of the Fe_3O_4 nanoparticles made from simulated wastewater (a) and waste pickling liquor (b)

Table S1 Levels of factors for the reaction stage

	mixture /(r·min ⁻¹)	Fe ²⁺ /Fe ³⁺ mole ratio	pH
1	200	1:1.4	8
2	400	1:1.6	9
3	600	1:1.8	10
4	800	1:2	11

Table S2 Levels of factors for the reaction and aging stages

	reaction temperature /°C	growth temperature /°C	growth time /h
1	20	60	0.5
2	30	70	1
3	40	80	1.5
4	50	90	2