

## Coal derived porous carbon fibers with tunable internal channel for flexible electrodes and organic matter absorption

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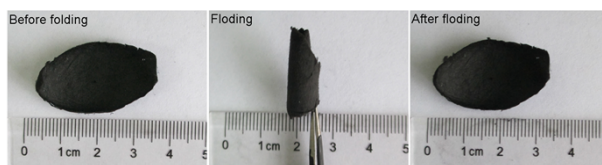


Fig. S1 Photograph of CPCFs as flexible material.

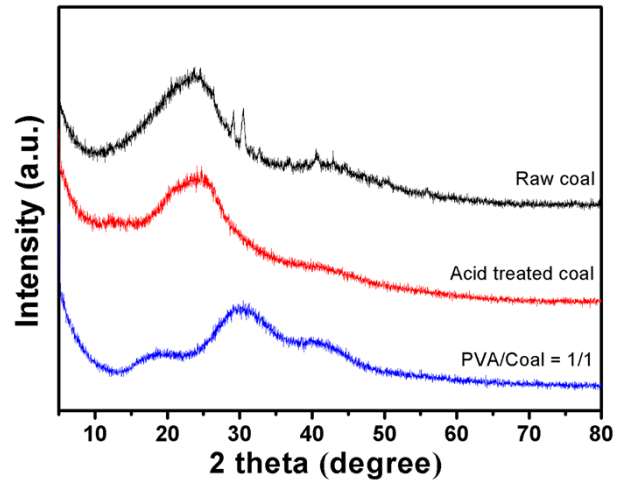


Fig. S2 XRD patterns of raw coal, acid treated coal and CPCFs (PVA/Coal = 1/1).

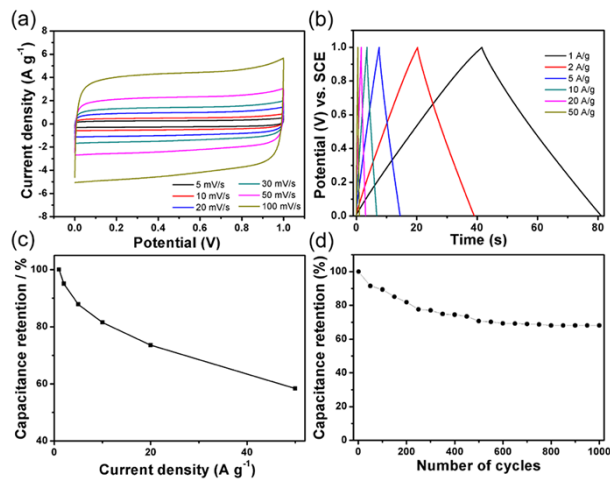


Fig. S3 Electrochemical performance of PVA/Coal = 1/1 carbon fiber measured in 6 M KOH electrolyte in two-electrode system. (a) CV profiles. (b) Galvanostatic charge-discharge profiles. (c) Capacitance retention and (d) cyclic performance of CPCFs at a current density of 1 A g<sup>-1</sup>.

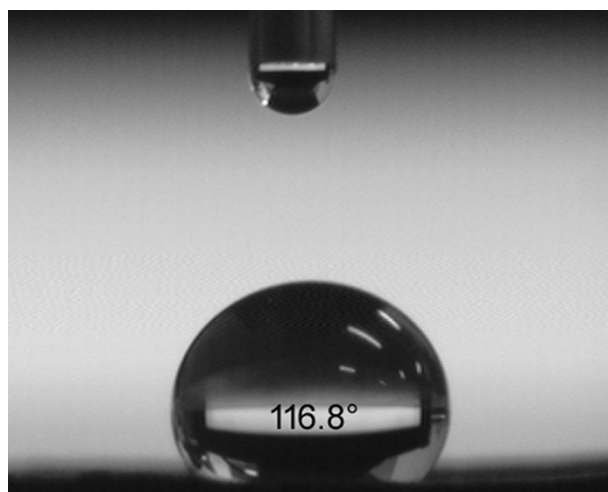


Fig. S4 The water contact angle of CPCFs.