Electronic Supplementary Material (ESI) for Environmental Science: Nano.

Electronic Supplementary Information

Nitrogen doped graphene quantum dots-decorated earth-abundant nanotubes for enhanced capacitive deionization

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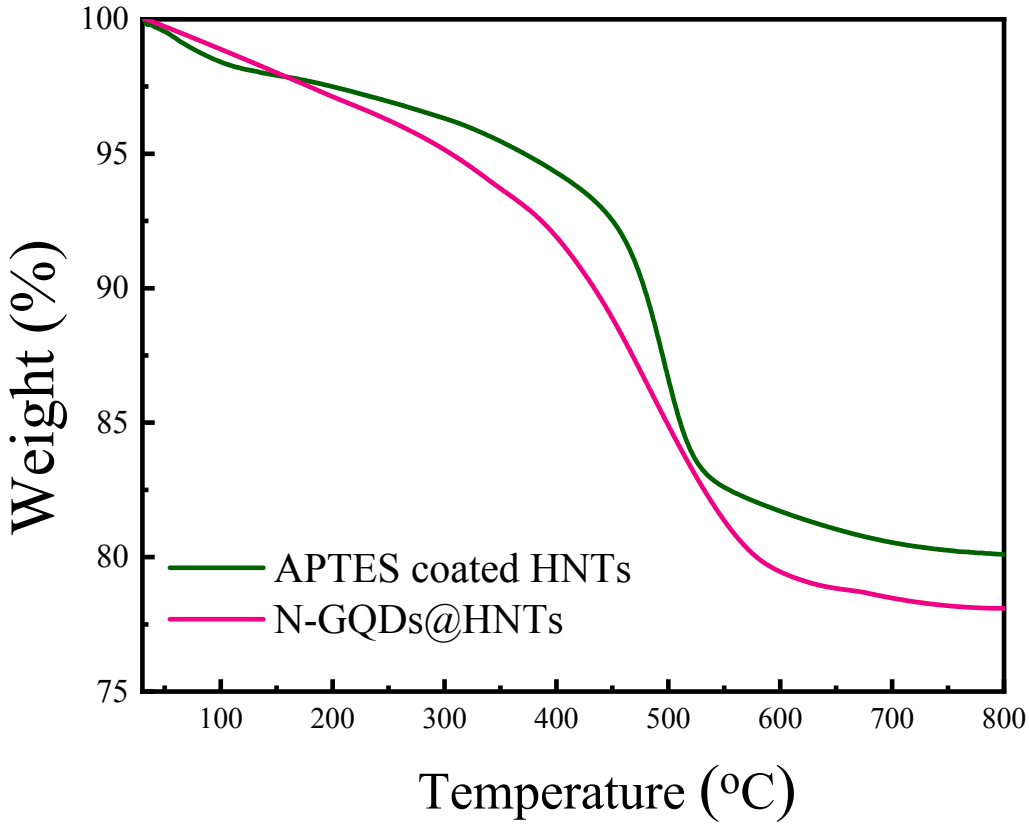

Figure S1. The thermogravimetric analysis (TGA) of APTES-coated HNTs and N-GQDs@HNT.

