

Supplementary Material

Recyclable biopolymers encapsulated orange peel biochar embedded iron-organic frameworks composite for selective uptake of methylene blue

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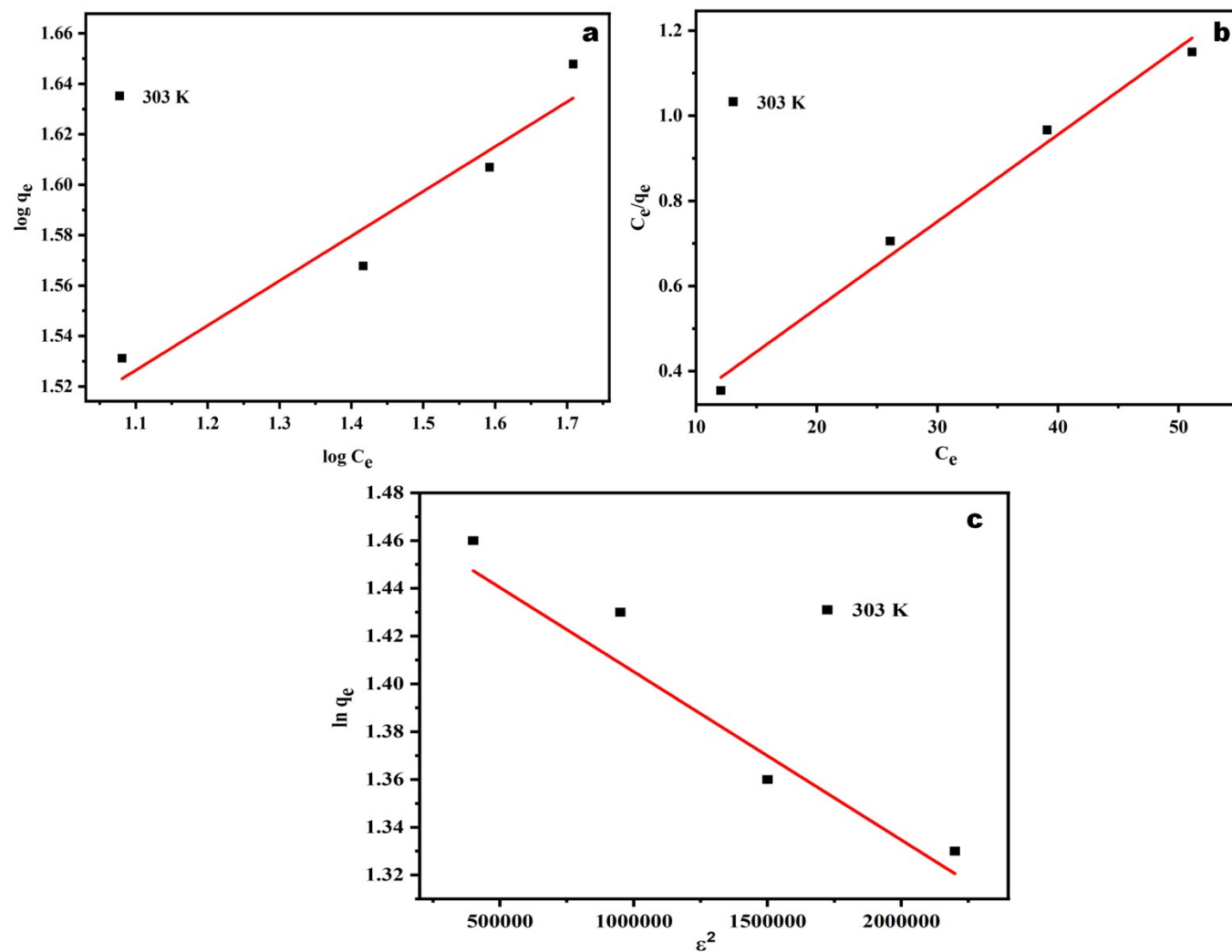


Fig.S1. The linear plots of (a) Freundlich; (b) Langmuir and (c) Dubinin-Radushkevich (D-R) models of OPBCPFOF composite for MB adsorption at 303 K.

