

Supplementary information

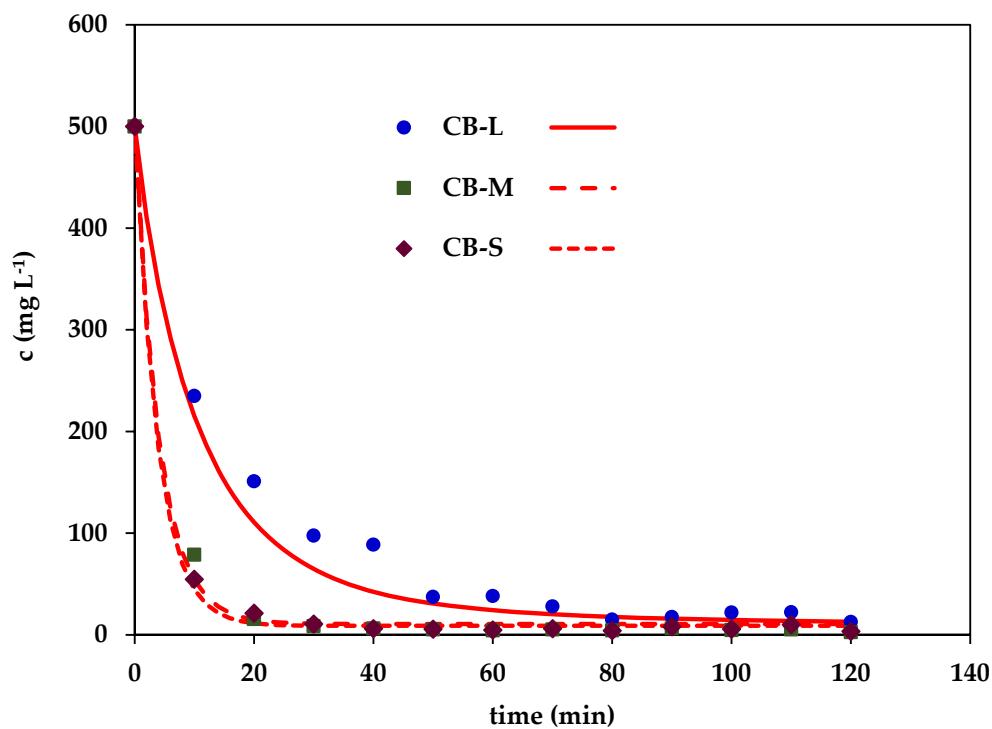


Figure S1. Experimental and 2D-Batch model kinetic values of PNP concentration in the solutions, c .

