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Supporting Information

Boosting the Supercapacitance of Nitrogen-Doped Carbon by Tuning Surface Functionalities

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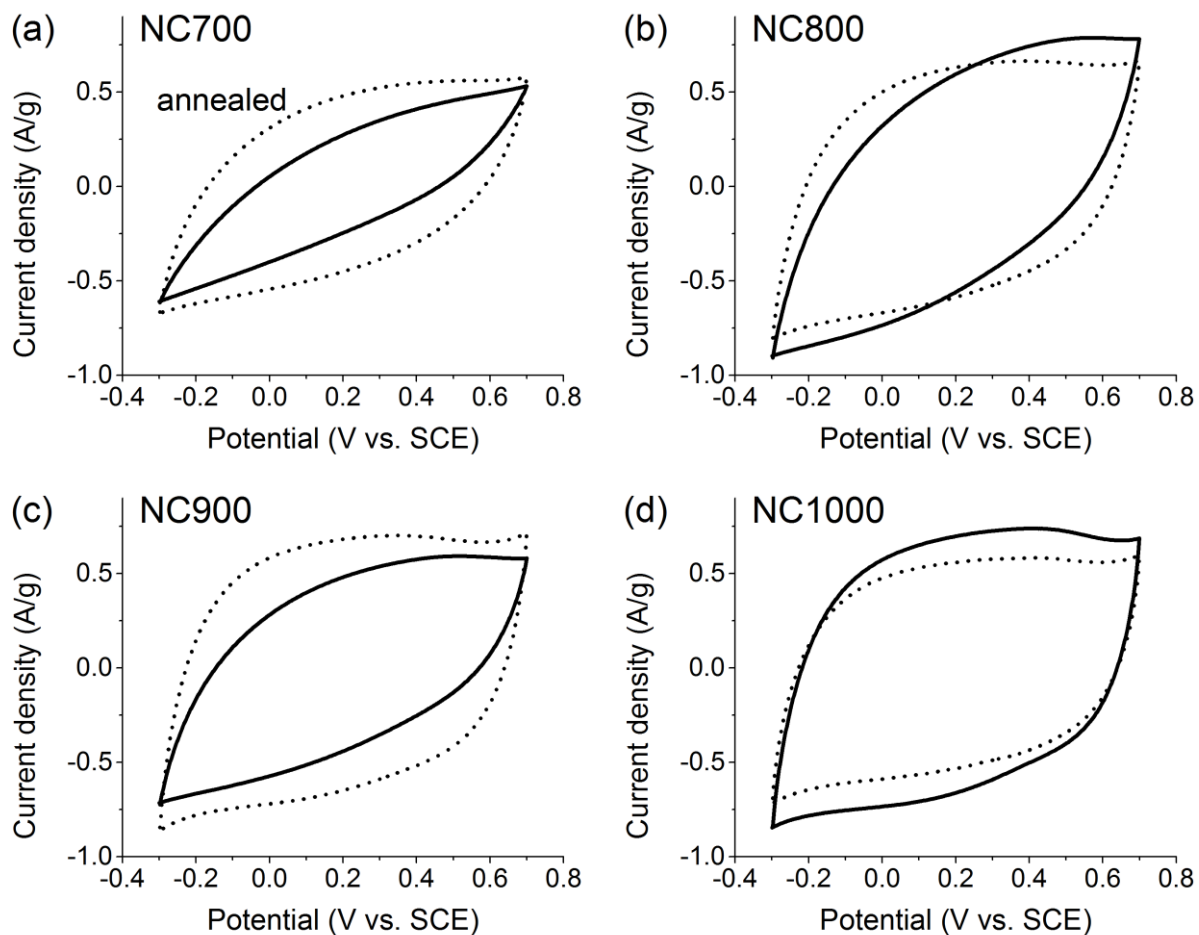


Figure S1. Cyclic voltammetry in 1 M H₂SO₄ at 5 mV/s, for carbons before a 1000 °C heat treatment (solid line) and after it (dotted line).

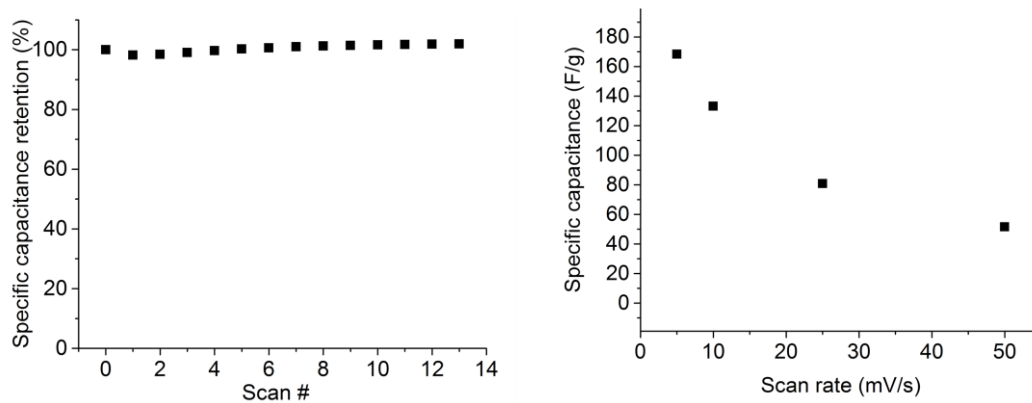


Figure S2. (a) Cycling behavior and (b) rate capability of sample NC-0C-4h in 1M H₂SO₄.