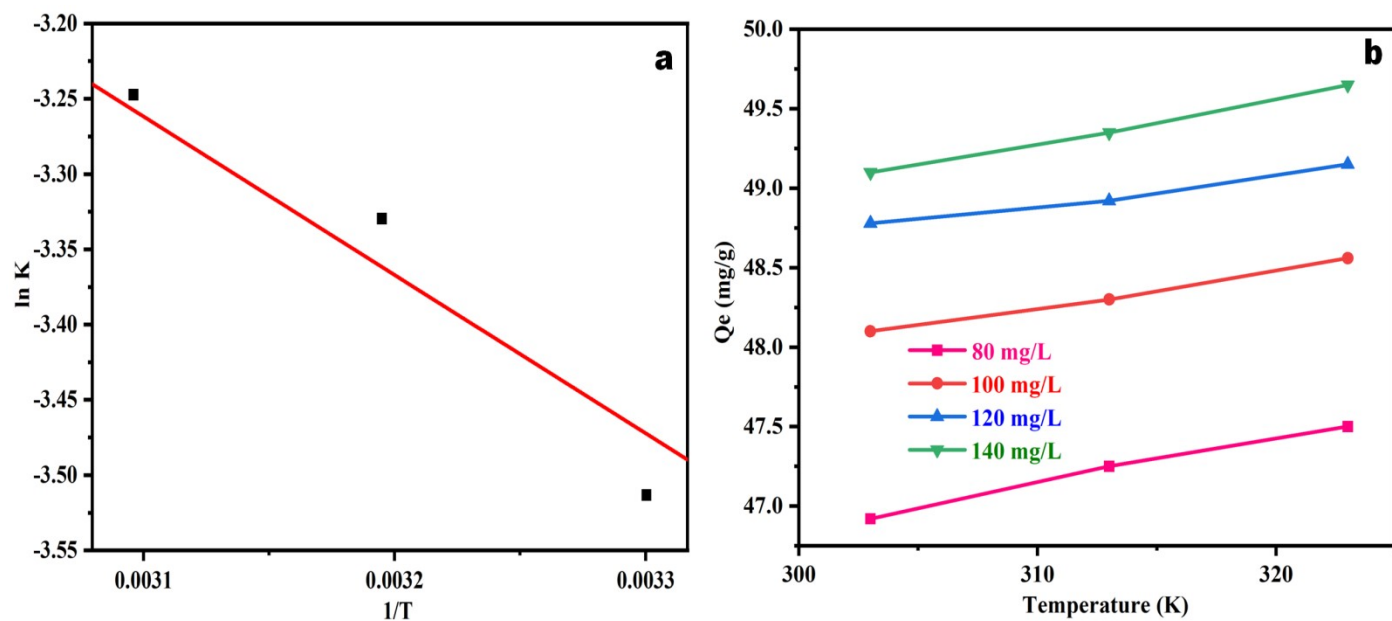


Fig.S2. The linear plots of (a) Vant Hoff at 303 K and (b) effect of temperature of OPBCPFOF composite for MB adsorption at 303, 313 and 323 K.