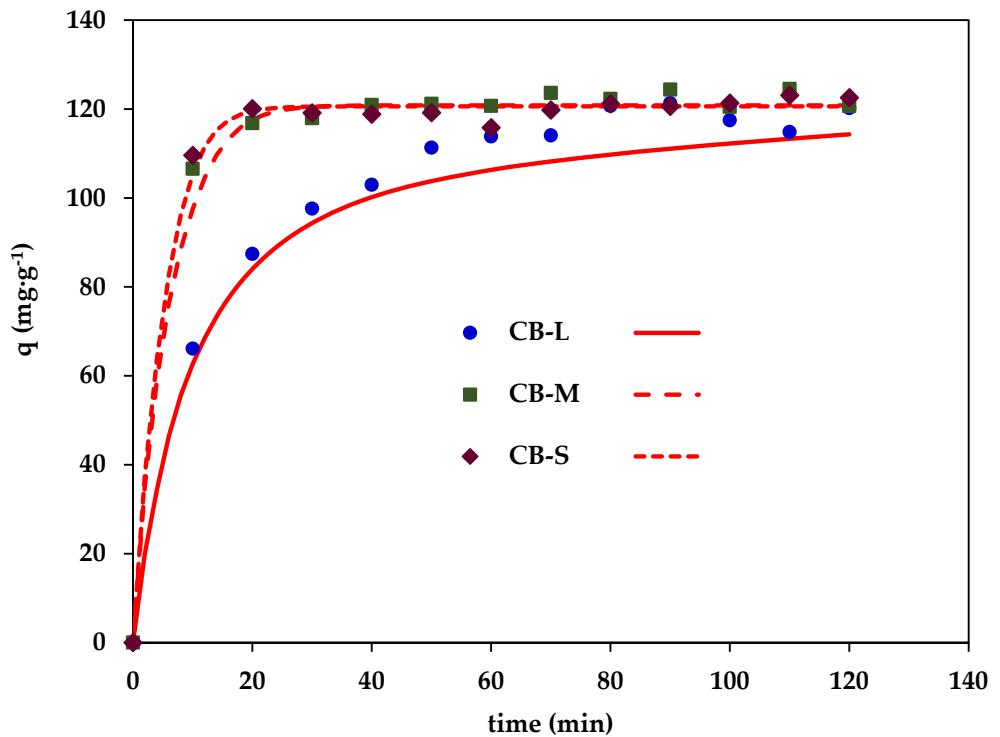


Figure S2. Experimental and 2D-Batch model kinetic values of PNP concentration in the carbons, q .

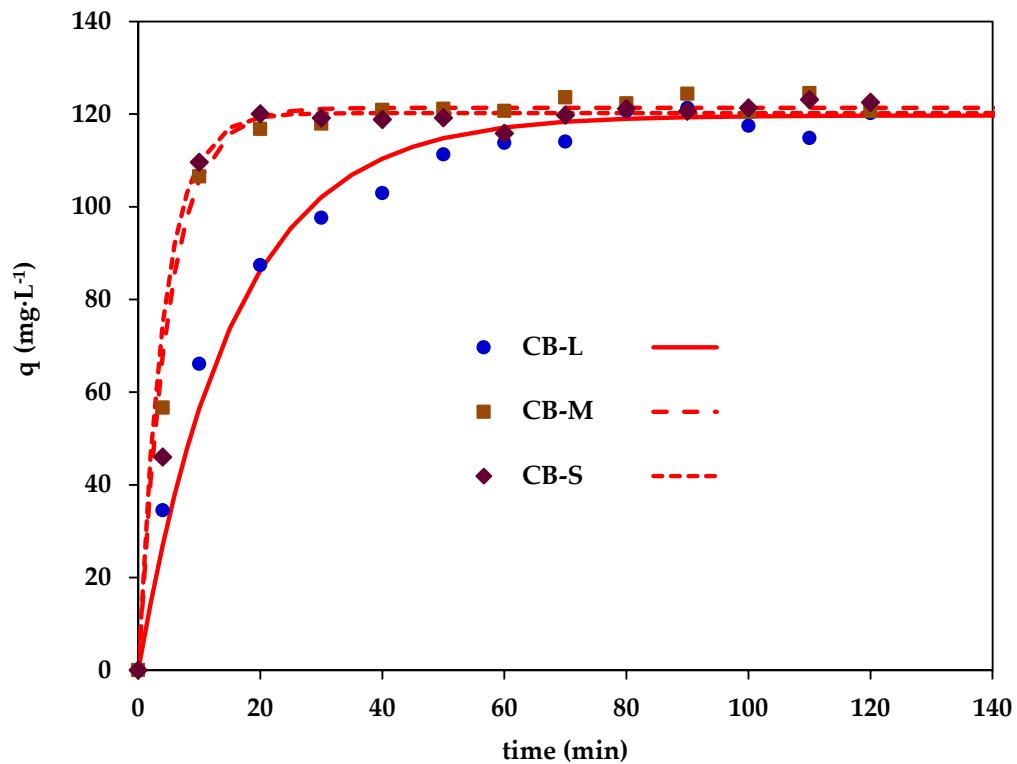


Figure S3. Experimental and PFO model kinetic values of PNP concentration in the carbons, q .

