Electronic Supplementary Material (ESI) for RSC Advances.

Supporting Information

Systematic Investigation on Charge Storage Behaviour of Multidimensional Poly(3,4-ethylenedioxythiophene) Nanostructures

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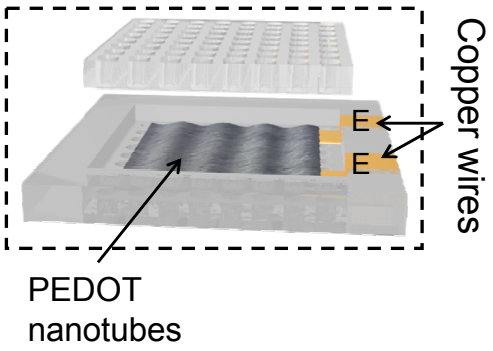


Figure S1. Scheme of a home-made electrode substrate for measuring *I-V* characteristics.

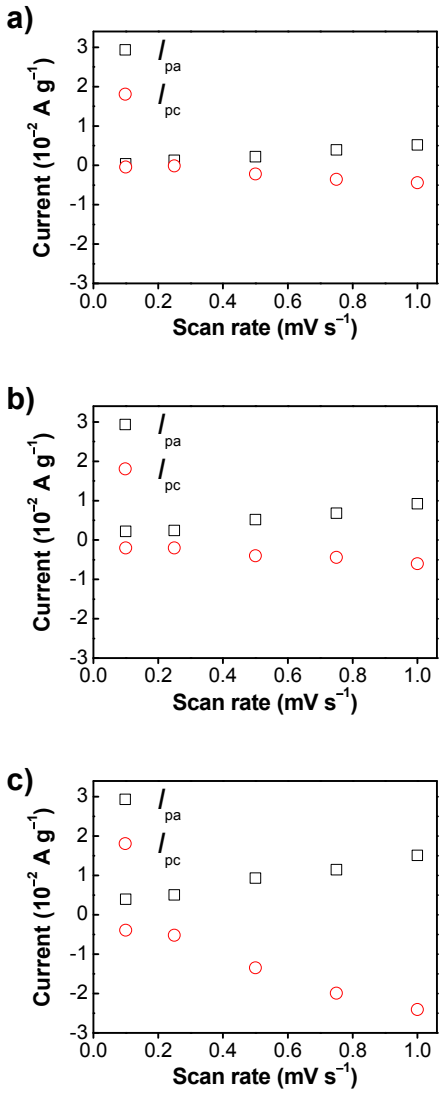


Figure S2. Plots of the peak current (the anodic peak current, I_{pa}; the cathodic peak current I_{pc}) vs. the scan rate: (a) control, (b) NRs, and (c) NNs.

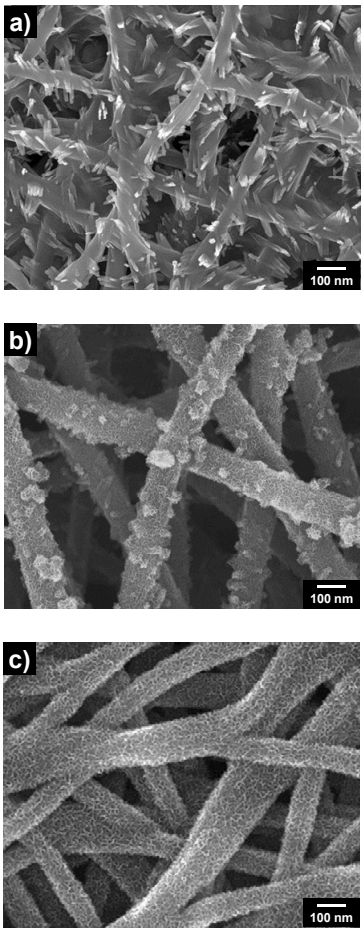


Figure S3. SEM images of *m*PNTs treated with different amounts of 0.01 M $KMnO_4$ solution for 30 min: (a) 0 mL, (b) 1 mL, and (c) 5 mL.

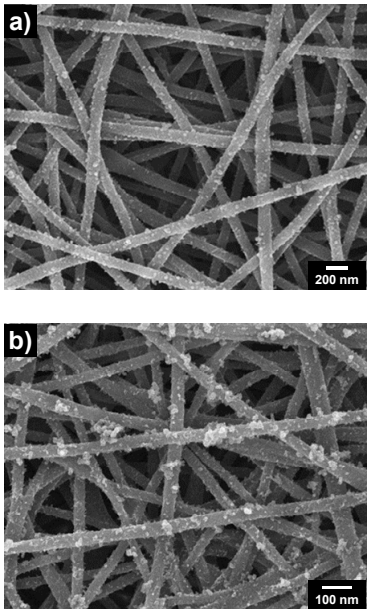


Figure S4. SEM images of *m*PNTs treated with 1 mL of 0.01 M $KMnO_4$ solution during different time periods: (a) 30 min and (b) 60 min.

