Electronic Supplementary Material (ESI) for Energy Advances.

Supporting Information for

Passivation of silicon nanowires with Ni participles and PEDOT/MnO_X composite for high-performance aqueous supercapacitors

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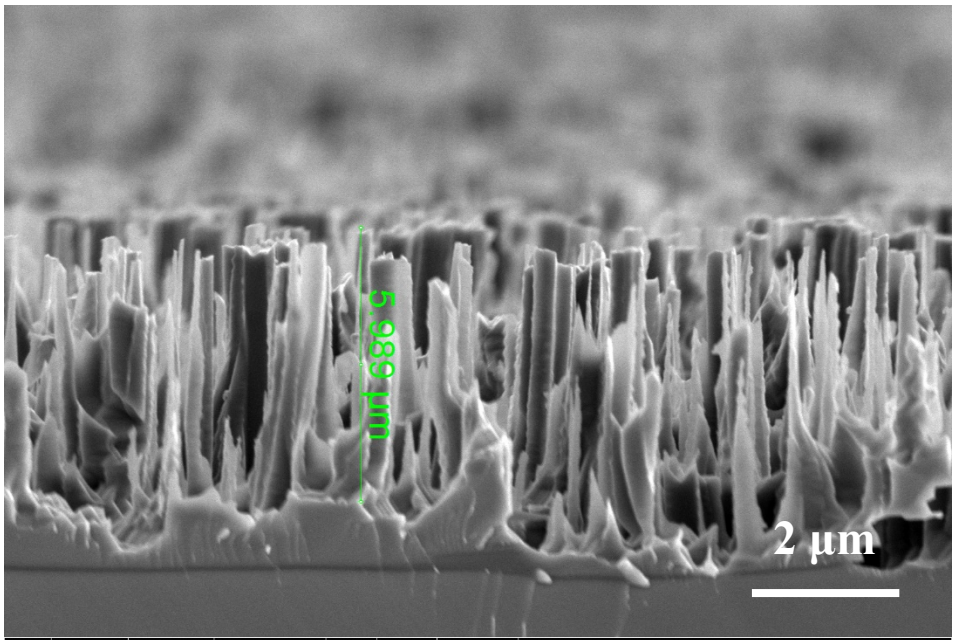

Fig. S1. Cross-section SEM image of SiNWs.

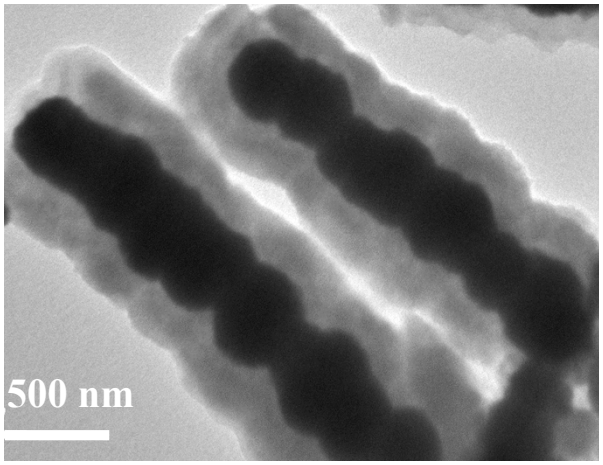

Fig. S2. TEM image of NSi@PM-Pt.

