

Supplementary Information

Magnetic conjugated microporous polymer hollow spheres decorated with Fe₃O₄ nanoparticles for selective absorption and sterilization

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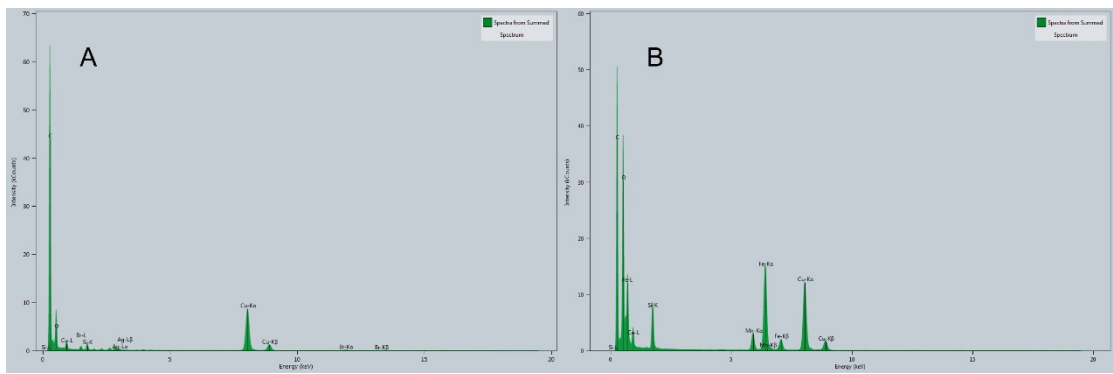


Figure 1 (A) EDS photographs of distribution of elements for C and Si on the surface of CMP-1. (B) EDS photographs of distribution of elements for C, Si and Fe on the surface of CMP-2.

Table 1 fitting result of Langmuir

Sample	antibiotic	equation of regression	R ²	q _{max} (mg g ⁻¹)	b _L (L mg ⁻¹)
CMP-1@Fe ₃ O ₄	OFL	Y=0.00565X+0.41589	0.9979	176.99	0.01358
CMP-2@Fe ₃ O ₄	OFL	Y=0.00545X+0.35321	0.9996	183.48	0.01543
CMP-1@Fe ₃ O ₄	DIF	Y=0.00490X+0.12375	0.9993	204.08	0.03959
CMP-2@Fe ₃ O ₄	DIF	Y=0.00504X+0.14804	0.9978	198.41	0.03405

Table 2 fitting result of Freundlich

Sample	antibiotic	equation of regression	R ²	k _F	1/n
CMP-1@Fe ₃ O ₄	OFL	Y=0.36682X+3.32929	0.9381	27.91	0.36682
CMP-2@Fe ₃ O ₄	OFL	Y=0.41878X+3.01862	0.9666	20.46	0.41878
CMP-1@Fe ₃ O ₄	DIF	Y=0.39839X+2.45186	0.9597	11.60	0.39839
CMP-2@Fe ₃ O ₄	DIF	Y=0.47331X+2.43296	0.9539	11.39	0.47331