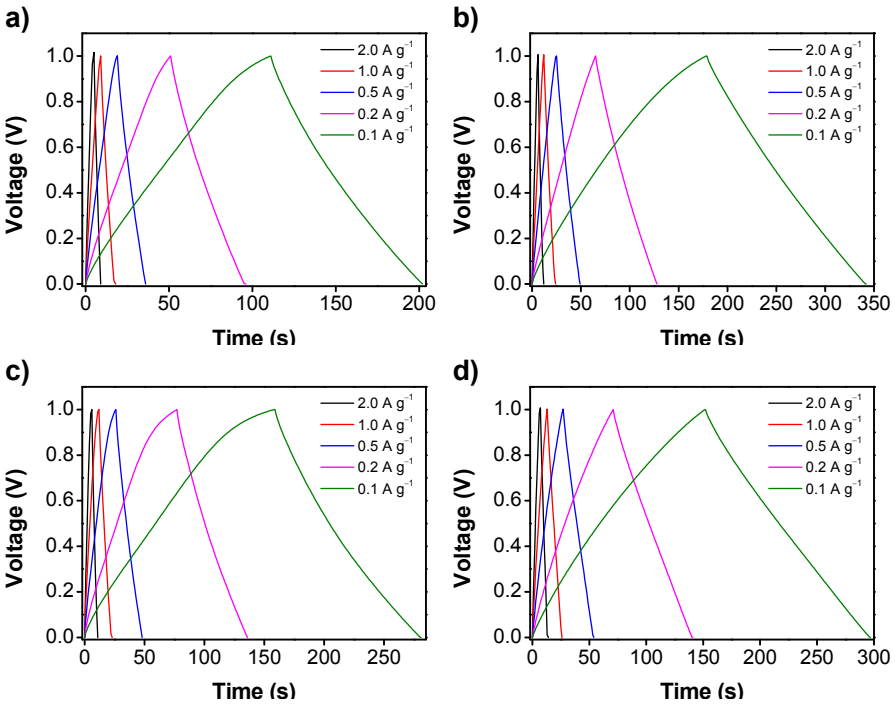


Figure S5. Galvanostatic charge/discharge curves of (a) symmetric MnO_2-*m*PNTs cell, (b) symmetric RGO-CNFs cell, (c) asymmetric RGO-CNFs//MnO_2-*m*PNTs cell, and (d) asymmetric MnO_2-mPNTs//RGO-CNFs cell at different current densities.

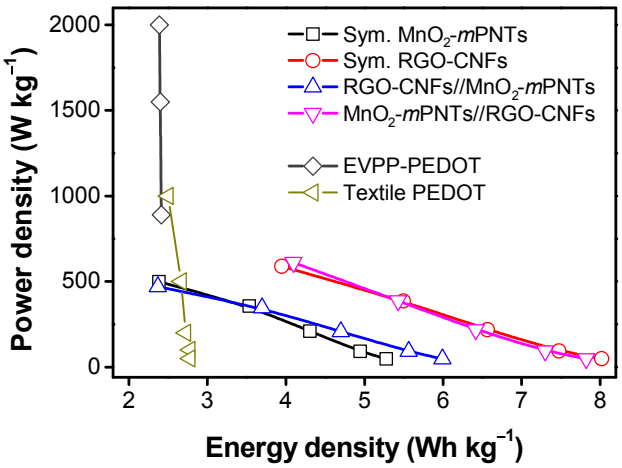
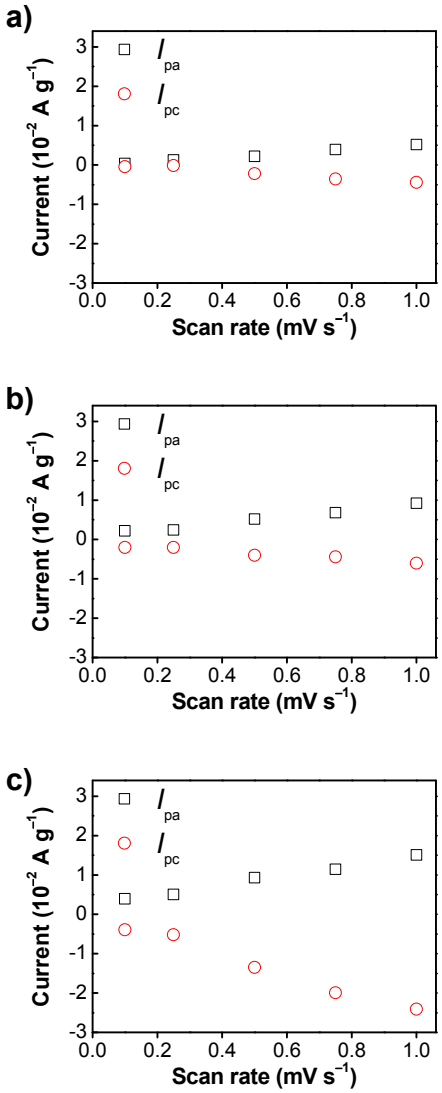


