

Developing Polycation-Clay Sorbents for Efficient Filtration of Diclofenac: Effect of Dissolved Organic Matter and Comparison to Activated Carbon

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Supporting information contains 5 pages with 5 figures.

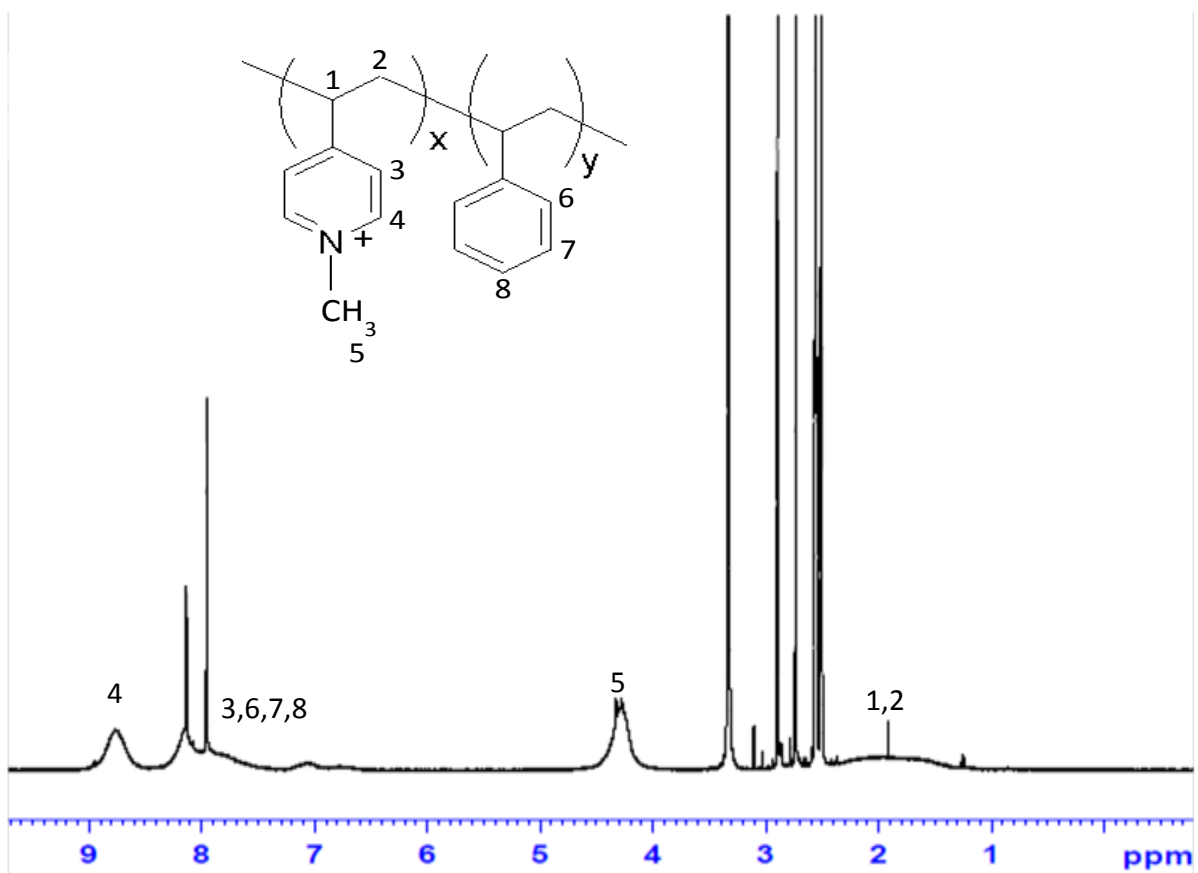


Figure S1. ¹H-NMR spectra of QPVPCs

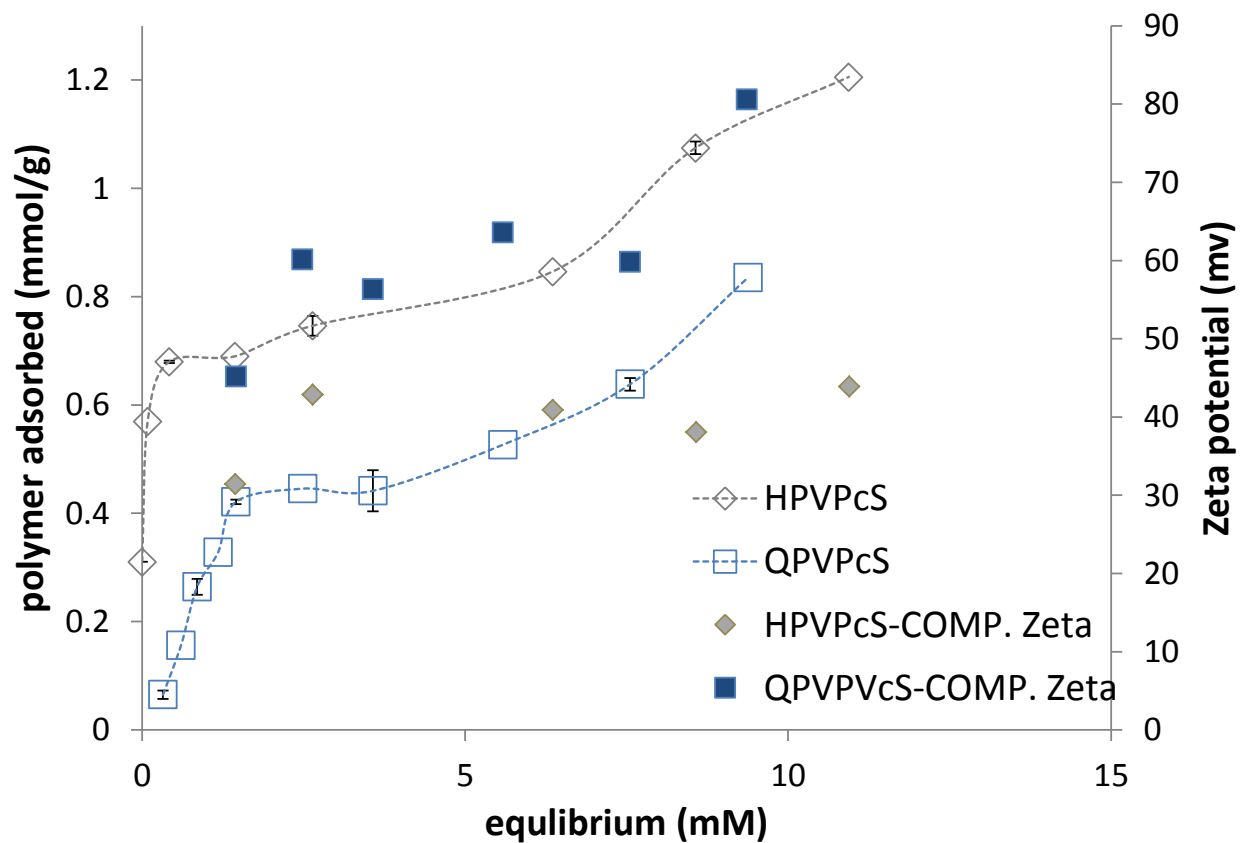


Figure S2. HPVPcS and QPVPcS (0.4-13 mM) adsorption on MMT(1.7 g/l) and Zeta potential of the composites

