

Supplementary information

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Part 1.

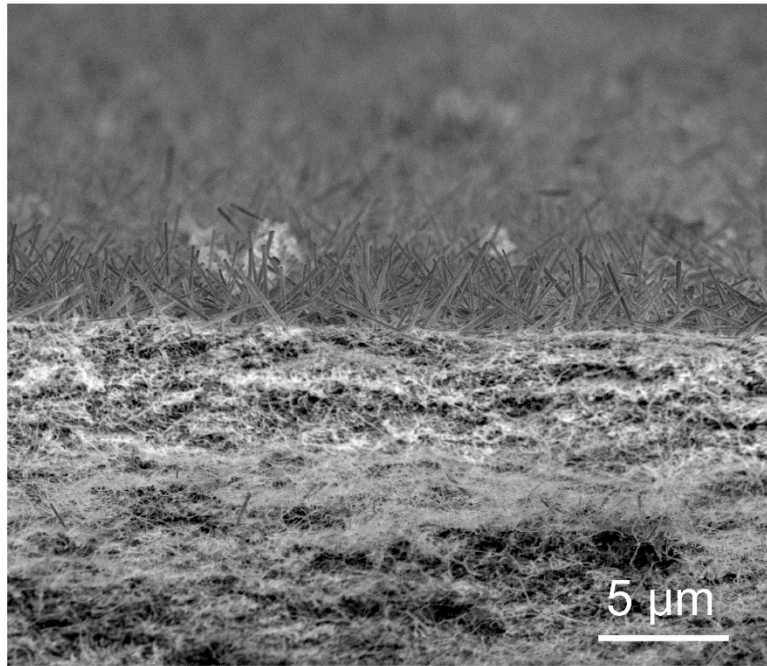


Fig. S1. The cross-sectional view of MBP

Part 2.

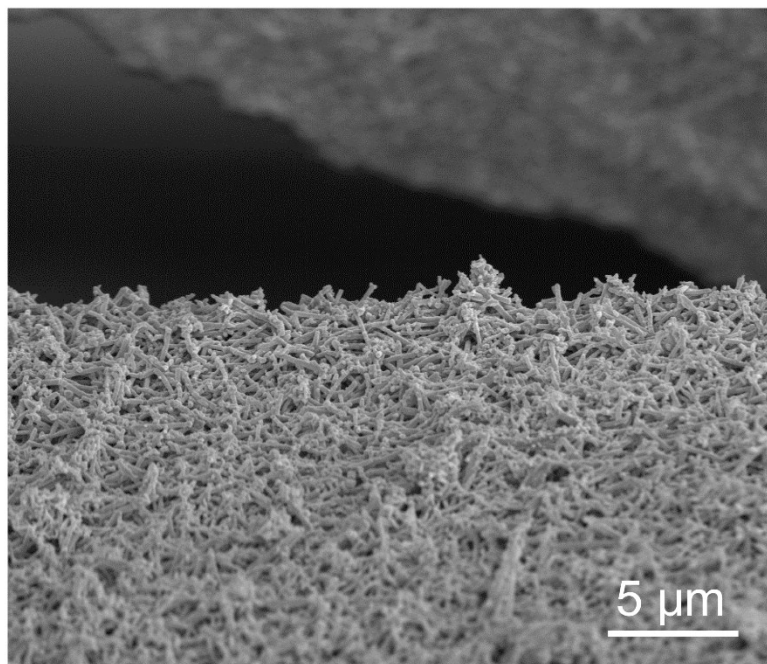


Fig. S2. The cross-sectional view of PMBP

Part 3.

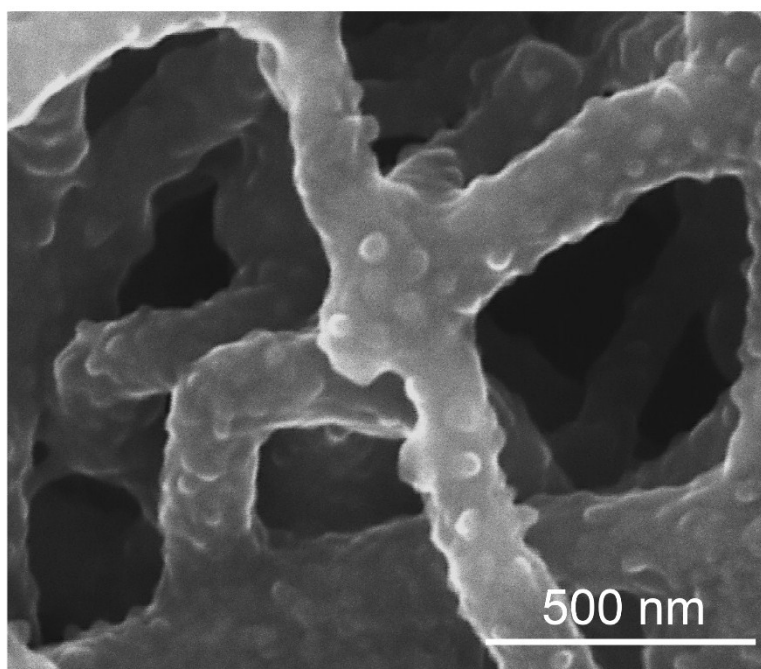


Fig. S3. The high-magnification SEM of PANI on the PMBP electrode

Part 4.

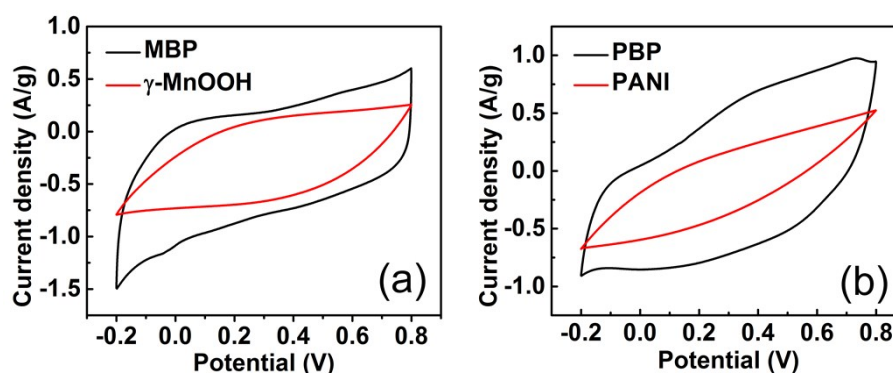


Fig. S4. The CV curves of (a) MBP and γ -MnOOH (b) PBP and PANI at the current density of 5 mV s^{-1}