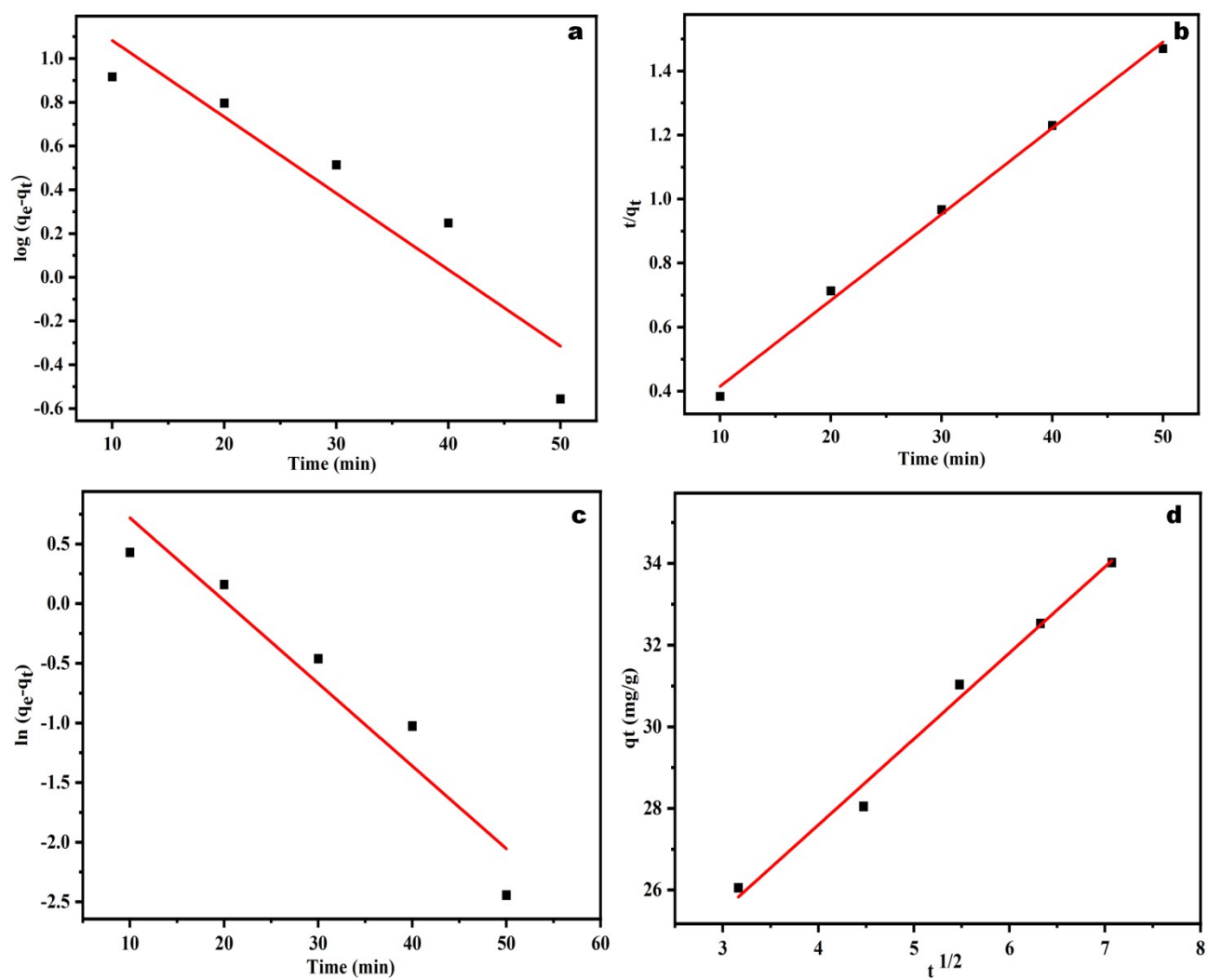


Fig.S3. The linear plots of (a) pseudo-first-order; (b) pseudo-second-order and (c) particle diffusion and (d) intra-particle diffusion models of OPBCPFOF composite for MB adsorption at 303 K.

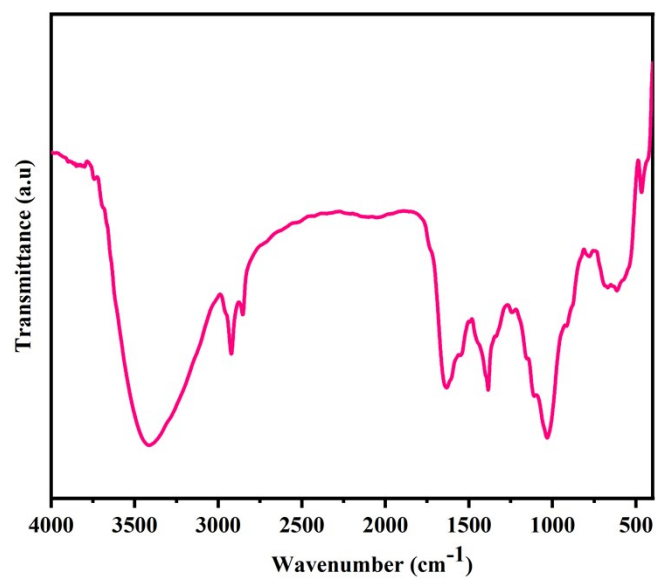


Fig. S4. FTIR spectrum of OPBCPFOF composite after six recycles of MB.