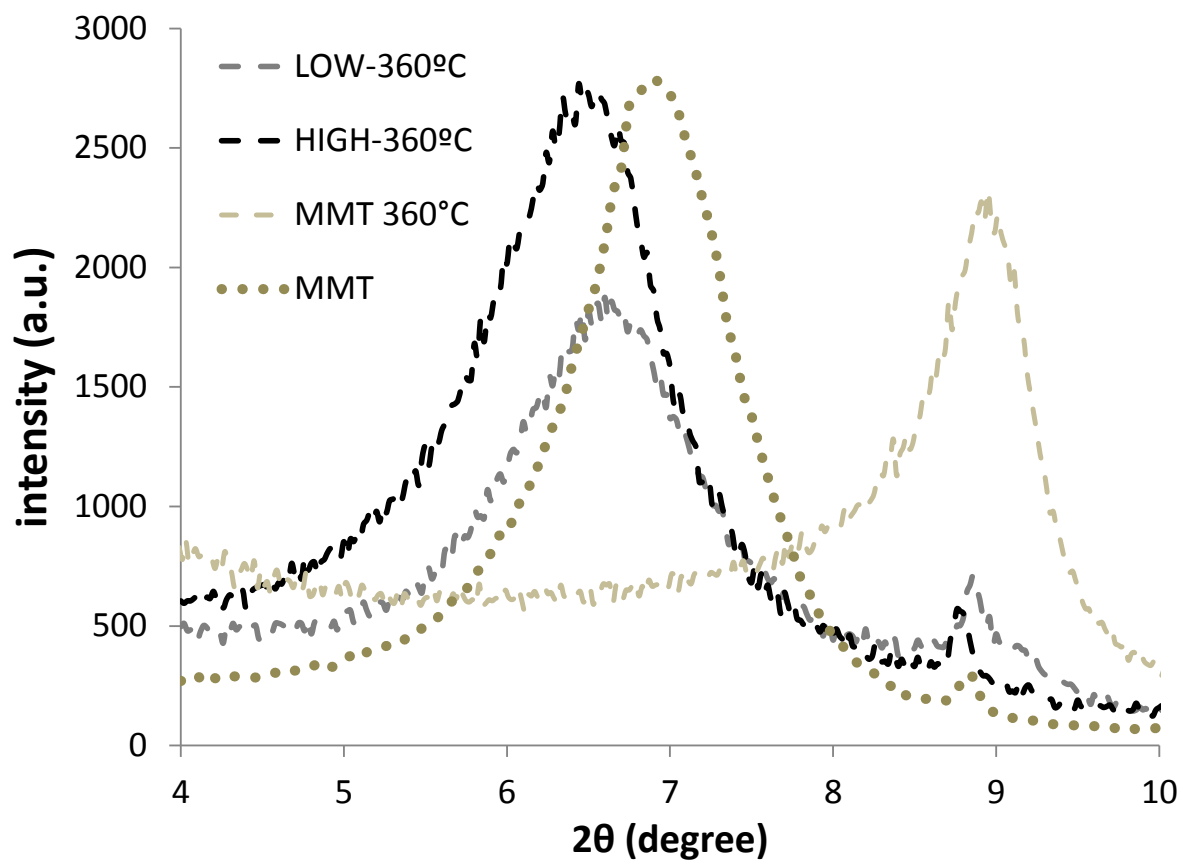


Figure S3. XRD diffractograms of MMT and for QPCPcS LOW and HIGH composites and MMT after heat treatment.

