Successive Ionic Layer Adsorption and Reaction (SILAR) Method to Induce Mn$_3$O$_4$ Nanospots on CNTs for Supercapacitor

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Supporting information, S1

Figure S1. Schematic of experimental set up used for the deposition of Mn$_3$O$_4$/CNTs composite thin films
Figure S2. XPS spectra of (a) C1S and (b) O1S of Mn$_3$O$_4$/CNT sample
Supporting information, S3

Figure S3. SEM images of Mn$_3$O$_4$/CNT composite thin films at different mass loadings (a-b) for 60 SILAR cycles (c and d) for 90 SILAR cycles

As seen from the SEM images it is confirmed that the Mn$_3$O$_4$ nanoparticles of size around less than 10 nm are induced on the walls of CNTs. Due to the ion by ion growth mechanism no aggregation of nanoparticles on the walls of CNTs has been observed.