

Supplementary Materials: Facile Synthesis of Nitrogen and Oxygen Co-Doped Clews of Carbon Nanobelts for Supercapacitors with Excellent Rate Performance

Liang Yu, Shaozhong Zeng, Xierong Zeng, Xiaohua Li, Hongliang Wu, Yuechao Yao, Wenxuan Tu, and Jizhao Zou

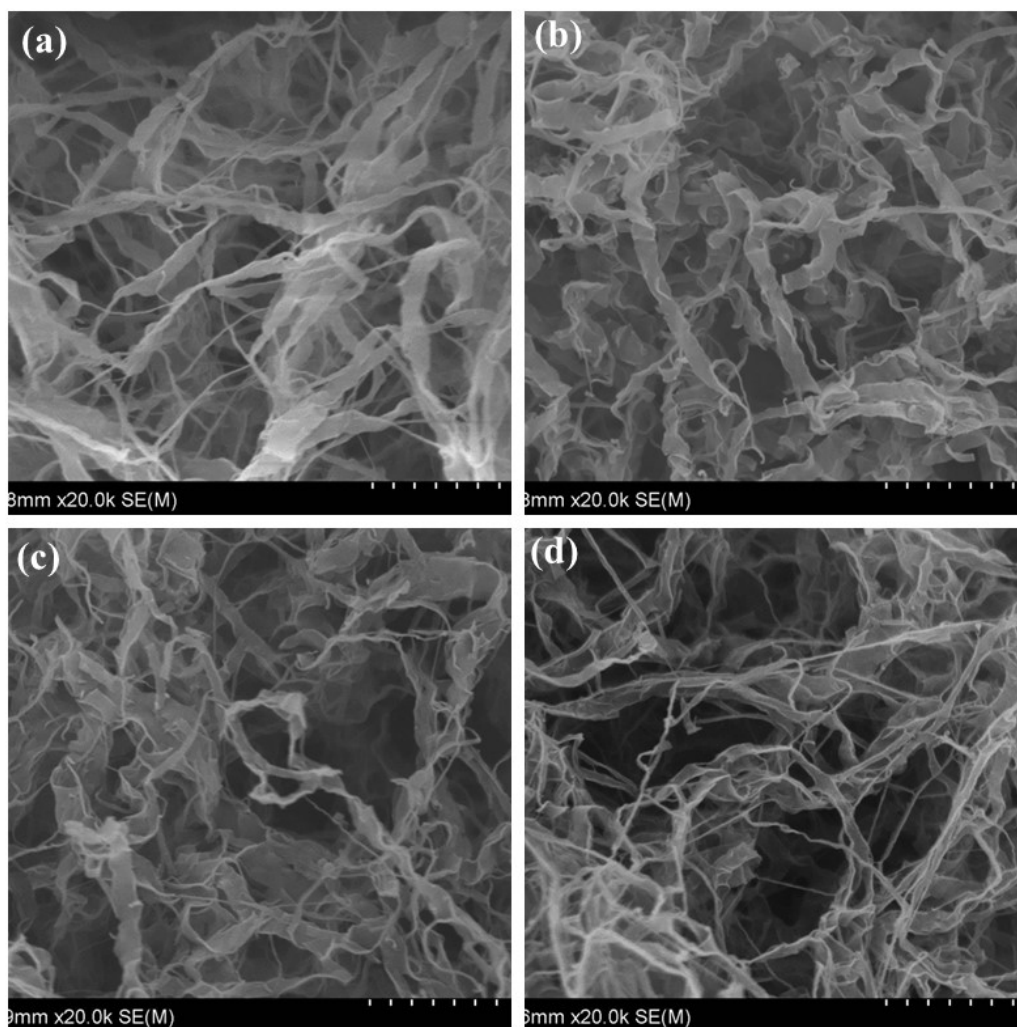


Figure S1. The SEM image of the (a) LPHF, (b) NCNBs-30, (c) NCNBs -45 and (d) NCNBs -60.

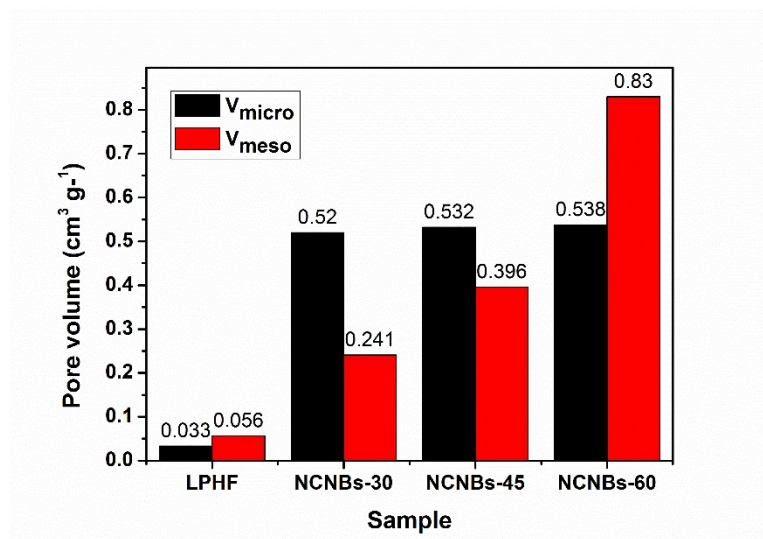


Figure S2. Micropore and mesopore volume of all samples.

