Morphology control of polyaniline by dopant grown on hollow carbon fibers as high-performance supercapacitor electrodes

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Fig. S1 SEM images of CKF (a, b), HCl (c, d), H2SO4 (e, f), H3PO4 (g, h), HClO4 (I, j), PTSA (k, l) doped PANI@CKF

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Fig. S2 (a) CV and (b) GCD curves of two supercapacitor devices.

**Table S1** the conductivity of all PANI@CKF composites

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Doping agent | HClO4 | H2SO4 | H3PO4 | HCl | PTSA |
| Conductivity (S cm-1) | 1.57 | 0.61 | 0.44 | 0.48 | 0.32 |

**Table S2** Electrochemical parameters of these PANI@CKF electrodes from EIS tests

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Doping agent | H2SO4 | H3PO4 | HCl | HClO4 | PTSA |
| Rct(Ω) | 3.5 | 2.8 | 10.2 | 2.4 | 4 |