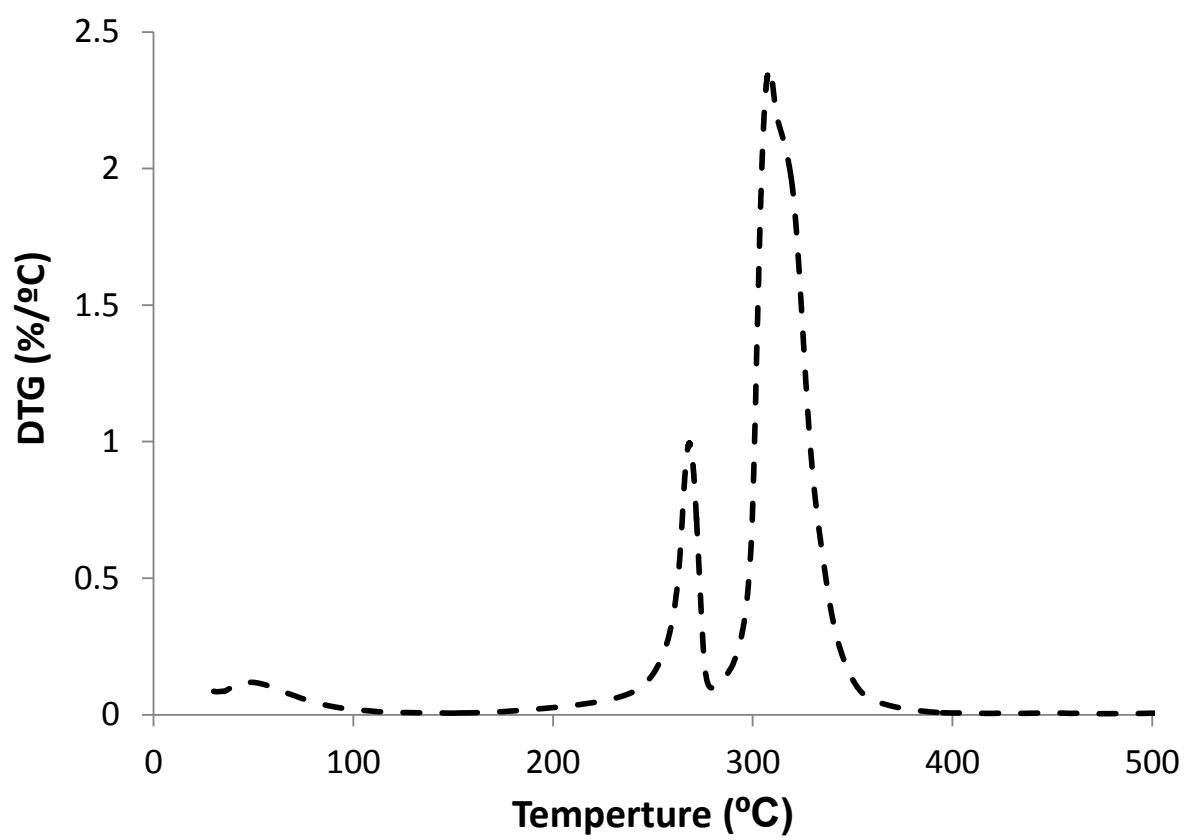


Figure S4. Differential thermogravimetric analysis profiles of QPVPCs polymer.

