

Article

Separation and Removal of Radionuclide Cesium from Water by Biodegradable Magnetic Prussian Blue Nanospheres

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Table S1. Parameters obtained from different isotherm models for MPBNs.

Adsorption model	Parameter	Equation	Determination coefficient
Langmuir model	$Q_m(\text{mg/g}) = 17.0271$ $b(\text{L/g}) = 0.5854$	$1/Q_e = 0.10032/C_e + 0.05873$	0.9750
Freundlich model	$K(\text{mg/g}) = 5.2485$ $1/n = 0.7085$	$\ln Q_e = 0.70854$ $\ln C_e + 1.65794$	0.9791
Temkin model	$A = 2.2412$ $B(\text{L/g}) = 8.4292$	$Q_e = 8.42922$ $\ln C_e + 6.80233$	0.9205

Table S2. Parameters of the Cs⁺ dimensionless separation factor (R_L) of the MPBNs.

$C_0(\text{mg/L})$	5	10	20	30	40	50	60
R_L	0.4059	0.2546	0.1459	0.0787	0.0041	0.0209	0.0168