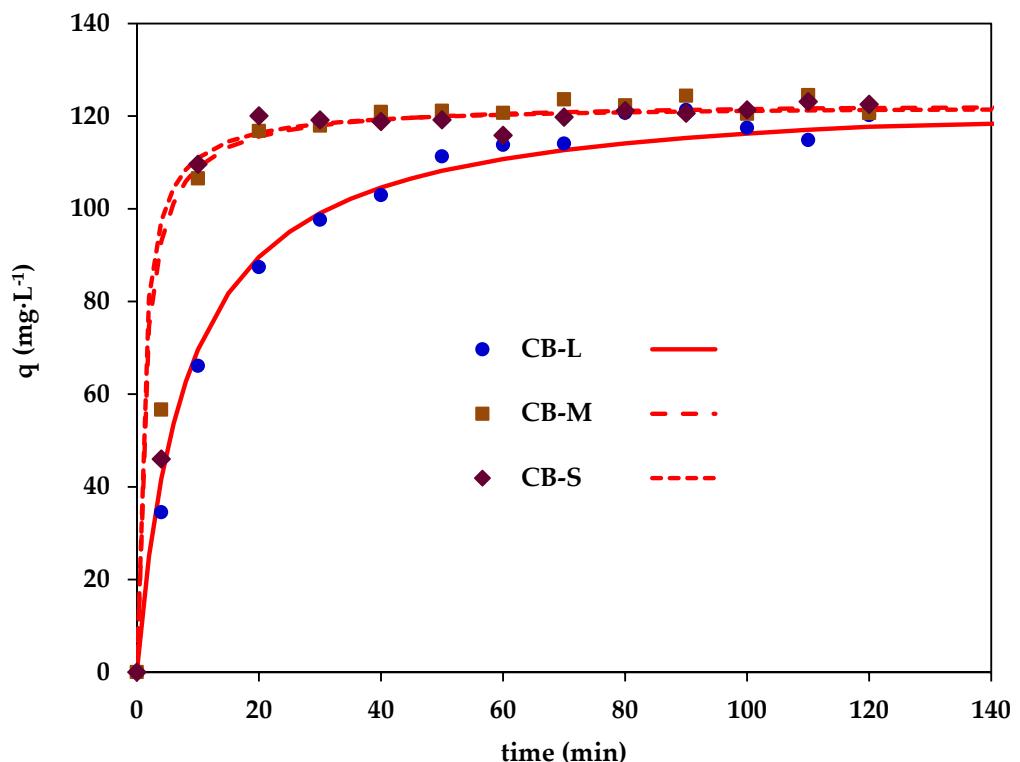


Figure S4. Experimental and PSO model kinetic values of PNP concentration in the carbons, q .

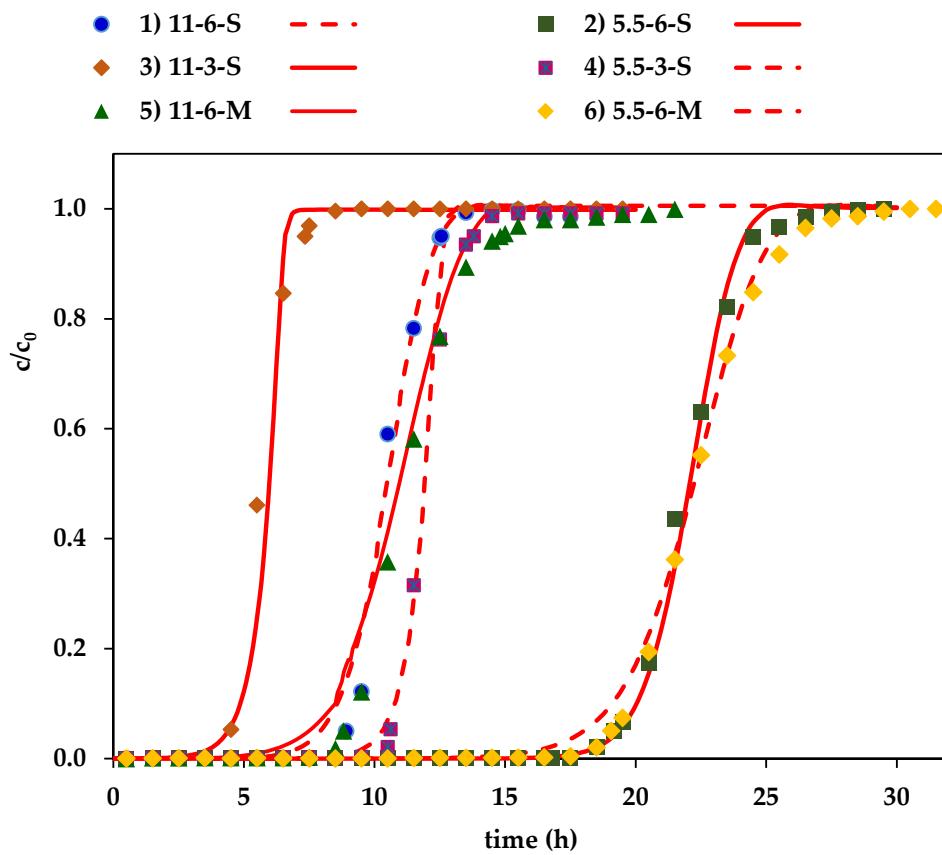


Figure S5. 2D-column breakthrough curves for the six experiments.

