Simultaneous Adsorption of Malachite Green and Methylene Blue Dyes in a Fixed-Bed Column Using Poly(Acrylonitrile-Co-Acrylic Acid) Modified with Thiourea

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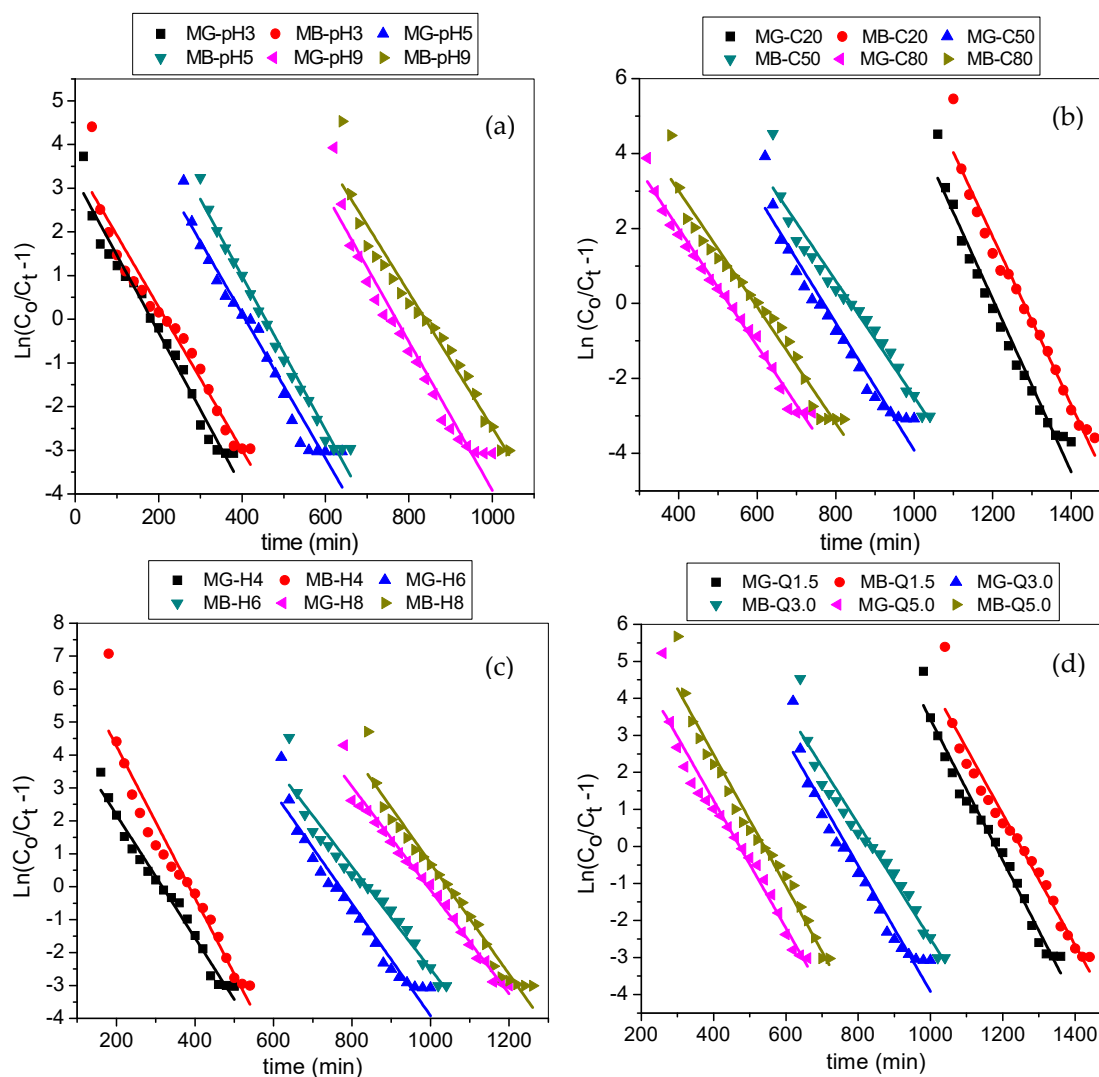
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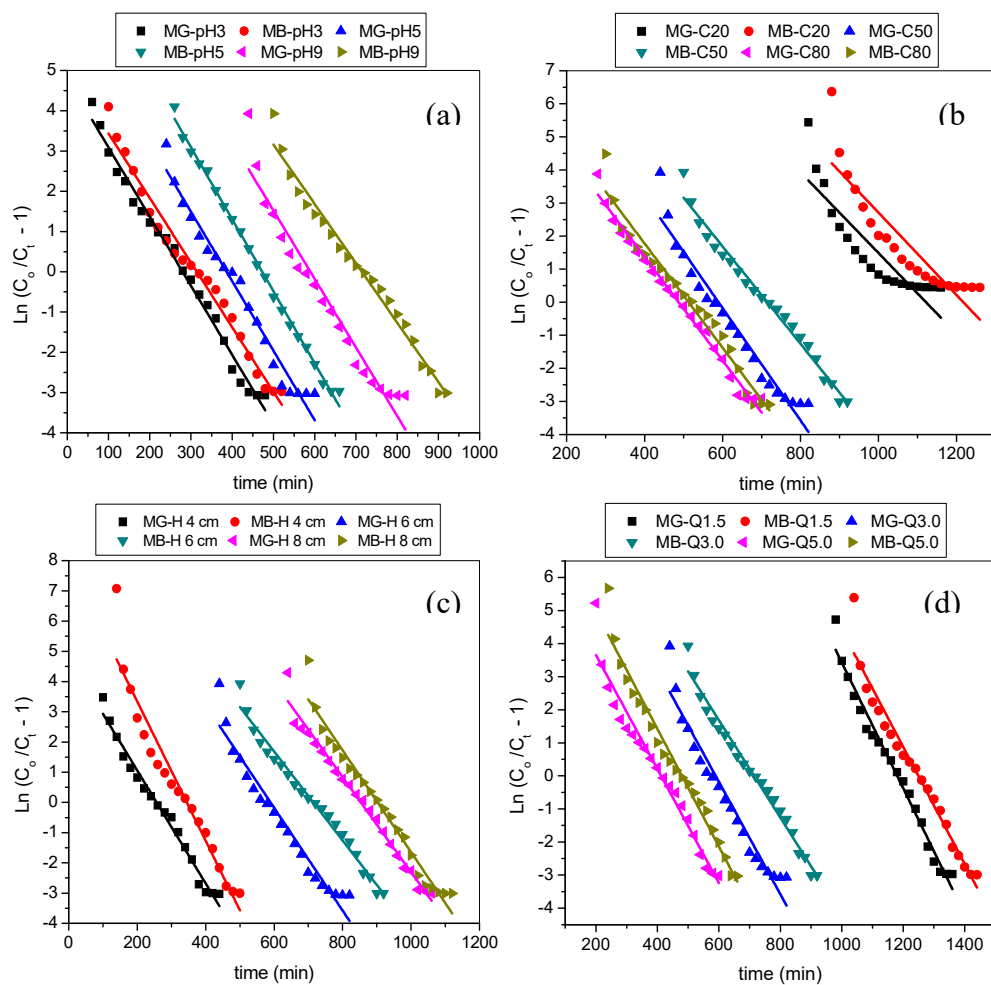[*] Correspondence: ctnurulain@upm.edu.my; Tel.: +6012-356-6076
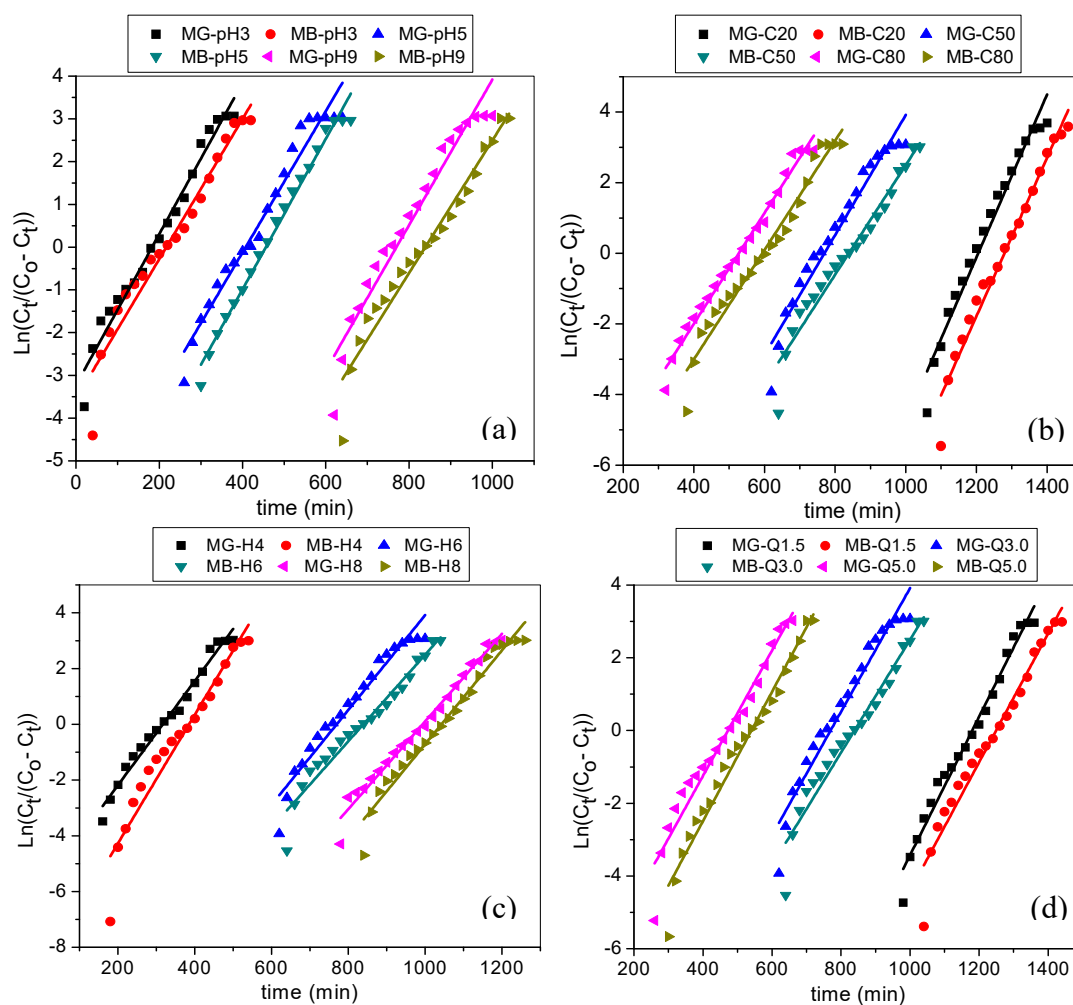
Supplementary Data

Model plots of the Thomas, Bohart–Adams and Yoon–Nelson column dynamic models of simultaneous adsorption of cationic dyes by Thiourea-modified Poly(acrylonitrile-co-acrylic acid) (T-PAA)

Figure S1: Linear Regression Analysis for breakthrough curve modeling by Thomas model for MG and MB onto T-PAA in a binary solutions at different column conditions; (a) pH, (b) Concentration (mg/L), (c) Bed height, and (d) Flow rate mL/min

Figure S2. Linear Regression Analysis for breakthrough curve modeling by Bohart-Adams model for MG and MB onto T-PAA in a binary solutions at different column conditions; (a) pH, (b) Concentration (mg/L), (c) Bed height, and (d) Flow rate mL/min.

Figure S3. Linear Regression Analysis for breakthrough curve modeling by Yoon-Nelson model for MG and MB onto T-PAA in a binary solutions at different column conditions; (a) pH, (b) Concentration (mg/L), (c) Bed height, and (d) Flow rate mL/min