

Supplementary Materials

For article " N, S co-doped Activated Carbon Material with Ultra-high Surface Area for High-performance Supercapacitors"

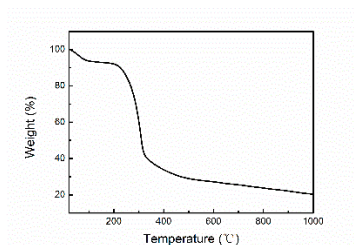


Figure S1. Thermogravimetric analysis of tobacco stalk

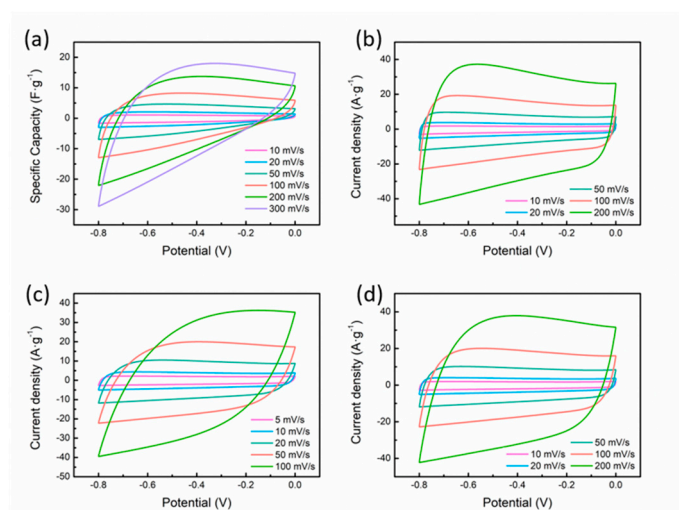


Figure S2. CV curves of (a) TC-850; (b) ATC-1; (c) ATC-2; (d) ATC-3.

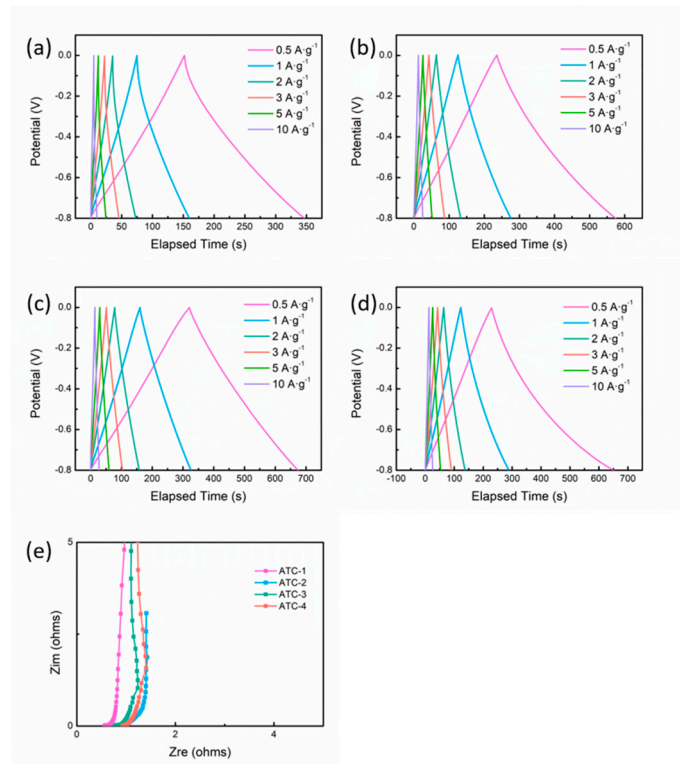


Figure S3. GCD curves of (a) TC-850; (b) ATC-1; (c) ATC-2; (d) ATC-3 and (e) Nyquist plot of ATC-X samples.

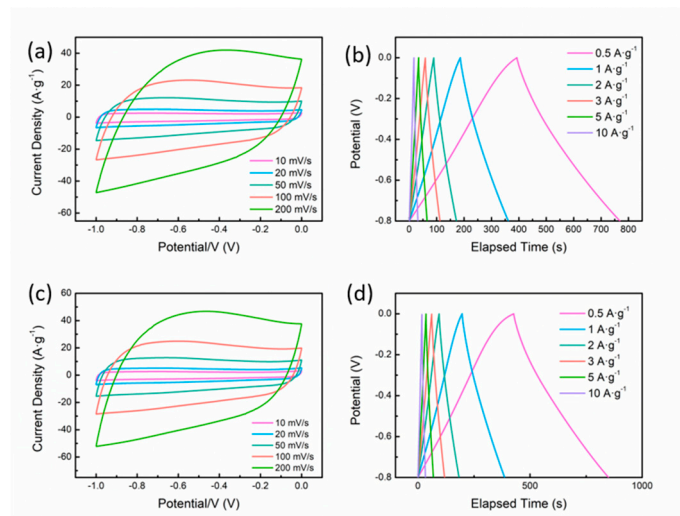


Figure S4. (a) CV curves of activated carbon from tobacco leaves; (b) GCD curves of activated carbon from tobacco leaves; (c) CV curves of activated carbon from tobacco stems; (d) GCD curves of activated carbon from tobacco stems.

