

**Novel magnetic multi-template molecularly imprinted polymers for
specific separation and determination of three endocrine disrupting
compounds simultaneously in environmental water samples**

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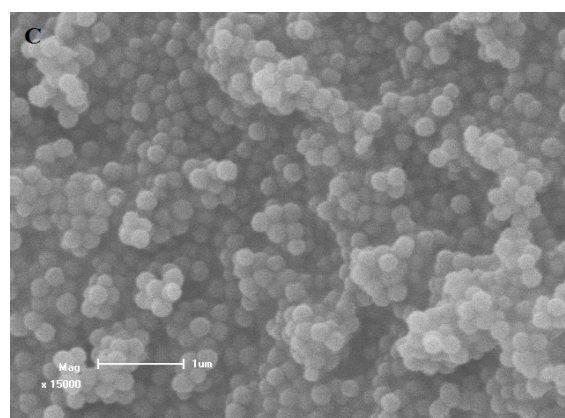
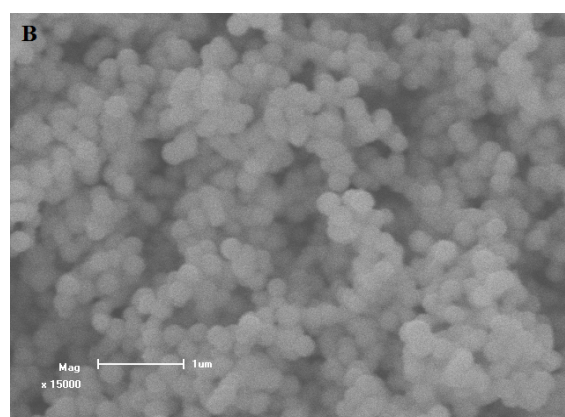
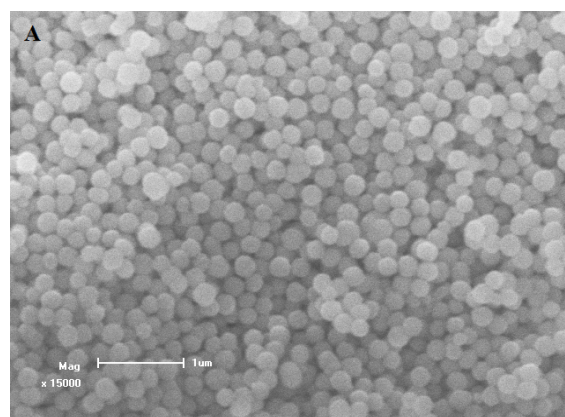


Fig. S1. SEM images of Fe_3O_4 (A), $\text{Fe}_3\text{O}_4@\text{SiO}_2$ (B), and $\text{Fe}_3\text{O}_4@\text{Multi-MIPs}$ (C).