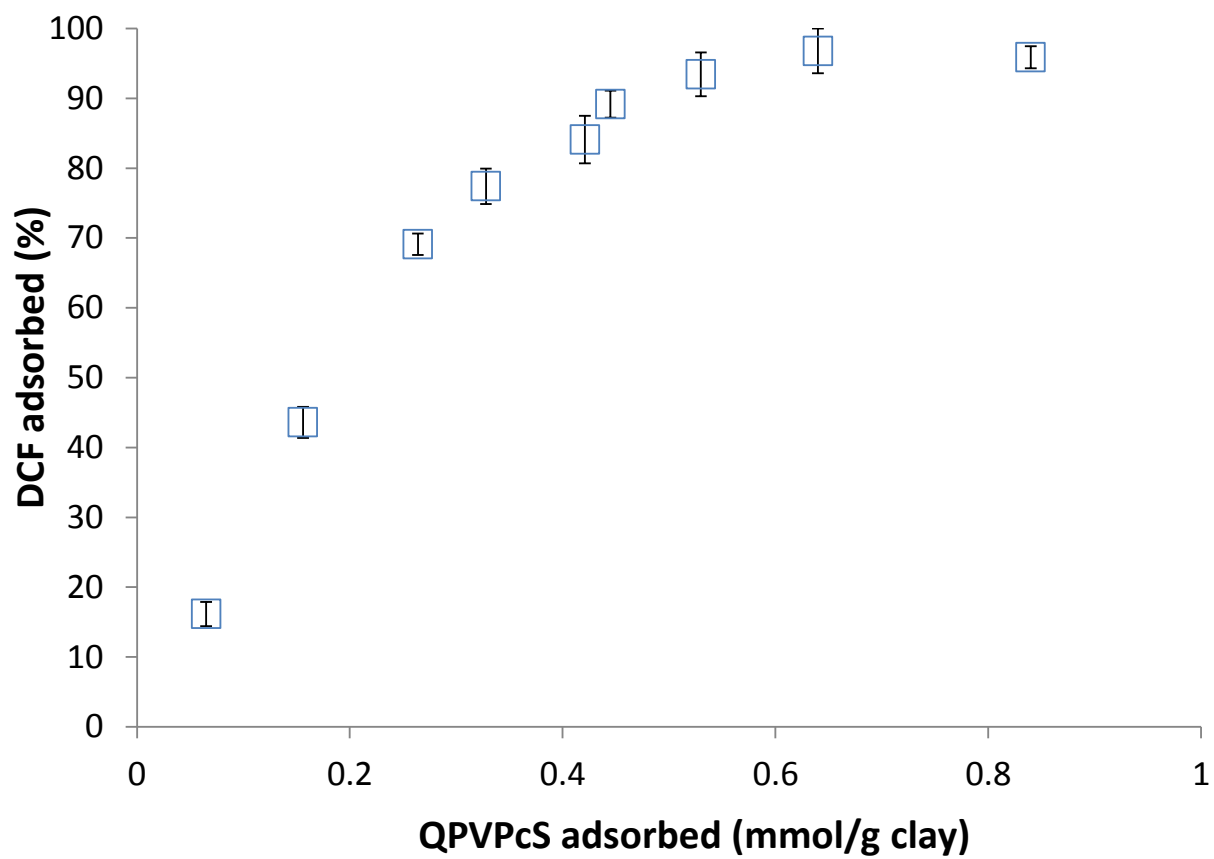


Figure S5. DCF (30 mg/L) adsorption by QPVPCs composites (0-0.83 mmol/g, 0.17% MMT)