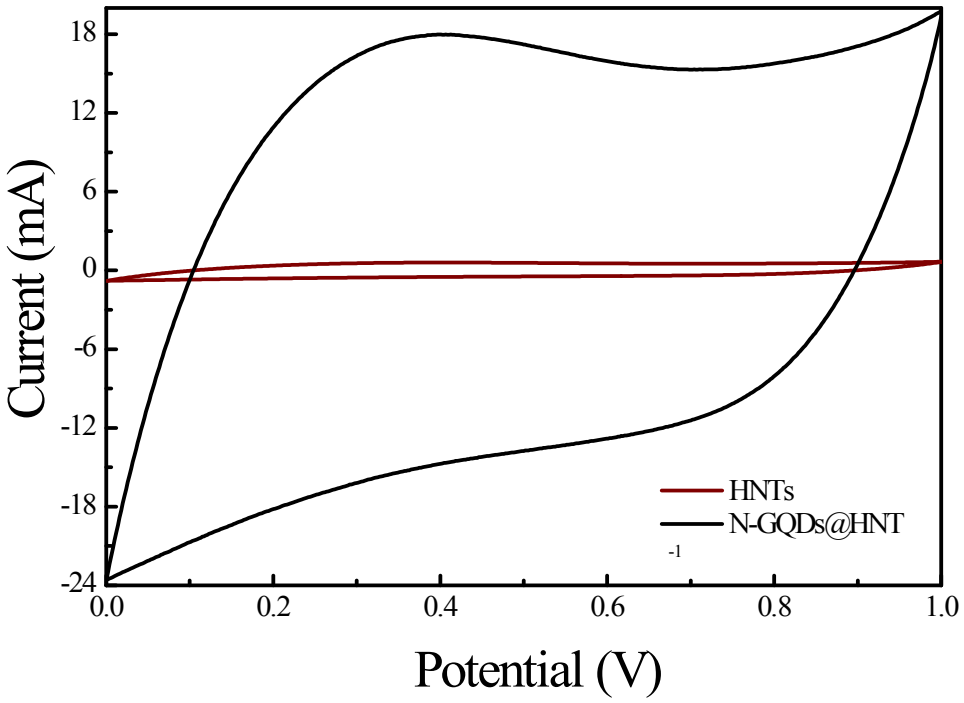

Figure S2. The comparison of cyclic voltammetric curves of as-received HNT and N-GQD@HNTs at a scan rate of 100 mV S^{-1}.

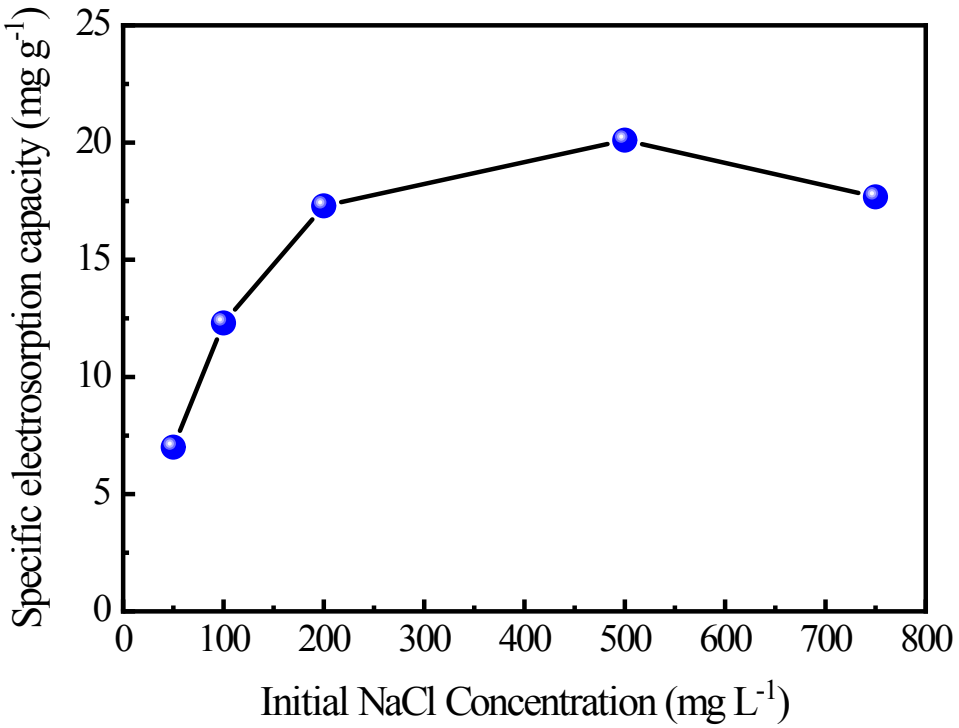

Figure S3. Specific electrosorption capacity (SEC) of N-GQDs@HNT at various initial NaCl concentrations.