Figure S6. Ragone plots of symmetric and asymmetric capacitor cells. Information on two capacitor cells from the literatures ([14] EVPP-PEDOT; [15] textile PEDOT) were added for comparison.



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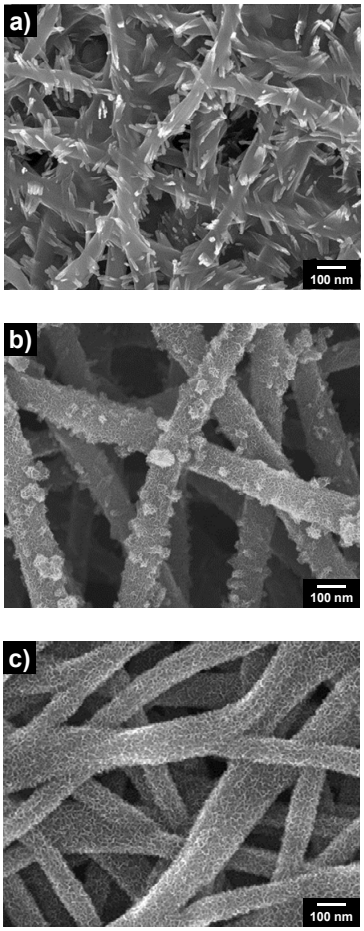

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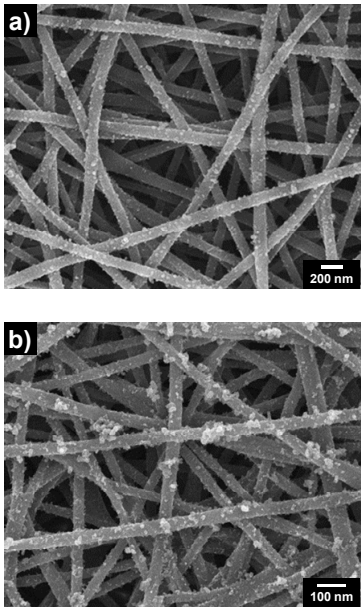

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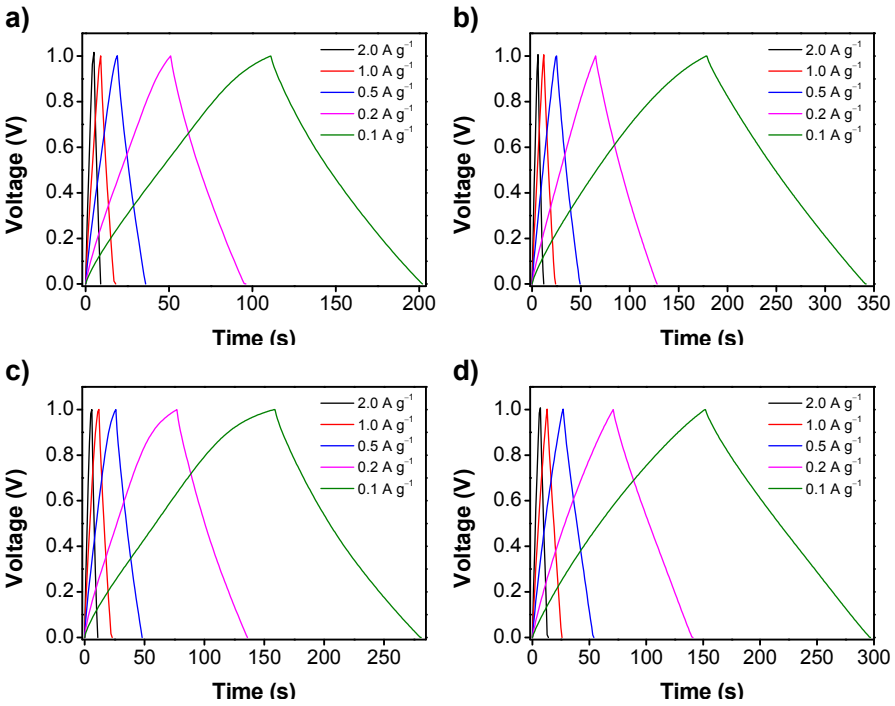

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