

Supplementary information

Preparation of ZnO incorporated porous carbon nanofibers and adsorption performance investigation on methylene blue

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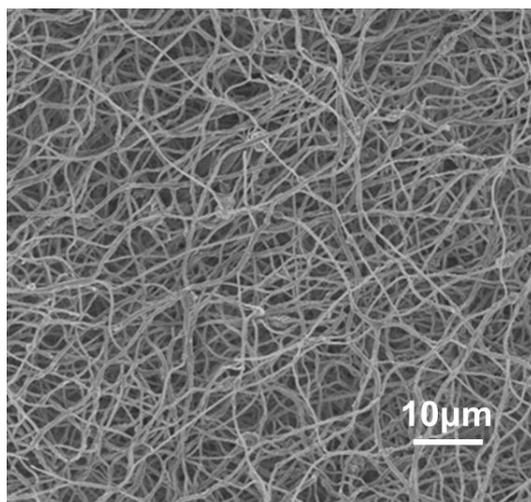


Figure. S1 Low magnification SEM image of Zn@PCNFs.

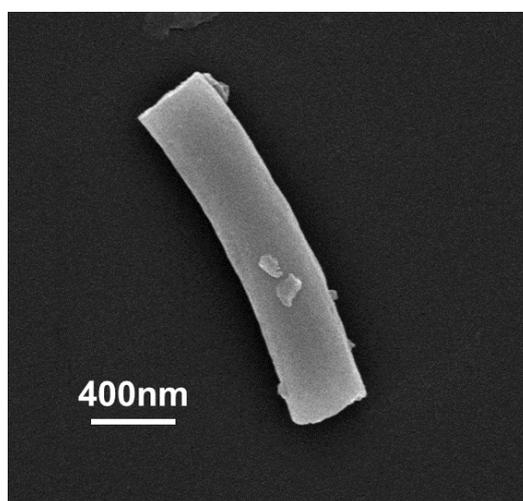


Figure. S2 SEM image of CNFs.

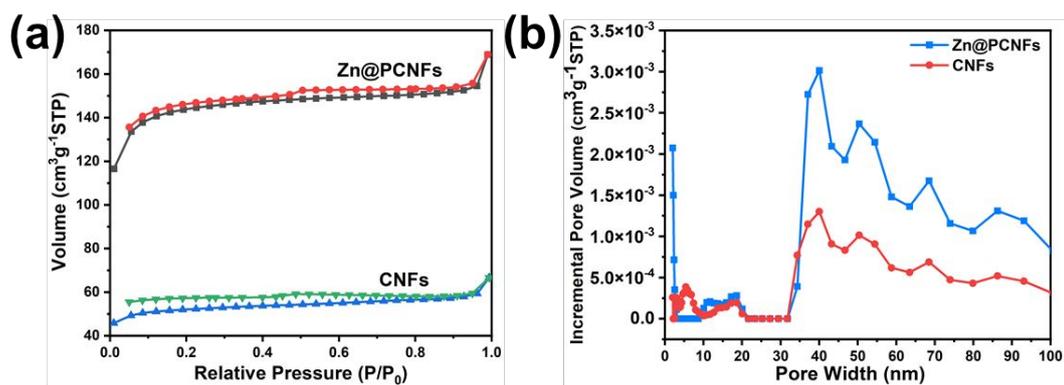


Figure. S3 (a) BET curve and (b) pore size distribution of CNFs and Zn@PCNFs.

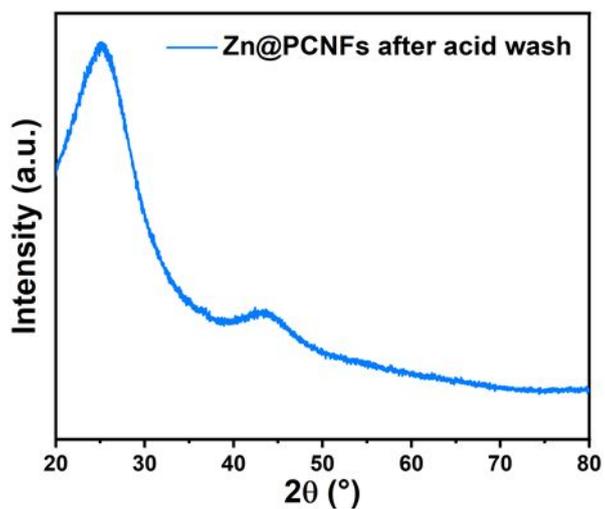


Figure. S4 XRD curve of Zn@PCNFs after acid wash.

