

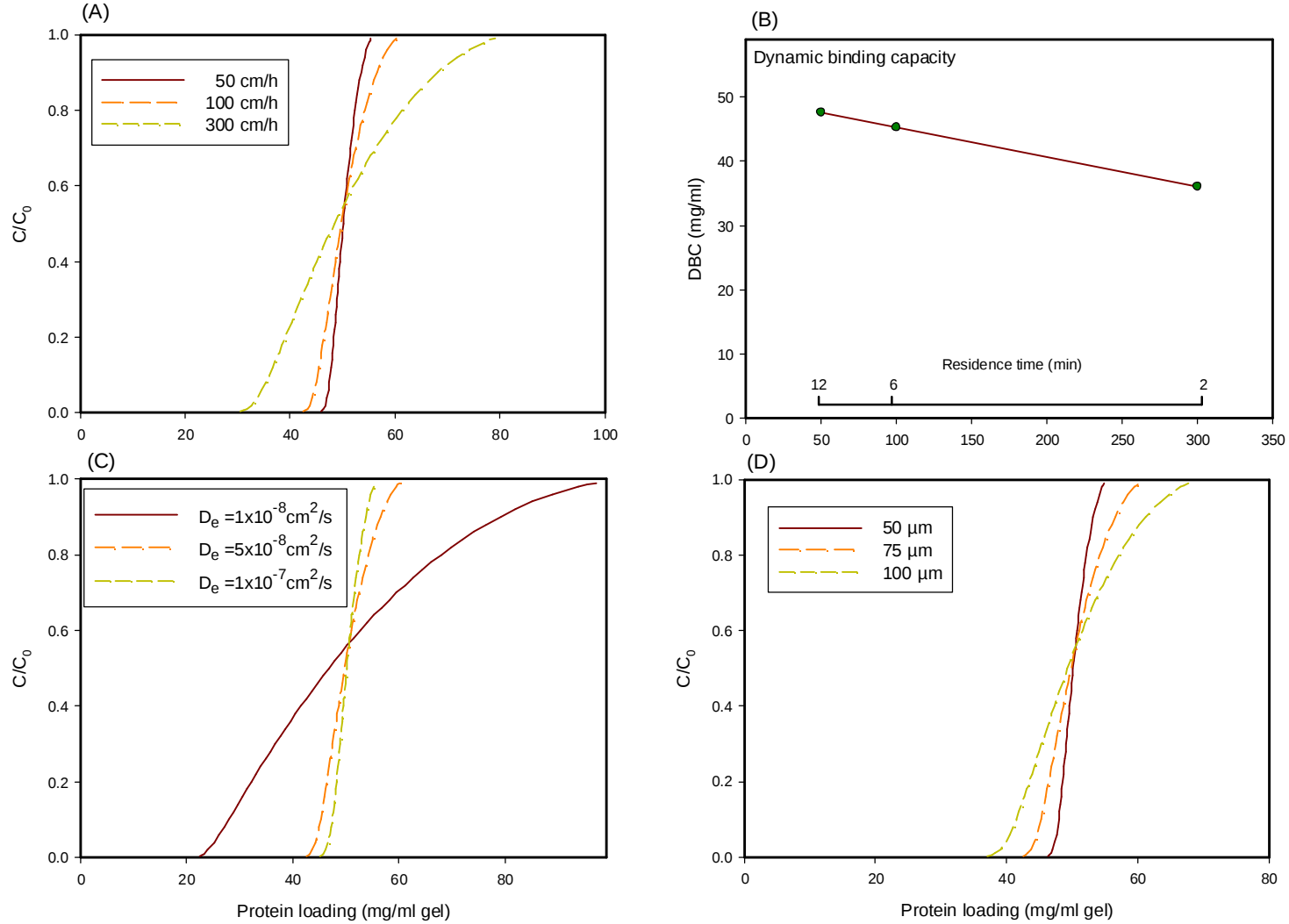


Figure S10: BTCs and DBC dependence on different parameters. BTCs were calculated using Eqs. (28) and (30) for a column of 10-cm bed height based on the following standard parameters: $d_p=75\mu\text{m}$, $q_m=50$ mg/ml, $\varepsilon=0.38$, $D_e=5 \cdot 10^{-8}$ cm²/s, and $u=100\text{cm/h}$. (A) Influence of the velocity (50, 100, and 300 cm/h). (B) DBC calculated from BTCs shown in (A). (C) Influence of D_e ($1 \cdot 10^{-8}$ - $1 \cdot 10^{-7}$ cm²/s). (D) Influence of the particle diameter (50, 75, and 100 μm).