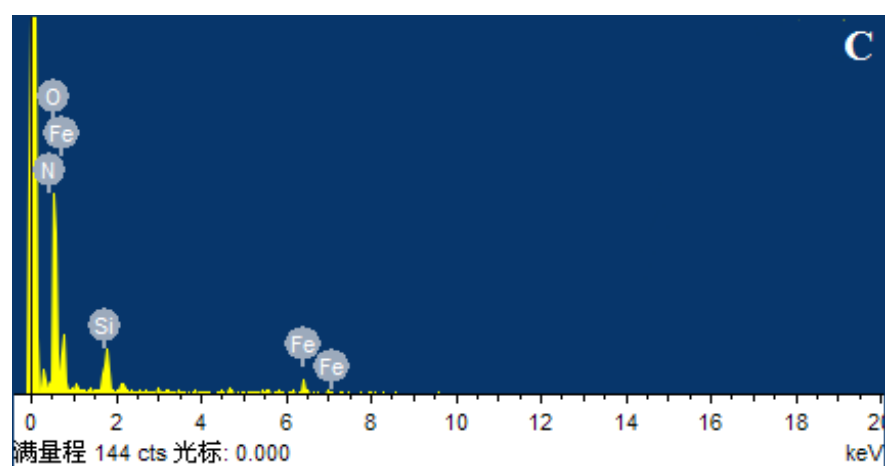
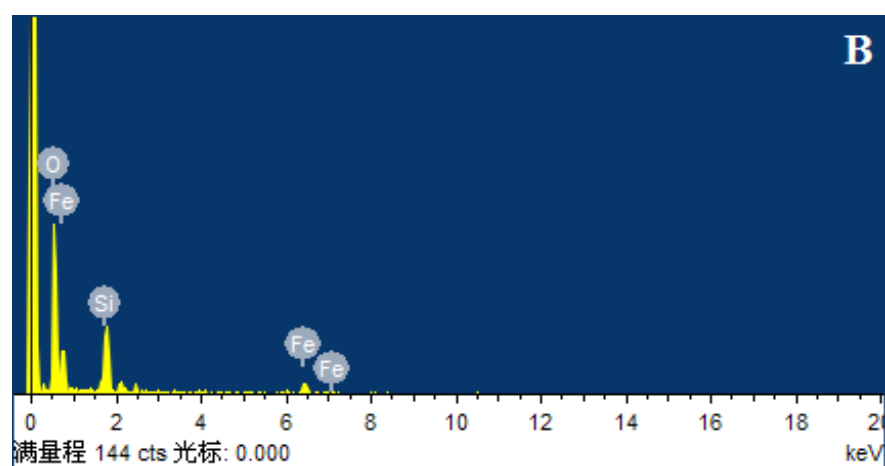
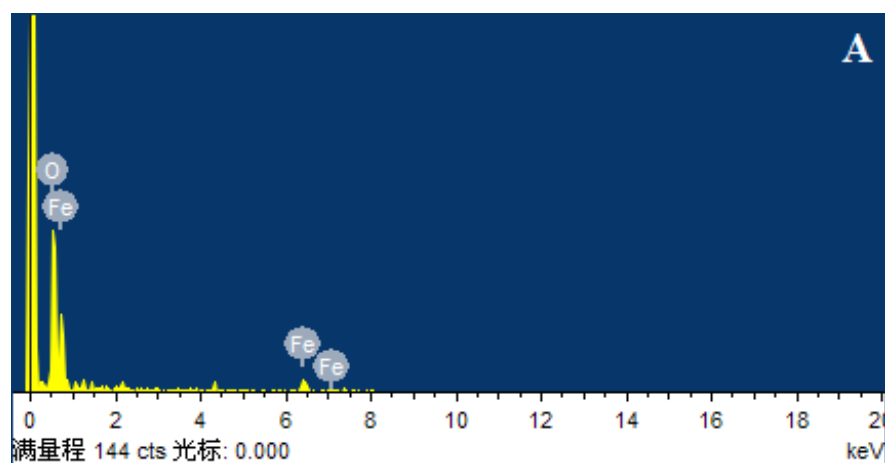


Fig. S2. EDS of Fe_3O_4 (A), $\text{Fe}_3\text{O}_4@\text{SiO}_2$ (B), and $\text{Fe}_3\text{O}_4@\text{Multi-MIPs}$ (C).

Table S1Langmuir equations and parameters of Fe₃O₄@Multi-MIPs and Fe₃O₄@NIPs.

Polymers	Analytes	Linear equations	<i>r</i>	<i>K_L</i> (L mg ⁻¹)	<i>Q_{max}</i> (mg g ⁻¹)
Fe ₃ O ₄ @Multi-MIPs	E2	$C_e/Q_e = 0.2671 C_e + 0.7717$	0.9985	0.3465	3.74
	E3	$C_e/Q_e = 0.1662 C_e + 0.2290$	0.9990	0.7254	6.02
	DES	$C_e/Q_e = 0.1452 C_e + 0.2765$	0.9971	0.5249	6.89
Fe ₃ O ₄ @NIPs	E2	$C_e/Q_e = 1.010 C_e + 3.565$	0.9983	0.2833	0.99
	E3	$C_e/Q_e = 0.8167 C_e + 2.632$	0.9986	0.3114	1.22
	DES	$C_e/Q_e = 0.4173 C_e + 1.242$	0.9980	0.3355	2.40

Table S2Reproducibility of Fe₃O₄@Multi-MIPs and Fe₃O₄@NIPs.

Polymers	Analytes	RSD (%)					
		1	2	3	4	5	6
Fe ₃ O ₄ @Multi-MIPs	E2	5.4	0.19	1.6	3.5	7.2	2.4
	E3	3.7	2.3	4.7	1.7	5.8	0.57
	DES	8.1	6.7	5.9	0.74	3.9	4.5
Fe ₃ O ₄ @NIPs	E2	6.4	4.5	0.83	3.2	2.5	7.2
	E3	5.1	3.2	2.8	4.3	6.4	8.6
	DES	3.9	5.6	4.1	3.7	7.8	2.1