

Supplementary Data

Article

Removal of Boron and Manganese Ions from the Wet-Flue Gas Desulfurization Wastewater by Hybrid Chitosan-Zirconium Sorbent

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Table S1. Langmuir, Freundlich and Dubinin-Radushkevich models of adsorption isotherms [46,47].

Model	Nonlinear equation	Linear equation	Plot
L	$q_e = q_m \times \frac{B \times C_e}{1 + B \times C_e}$	$\frac{1}{q_e} = \frac{1}{q_m \times B \times C_e} + \frac{1}{q_m}$	$\frac{1}{q_e} \text{ vs } \frac{1}{C_e}$
F	$q_e = K_F \times (C_e)^{1/n}$	$\log(q_e) = \log(k_F) + \frac{1}{n} \log(C_e)$	$\log(q_e) \text{ vs } \log(C_e)$
D-R	$q_e = (X_m) \exp(-k \times \varepsilon^2)$	$\ln(q_e) = \ln(X_m) - k \times \varepsilon^2$	$\ln(q_e) \text{ vs } \varepsilon^2$