Supplementary Material
1. XRD

Fig. S1. XRD patterns of o-MWCNTs and NH$_2$-MWCNTs.
2. Effect of contact time and high initial concentration

Fig. S2. Effect of contact time and high initial concentration on the adsorption of MO by NH$_2$-MWCNTs (experimental conditions: temperature: 293 K, adsorbent dose: 5 mg/25 mL).
3. Adsorption Thermodynamic

Fig. S3. Plots of \( \ln \frac{q_e}{C_e} \) versus \( q_e \) of sorption of MO onto NH\(_2\)-MWCNTs at different temperatures.
Fig. S4. Van’t Hoff plot for the adsorption of MO onto NH$_2$-MWCNTs.