

Supplementary Material

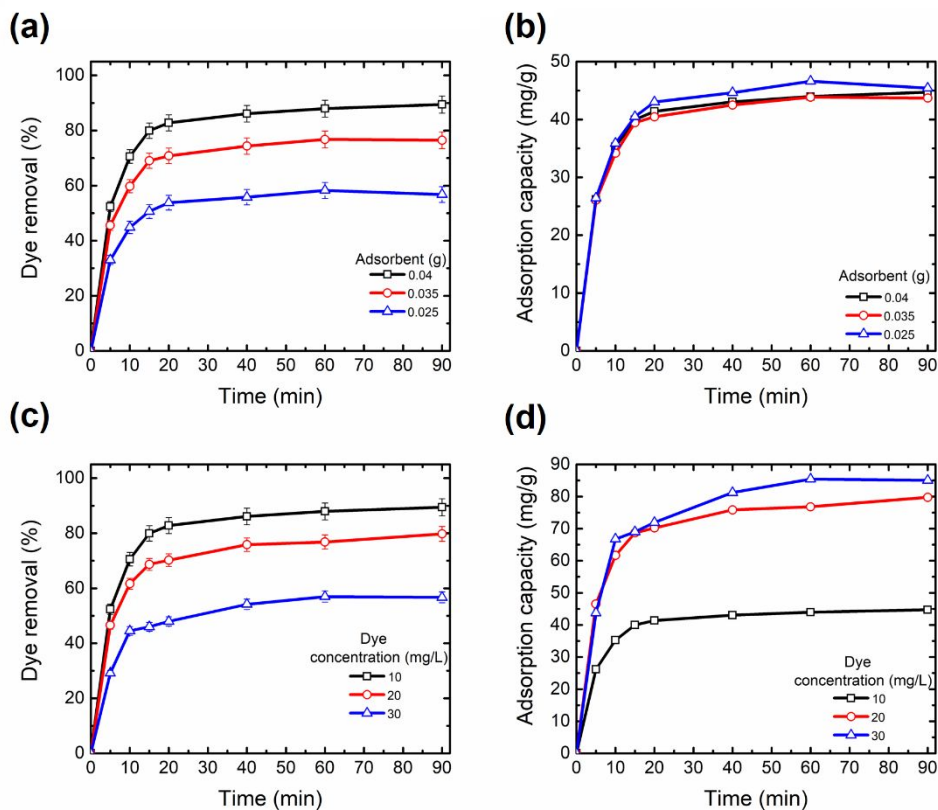
Green electrospun membranes based on chitosan/amino-functionalized nanoclay composite fibers for cationic dye removal: Synthesis and kinetic studies

Seyed Abolhassan Hosseini^{1,2}, Shervin Daneshvar e Asl³, Manouchehr Vossoughi², Abdolreza Simchi³, Mohtada Sadrzadeh^{1*}

¹Department of Mechanical Engineering, 10-367 Donadeo Innovation Center for Engineering, Advanced Water Research Lab (AWRL), University of Alberta, Edmonton, AB, Canada, T6G 1H9

²Department of Chemical & Petroleum Engineering, Sharif University of Technology, Tehran, Iran

³Department of Materials Science & Engineering, Sharif University of Technology, Tehran, Iran



* Corresponding Author, sadrzade@ualberta.ca

Figure S1. Adsorption removal rate (left-hand side) and adsorption capacity (right-hand side) of the nanofibrous membranes. (a, b) effect of the adsorbent dosage (pH= 7 and dye concentration= 10 mg.L⁻¹), (c, d) effect of initial dye concentration (pH=7 and adsorbent dosage= 0.04 g).

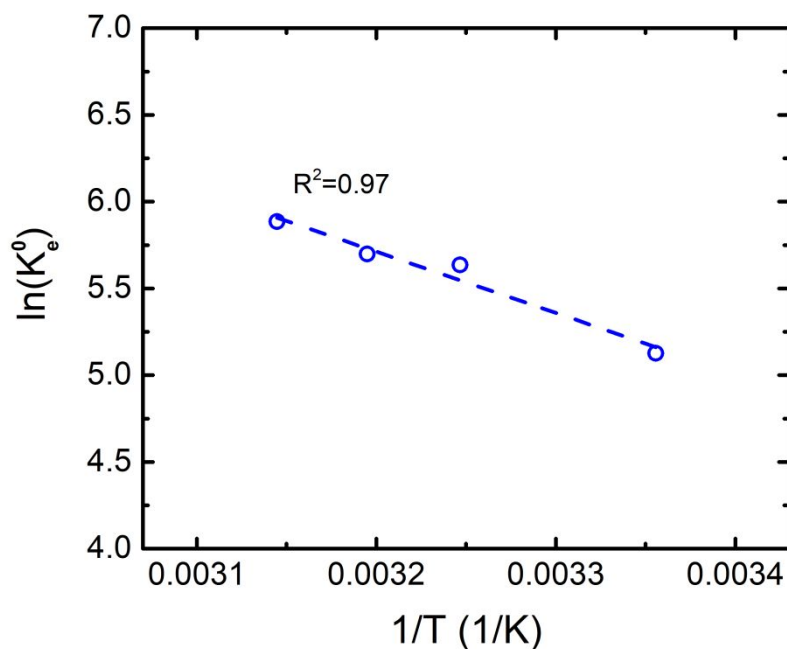


Figure S2. Plots of $\ln(K_e^0)$ -1/T for adsorption of BB41on ENM containing 2 wt.% OCT-MMT.