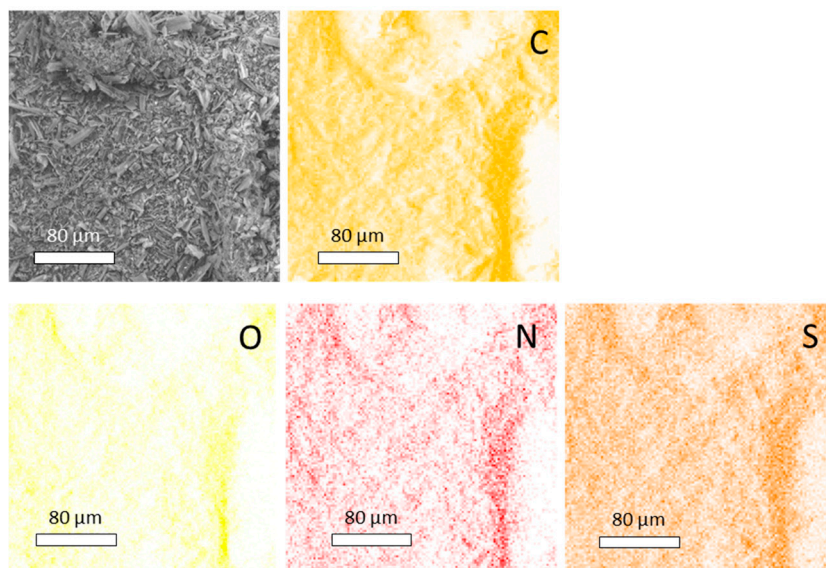


Figure S5. EDS mapping of NS-ATC-4 sample

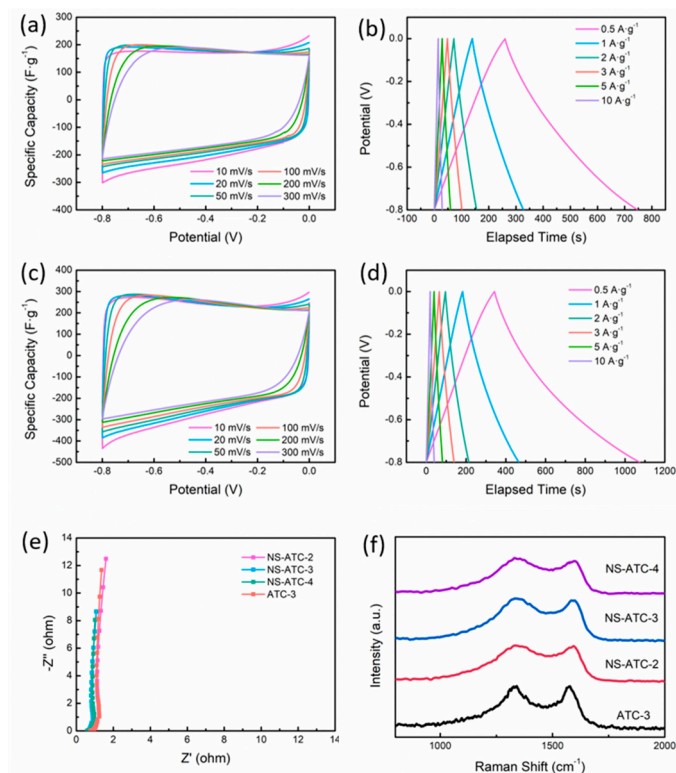


Figure S6. (a) CV curve of NS-ATC-2; (b) GCD curves of NS-ATC-2; (c) CV curves of NS-ATC-3; (d) GCD-curves of NS-ATC-3; (e) Nyquist plot of samples with and without doping; (f) Raman spectra of samples with and without doping.

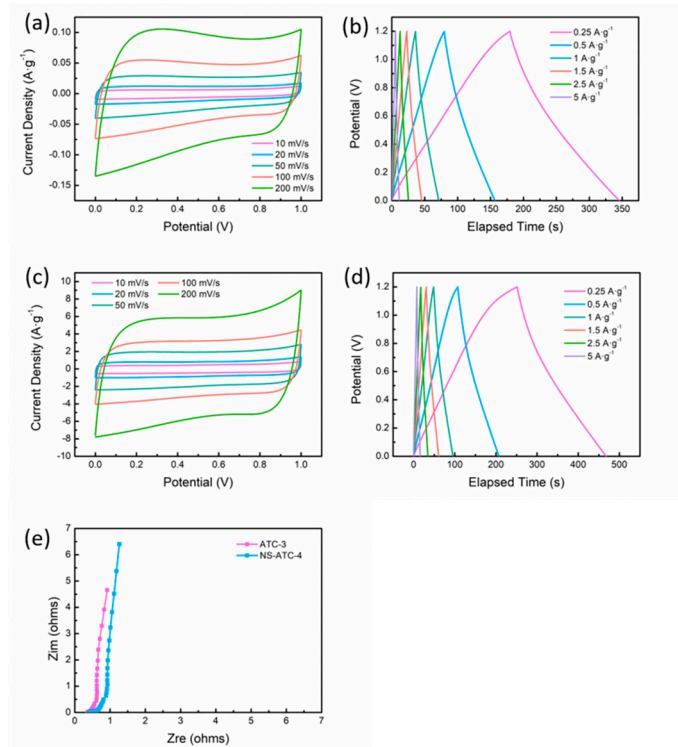


Figure S7. (a) CV curves of symmetrical capacitor assembled by ATC-3; (b) GCD curves of symmetrical capacitor assembled by ATC-3; (c) CV curves of symmetrical capacitor assembled by NS-ATC-3; (d) GCD-curves of CV curves of symmetrical capacitor assembled by NS-ATC-3; (e) Nyquist plot of symmetrical capacitors.