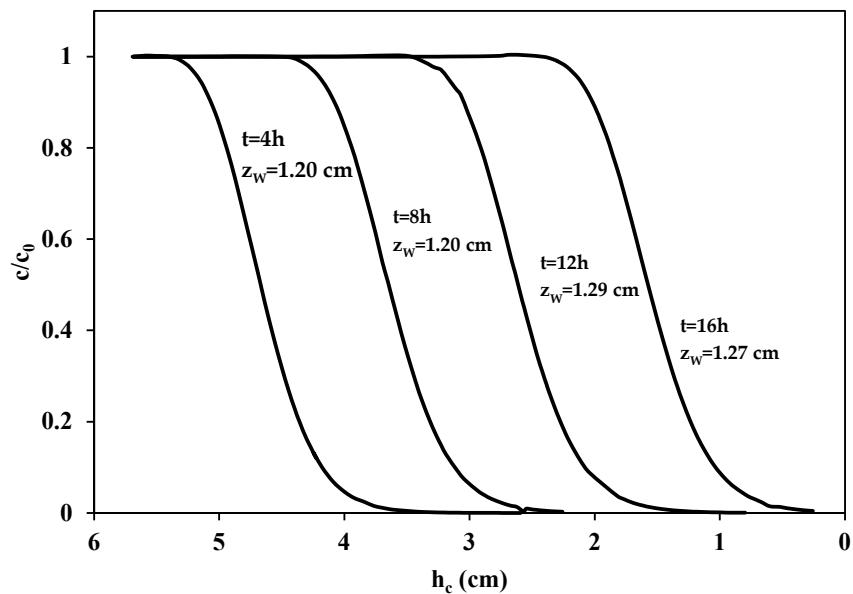


Figure S6. PNP concentration wave at 4h, 8h, 12h, and 16h for the run 2) 5.5-6-S.

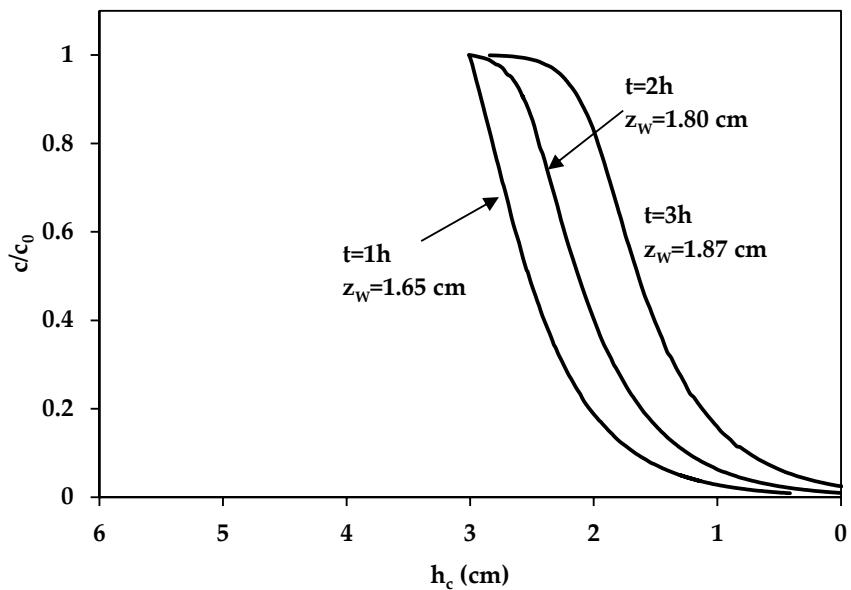


Figure S7. PNP concentration wave at 1h, 2h, and 3h, for the run 3) 11-3-S.