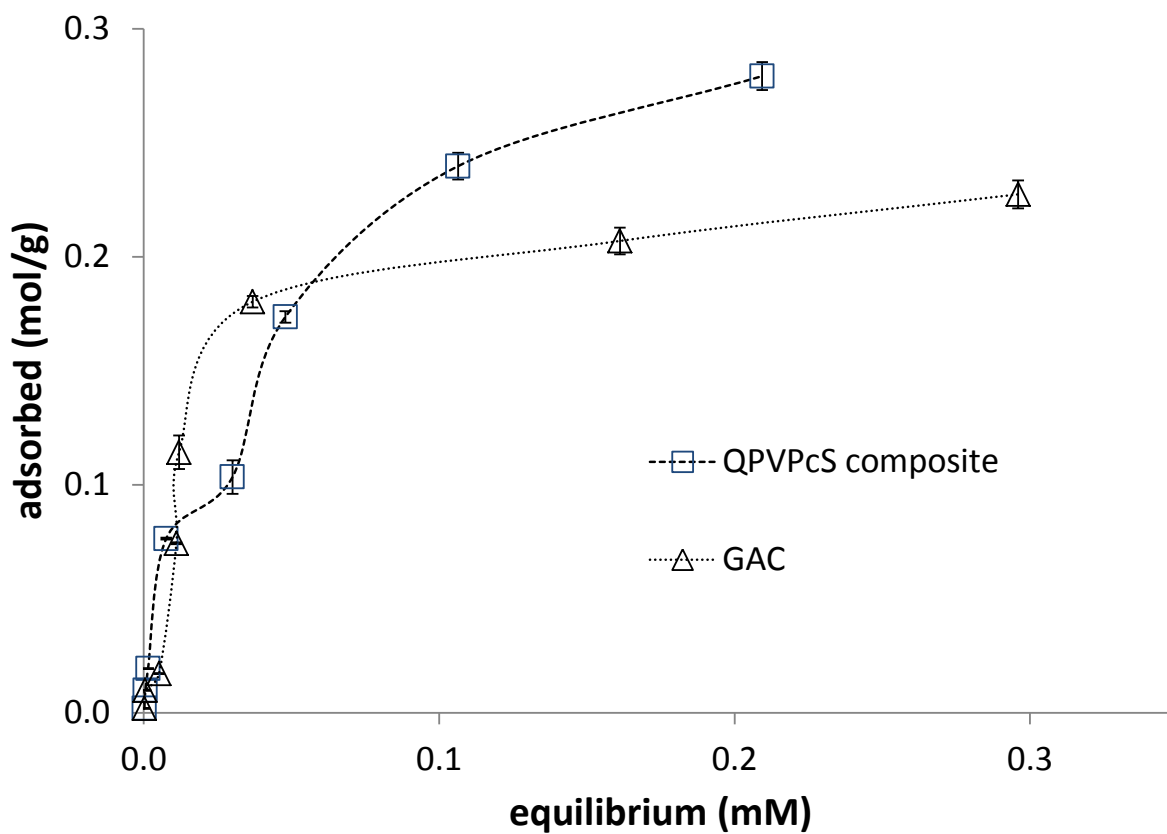


Figure S6. Adsorption isotherm of DCF (1-200 mg/L) on QPVPcS composite (0.63 mmol/g) and GAC (1.9 g/l)

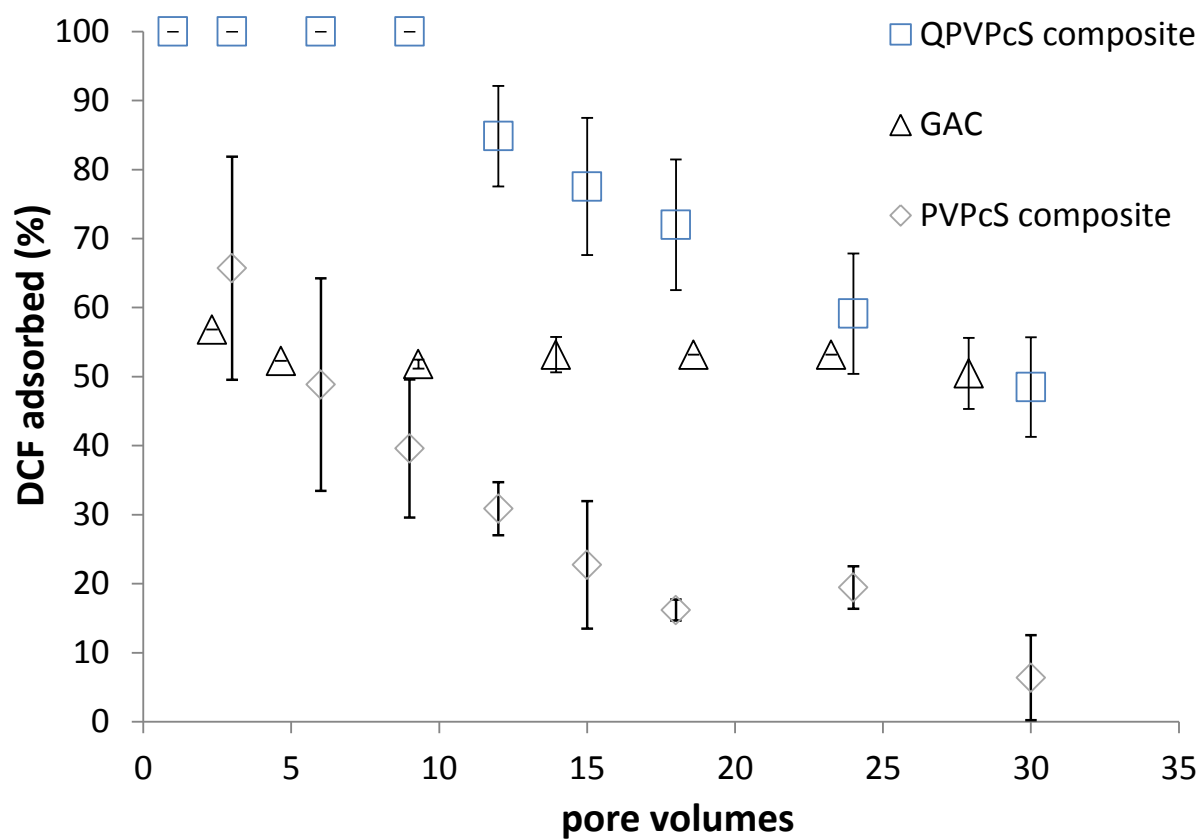


Figure S7. DCF (1 mg/L) removal by columns of PVPcS and QPVPcS composites (0.15 ± 0.01 g/g) and GAC mixed with sand (1/100), flow rate 2 ml/min