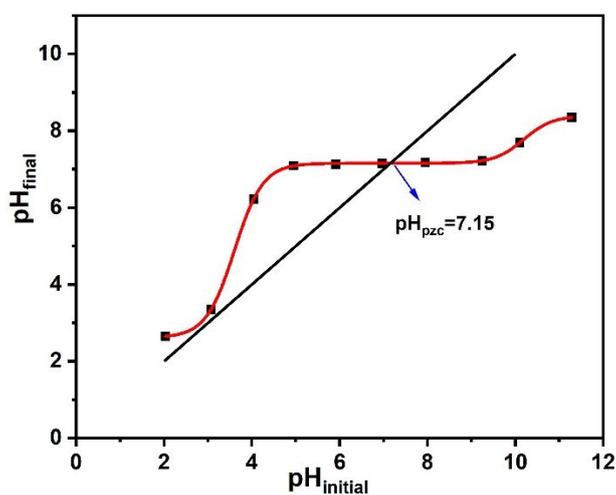


Figure. S5 The PZC (point of zero charge) for Zn@PCNFs.

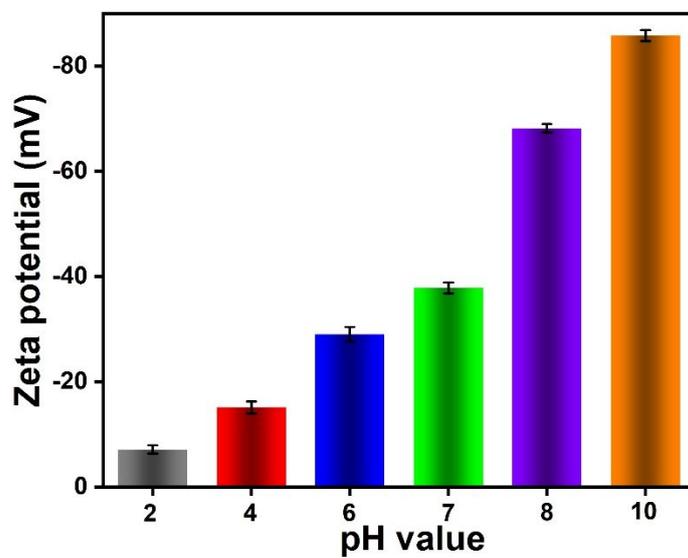


Figure. S6 Zeta position of Zn@PCNFs at different pH value.

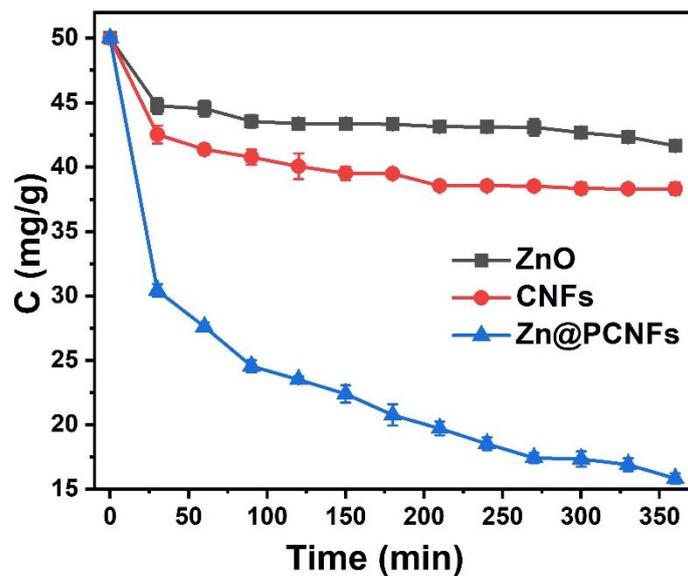


Figure. S7 MB concentration change after mixing with ZnO, CNFs and Zn@PCNFs.

