

Supplementary Information

Figure legends:

Fig.S1. Synthesis of $\text{Fe}_3\text{O}_4/\text{C}$ magnetic particles.

Fig.S2 The effect of solvent on the extraction yields of PAHs. Conditions of the extraction: 1.0 g sample; solvent volume: 20 mL; MAE time: 3 min.

Fig. S3. Recoveries of PAHs from aged samples after MAE.

Fig. S4 The response surface of BaA with different radiation power and time.

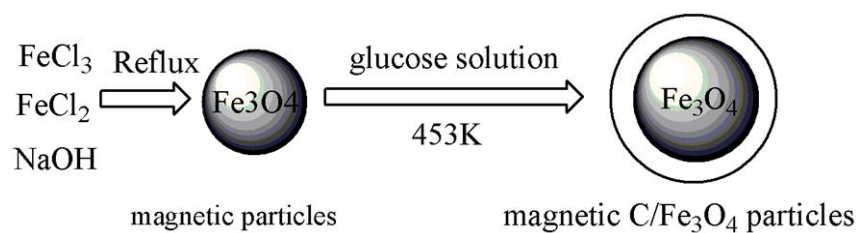


Fig. S1

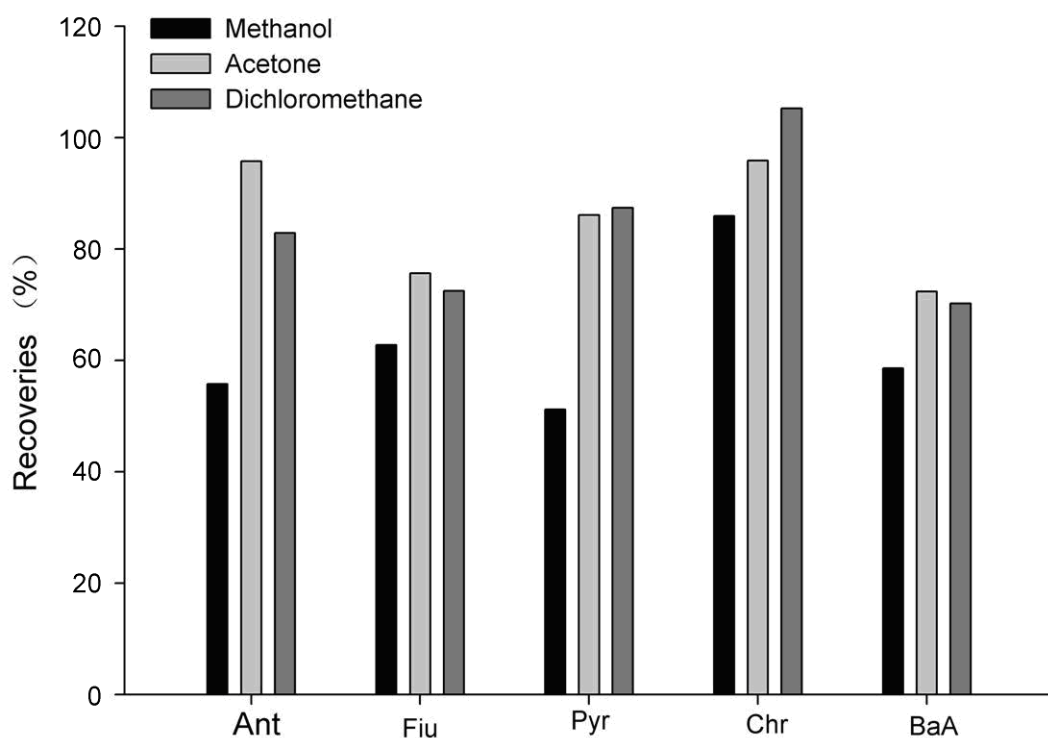


Fig. S2

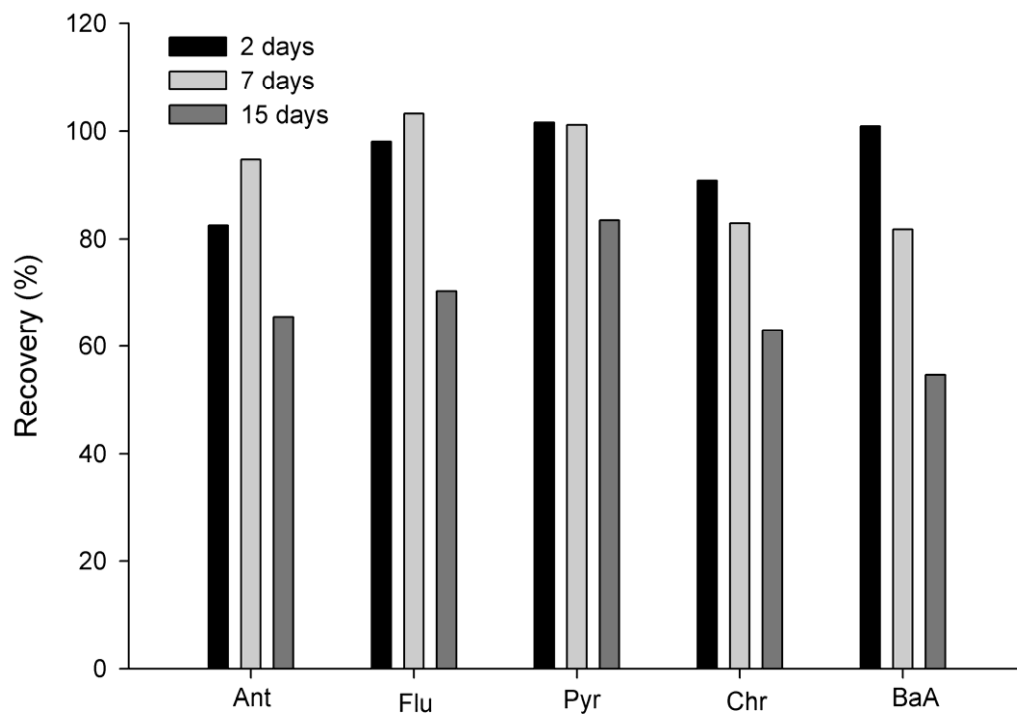


Fig. S3

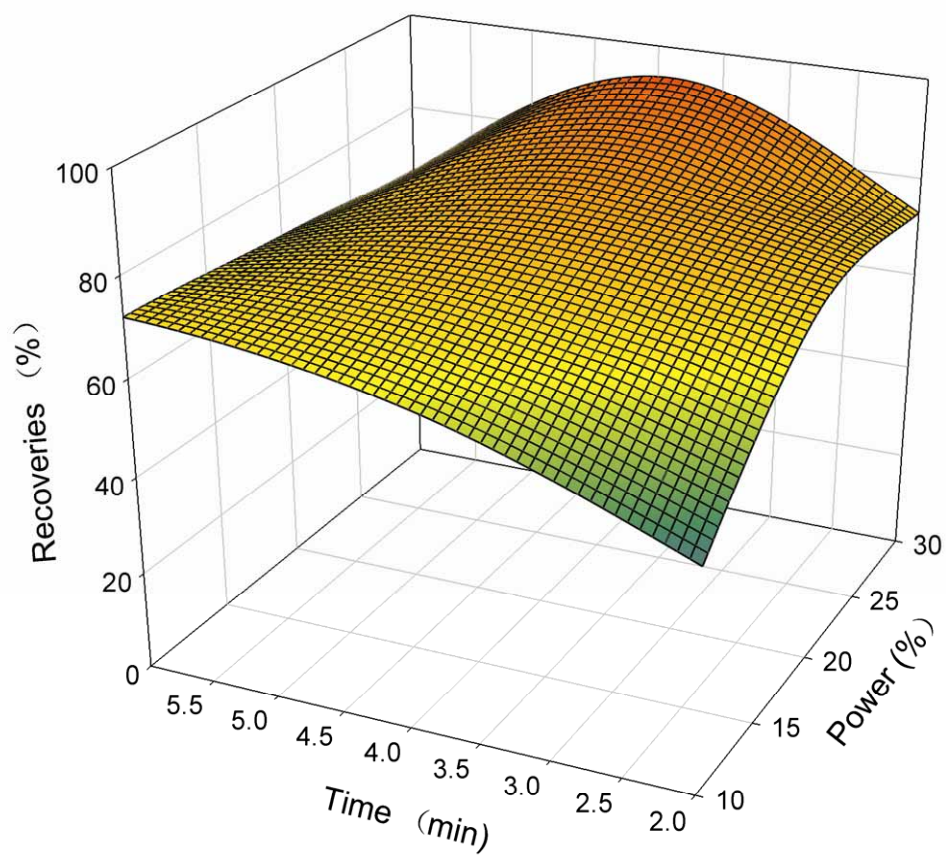


Fig.S4

Table S1

Runs employed for the effect of the radiation conditions over the recovery

Run number	1	2	3	4	5	6	7	8	9	10	11
Power (W)	200	200	200	400	400	400	400	400	600	600	600
Time (min)	2	4	6	2	4	4	4	6	2	4	6