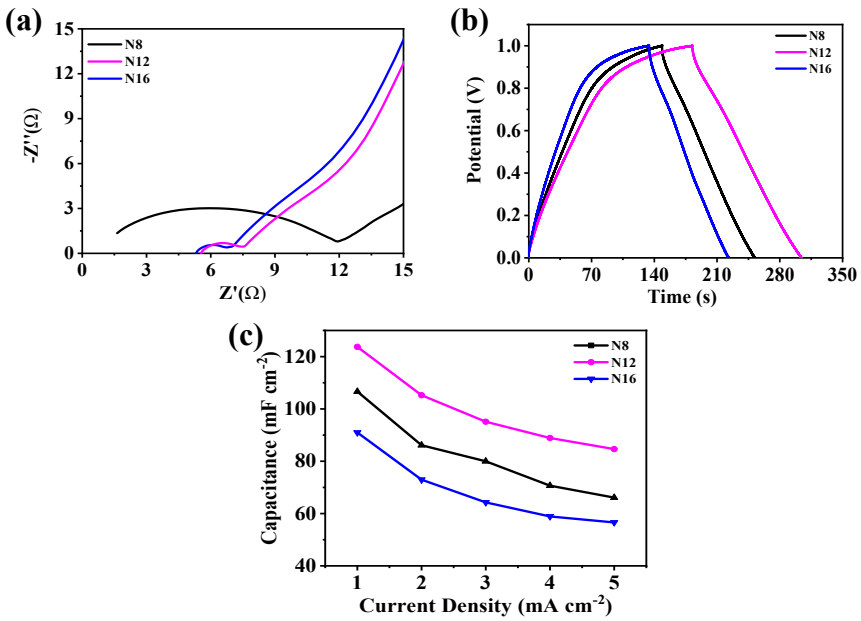

Fig. S3. Electrochemical performance of the NSi@PM electrodes with the different deposition time of Ni particles. (a) Nyquist plots, (b) GCD measurement at the current density of 1 mA cm^{-2}, (c) Areal capacitances of the electrodes at different scan rates.

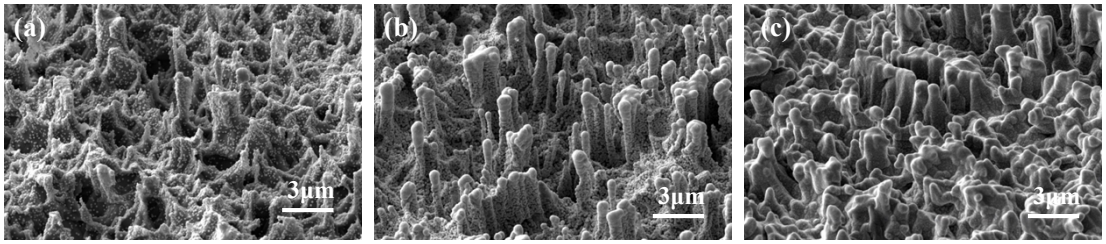

Fig. S4. SEM image at a tilt angle of 45 degrees for NSi@PM with the different deposition time of Ni particles. (a) 8 min, (b) 12 min, and (c) 16 min.

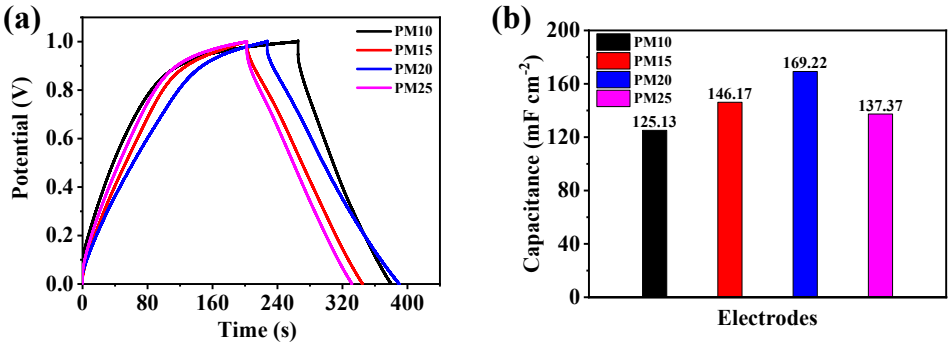

Fig. S5. Electrochemical performance of the NSi@PM electrodes with the different deposition time of PM. (a) GCD measurement at the current density of 1 mA cm^{-2}; (b) Areal capacitances at 1 mA cm^{-2} of different electrodes.

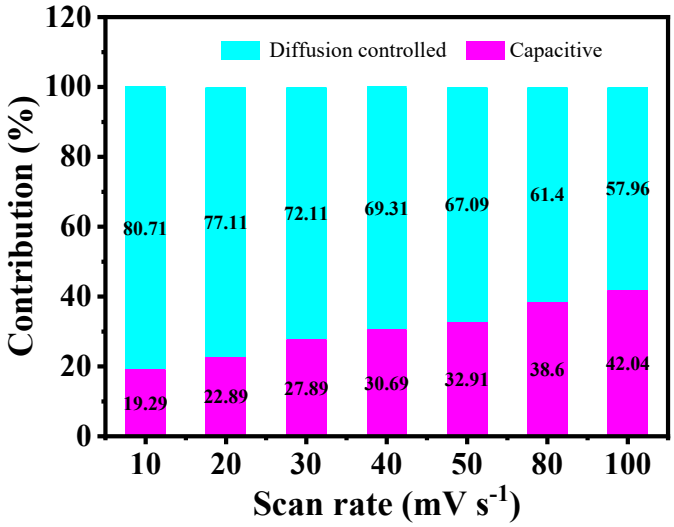

Fig. S6. Surface-capacitive contributions and diffusion-controlled contribution at different current scan rates for NSi@PM-Pt.