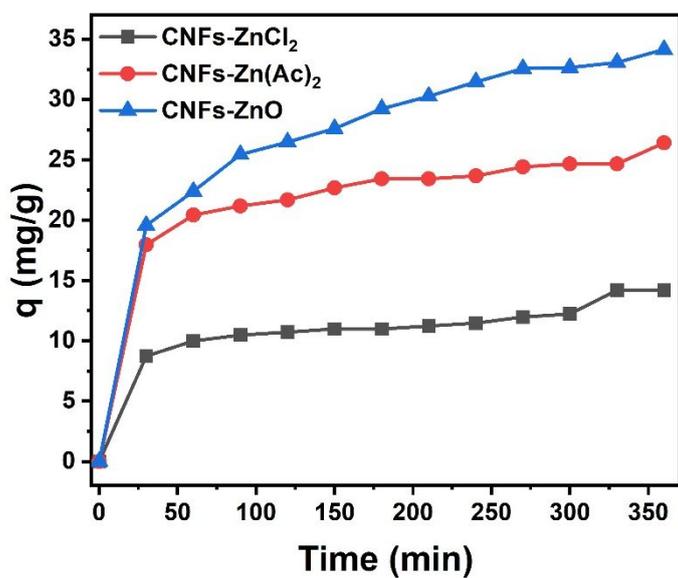


Figure. S8 Adsorption profiles of carbon nanofibers with different Zn sources.

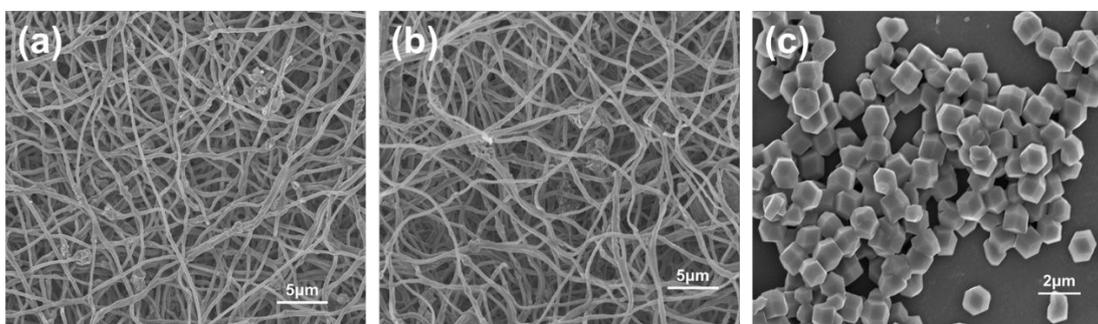


Figure. S9 SEM images of carbon nanofibers with (a) Zn(AC)₂ and (b) ZnCl₂. (c) SEM image of ZIF-8.

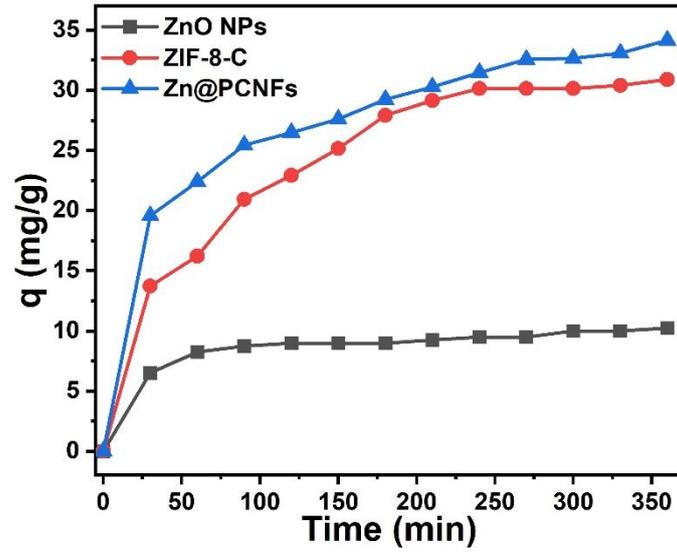


Figure. S10 Adsorption profiles of Zn nanomaterials with different structures.

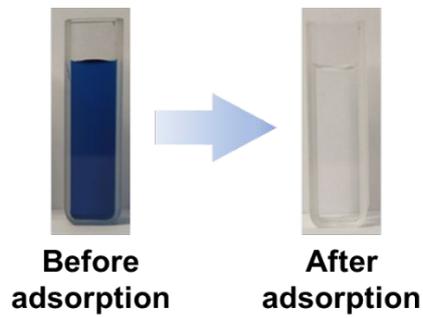


Figure. S11 images of MB solution before and after adsorption.