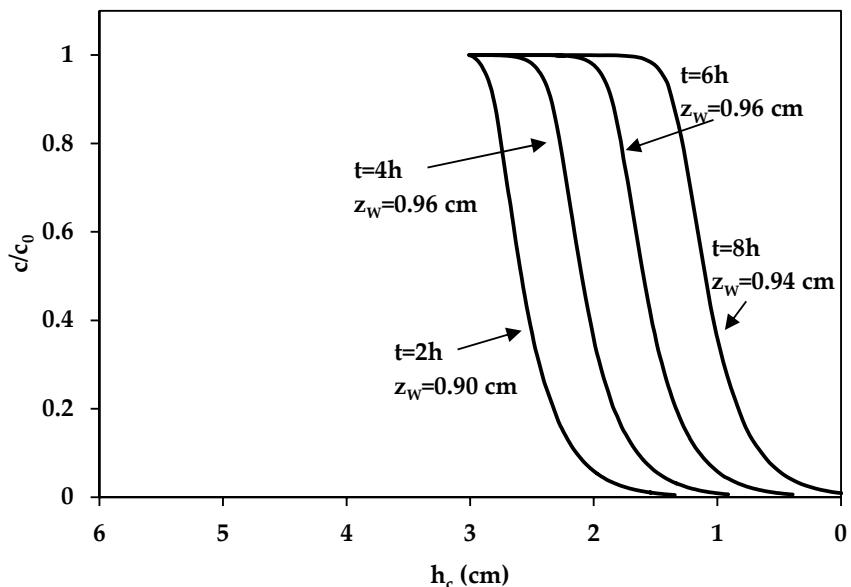


Figure S8. PNP concentration wave at 2h, 4h, 6h, and 8h, for the run 4) 5.5-3-S.

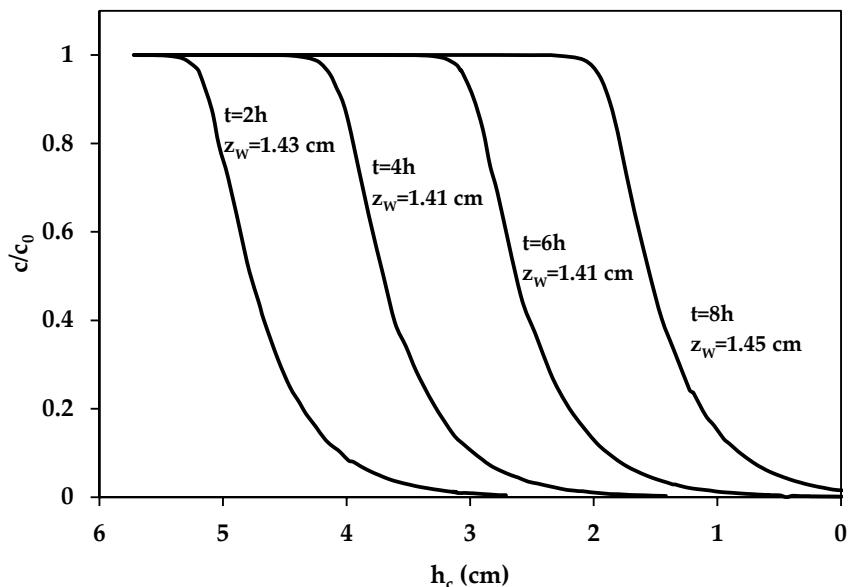


Figure S9. PNP concentration wave at 2h, 4h, 6h, and 8h, for the run 5) 11-6-M.

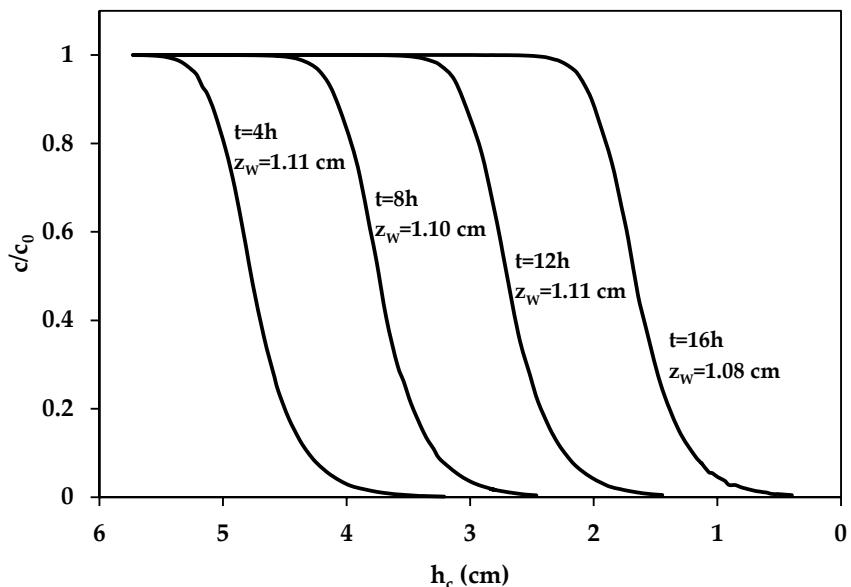


Figure S10. PNP concentration wave at 4h, 8h, 12h and 16h, for the run 6) 5.5-6-M.