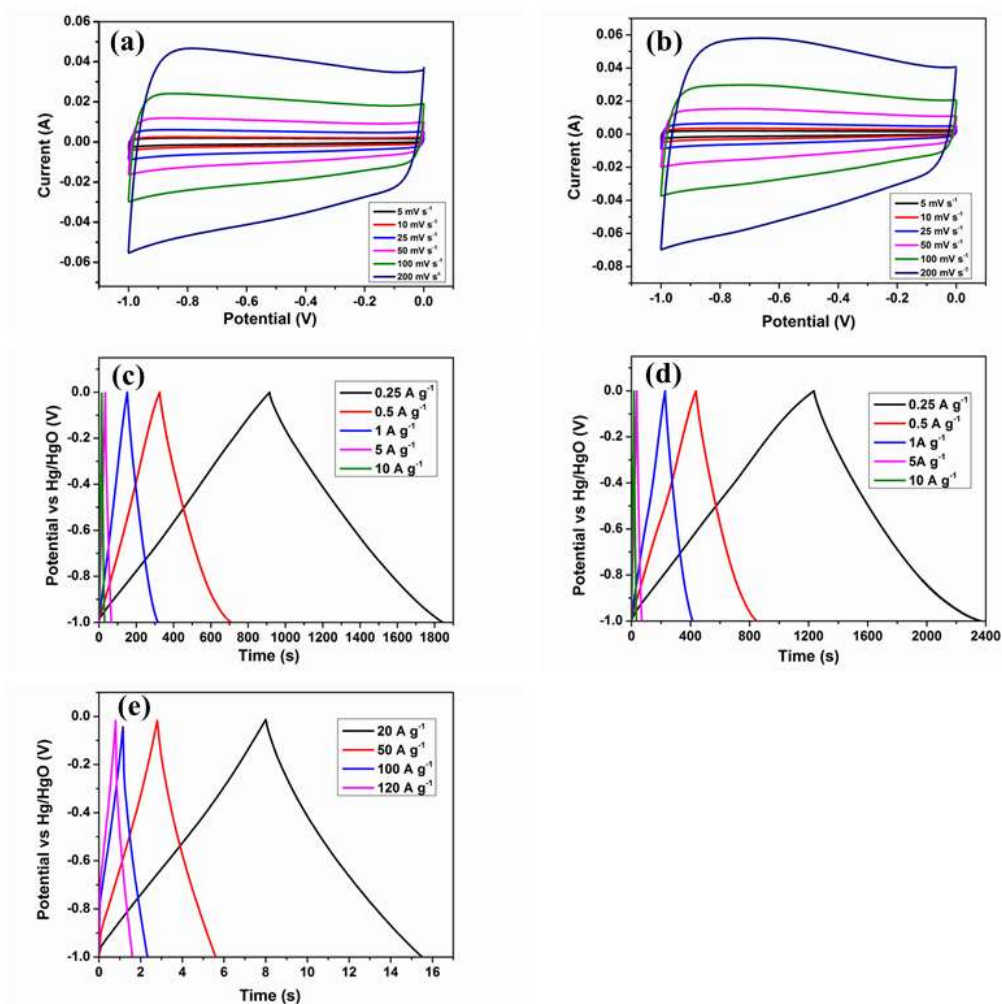


Figure S3. (a) The CV curves of NCNBs-30 and (b) NCNBs-60 at different scan rates, (c) Galvanostatic charge-discharge curves at different current densities of NCNBs-30 and (d) NCNBs-60, (e) Galvanostatic charge-discharge curves of NCNBs-45 at high current densities.

Table S1. Comparison of specific capacitance with various porous carbon electrode.

Electrode Materials	Electrolyte	Specific Capacitance (F g ⁻¹)	Ref.
N-doped HPC	6M KOH	260 F g ⁻¹ /0.2 A g ⁻¹ , 114 F g ⁻¹ /40 A g ⁻¹	[1]
KOH-activated nitrogen doped porous carbon nanowires	1M H ₂ SO ₄	291/1 A g ⁻¹ , 150 F g ⁻¹ /10 A g ⁻¹	[2]
Graphene-based nitrogen self-doped HPC aerogels	6M KOH	197 F g ⁻¹ /0.2 A g ⁻¹ , 108 F g ⁻¹ /10 A g ⁻¹	[3]
Activated carbon nano-onion prepared using 6M KOH	2M KNO ₃	126.3 F g ⁻¹ /0.75 A g ⁻¹ , 89.6 F g ⁻¹ /25 A g ⁻¹	[4]
Graphene-beaded carbon nanofibers	6M KOH	263.7 F g ⁻¹ /0.1 A g ⁻¹ , 131.3 F g ⁻¹ /2.5 A g ⁻¹	[5]
N-doped microporous carbon/carbon nanotubes	1M H ₂ SO ₄	162 F g ⁻¹ /0.5 A g ⁻¹ , 140 F g ⁻¹ /2A g ⁻¹	[6]
Hierarchical porous carbon aerogel derived from bagasse	6M KOH	142 F g ⁻¹ /0.5 A g ⁻¹ , 90 F g ⁻¹ /10A g ⁻¹	[7]
3D hexaporous Carbon	1M H ₂ SO ₄	154 F g ⁻¹ /0.5 A g ⁻¹ , 123 F g ⁻¹ /10A g ⁻¹	[8]
Microporous Carbon Nanoplates	1M H ₂ SO ₄	264 F g ⁻¹ /0.1 A g ⁻¹ , 105 F g ⁻¹ /70A g ⁻¹	[9]
Three-dimensional hierarchical porous carbon	6M KOH	236.3 F g ⁻¹ /0.2 A g ⁻¹ , 152.5 F g ⁻¹ /30A g ⁻¹	[10]

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