**Supporting Information**

**Table S1**. The specific surface area of NSAC-1, NSAC-2 and NSAC-3 samples.

|  |  |  |  |
| --- | --- | --- | --- |
| Sample | BET surface area (m2 g-1) | Pore volume (cm3 g-1) | Pore size (nm) |
| NSAC-1 | 1743 | 0.98 | 2.24 |
| NSAC-2 | 1893 | 1.06 | 2.26 |
| NSAC-3 | 1723 | 0.9639 | 2.23 |
| HTAC | 848 | 0.67 | 1.57 |

NSAC-2

NSAC-1

**Figure S1**. The BET isothermal curves of NSAC samples.

NSAC-3

These NSAC electrodes were tested for their porous nature via nitrogen sorption at 77 K. The adsorption and desorption isotherms, which show a large absorption of N2 at low P/P0 and a virtual adsorption plateau at P/P0 > 0.1. These characteristics are typical of the type I adsorption isotherm and indicate that the sorbents in question are microporous. Table S1 lists the values for the sorbents' BET surface area (SBET), total pore volume (V0), and micropore volume (Vt) that were determined using data from their adsorption of nitrogen dioxide.



**Figure S2**. N2 adsorption and desorption isotherm curves of NSAC samples.



**Figure S3**. Ragone plot of symmetric supercapacitor devices based on heteroatom-doped carbon electrodes [1-7].

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