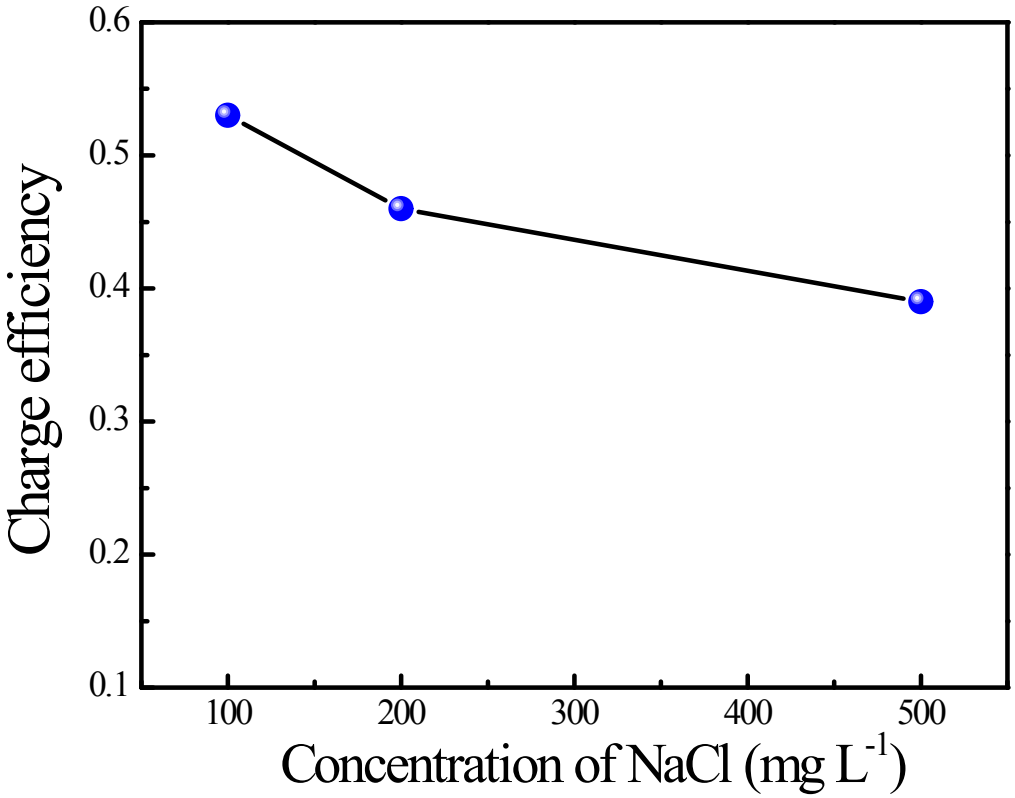

Figure S4. Charge efficiency of N-GQDs@HNT electrodes as a function of NaCl concentration.

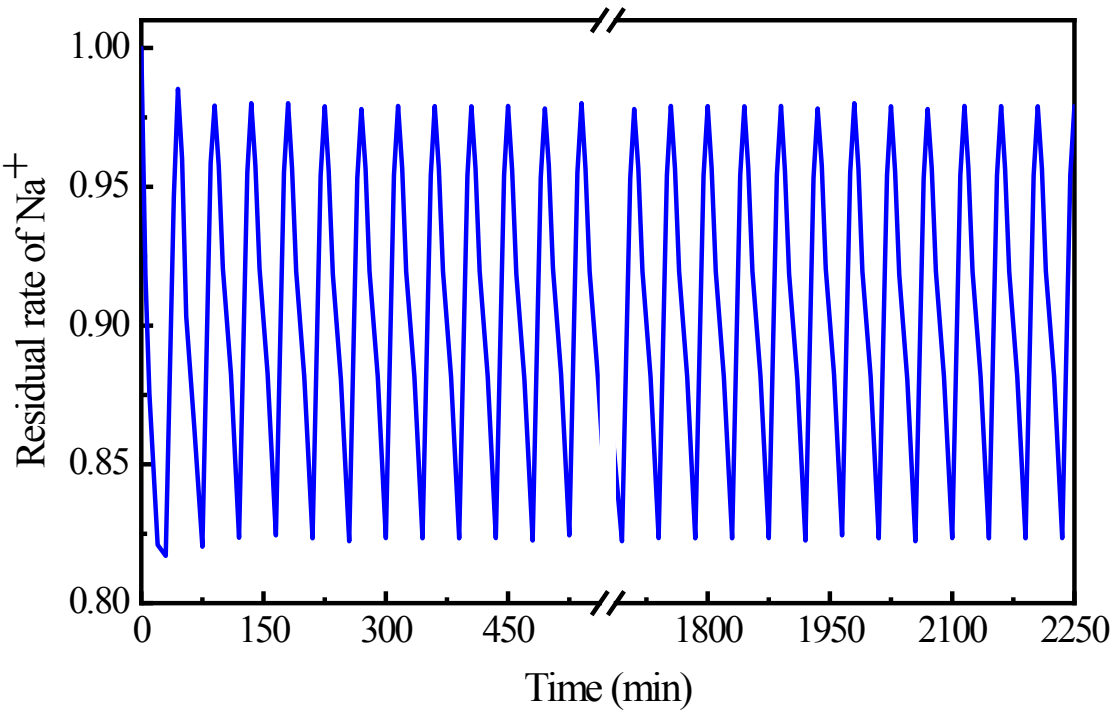

Figure S5. Regeneration performance of the N-GQDs@HNT electrode in batch mode using 500 mg L^{-1} NaCl solution at 1.2 V with a flow rate of 20 mL min^{-1}.