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Author Correction:

High-performance symmetric supercapacitors based on carbon nanotube/graphite nanofiber nanocomposites

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Correction to: *Scientific Reports* <https://doi.org/10.1038/s41598-018-27460-8>, published online 13 June 2018

The original version of this Article contained errors.

In the Results section, under subheading “Electrochemical performance of CNTs/GNFs in organic electrolyte”,

“The galvanostatic charge-discharge (GCD) curves measured at different current densities from 0.5 to 10 A g⁻¹ show good symmetry and nearly linear discharge slopes (Fig. 4b), implying the feature of EDL capacitor as well.”

now reads:

“The galvanostatic charge-discharge (GCD) curves measured at different current densities from 1 to 10 A g⁻¹ show good symmetry and nearly linear discharge slopes (Fig. 4b), implying the feature of EDL capacitor as well.”

As a result of the changes, Figure 4b was incorrect. The coloured lines and corresponding arrow labels were incorrectly given.

The original Figure 4 and accompanying legend appear below.

Lastly, the explanation provided for Equation 1 was incomplete and now includes parts 1b and 1c.

“The calculation of specific capacitance GCD curves:

$$C_{sp} = \frac{I\Delta t}{m\Delta V} \quad (1)$$

where I (A) is the discharge current, Δt(s) is the discharge time, m(g) is the mass of the single working electrode, and ΔV(V) is the voltage change during the discharge process.”

now reads:

“The calculation of specific capacitance GCD curves:

$$C_{sp} = \frac{I\Delta t}{m\Delta V} \quad (1a)$$

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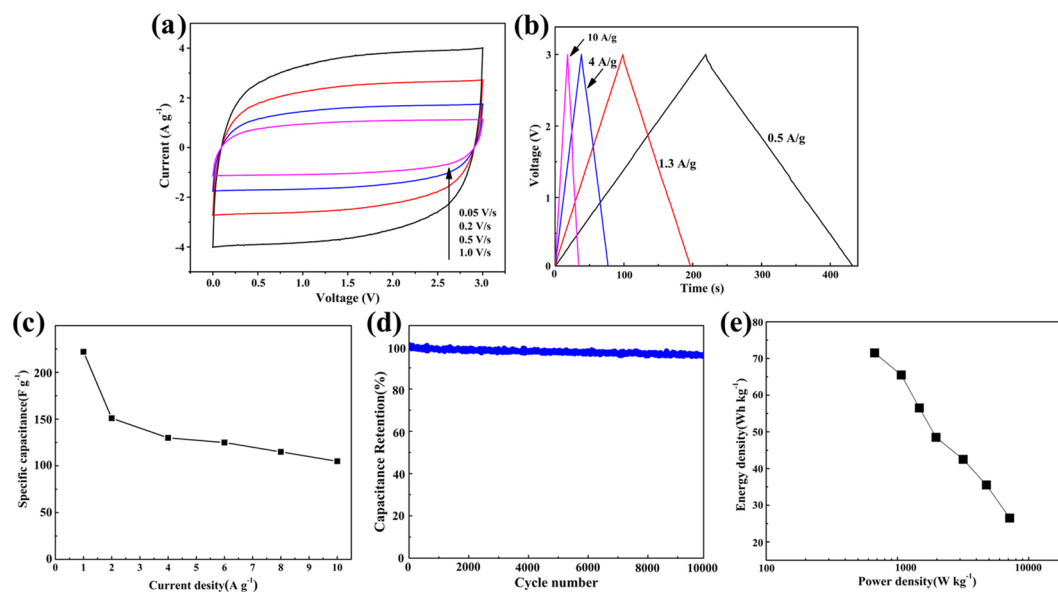


Figure 4. Electrochemical performances of the CNTs/GNFs in an organic electrolyte (NaClO₄ in EC/DMC). (a) CV curves at scan rates from 0.05 to 1 mV s⁻¹. (b) GCD curves under various current densities. (c) The specific capacitance of CNTs/GNFs calculated at various current densities. (d) Cycling stability tests at 2 A g⁻¹. (e) The Ragone plots of supercapacitor.

where I (A) is the discharge current, Δt (s) is the discharge time, m (g) is the mass of the single working electrode, and ΔV (V) is the voltage change during the discharge process.

The calculation of specific capacitance by GCD curves in three-electrode configuration:

$$C_{s1} = \frac{I}{(m \bullet (\frac{dV}{dt}))} \quad (1b)$$

The calculation of specific capacitance by GCD curves in two-electrode configuration:

$$C_{s2} = \frac{4I}{(m \bullet (\frac{dV}{dt}))} \quad (1c)$$

The original Article has been corrected.



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