Short Communication

Nickel Oxide Decorated Carbon Nanofibers as High Performance Electrodes for Supercapacitors

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doi: 10.20964/2019.03.13

Received: 5 November 2018 / Accepted: 27 December 2018 / Published: 7 February 2019

Hollow carbon nanofibers (HCF) are excellent electrode materials for the supercapacitors in the energy storage area. In this work, hollow carbon nanofibers are prepared firstly. After that, nickel oxide (NiO) nanoparticles are uniformly decorated in HCF (N@HCF) as high performance electrodes for supercapacitors. The electrochemical results indicate that the specific capacity value of N@HCF electrodes is 832 F g⁻¹ at the current density of 1 A g⁻¹. Moreover, the N@HCF electrodes show perfect rate performance and superior cycle stability.

Keywords: HCF; N@HCF; Specific Capacity; Electrochemical Performance

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