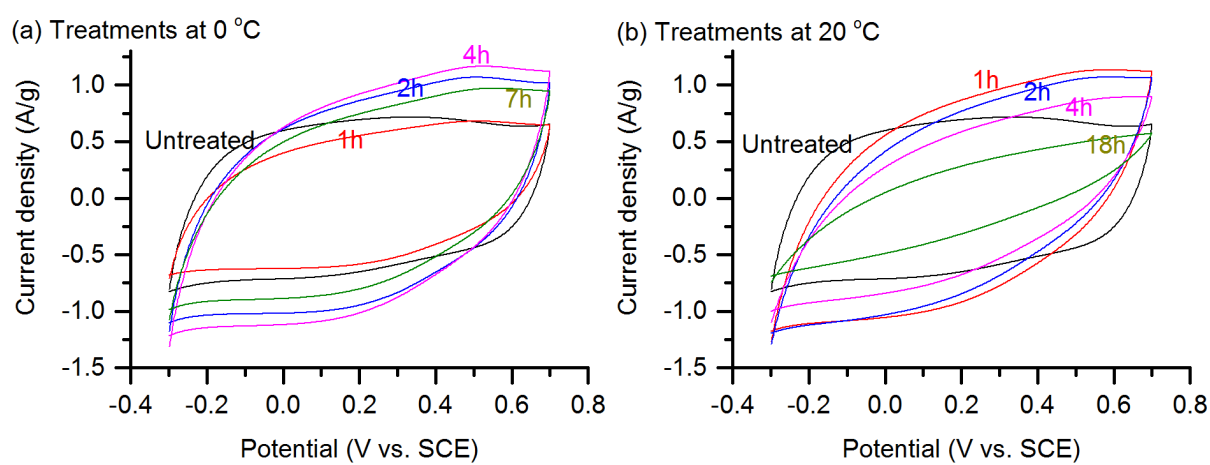


Figure S3. Cyclic voltammetry in 1 M H₂SO₄ at 5 mV/s, for carbons from the NC-900* batch, treated at (a) 0 °C and (b) 20 °C. Different treatment times are marked on the scheme.

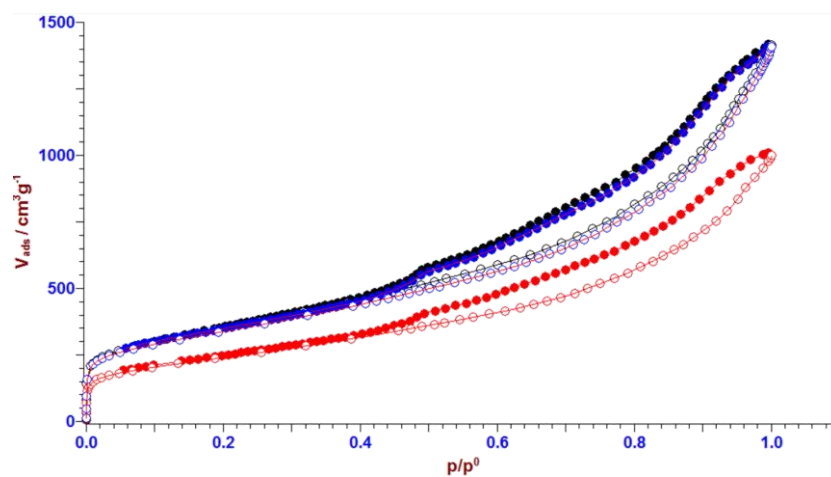


Figure S4. N₂ adsorption-desorption isotherms at 77K on carbon NC900* (black), and carbons treated in acid at 0 °C / 4h (red) and at 20 °C / 1h (blue).

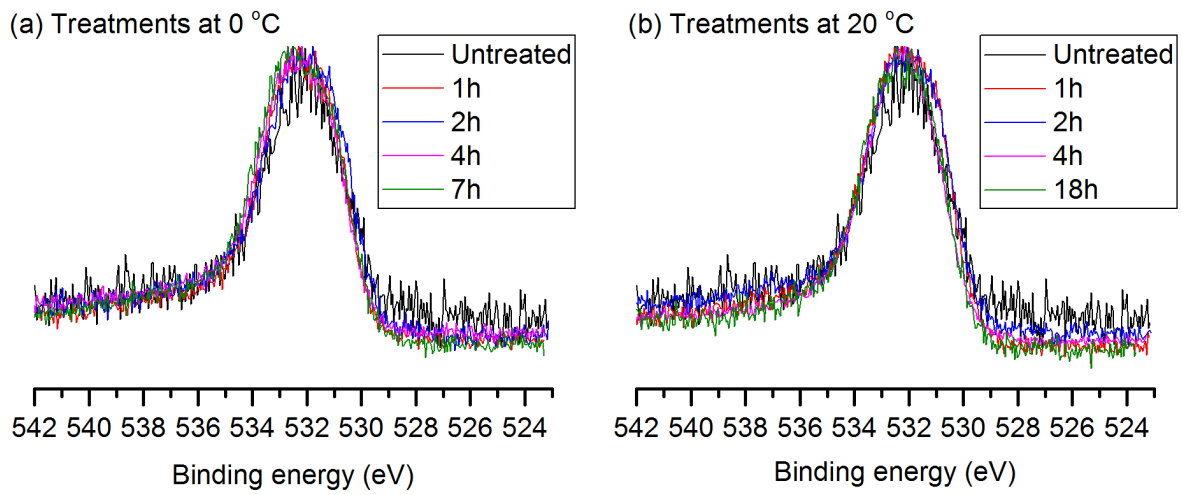


Figure S5. X-ray photoelectron spectra in the O-1s region for carbons treated at (a) 0 °C and (b) 20 °C.

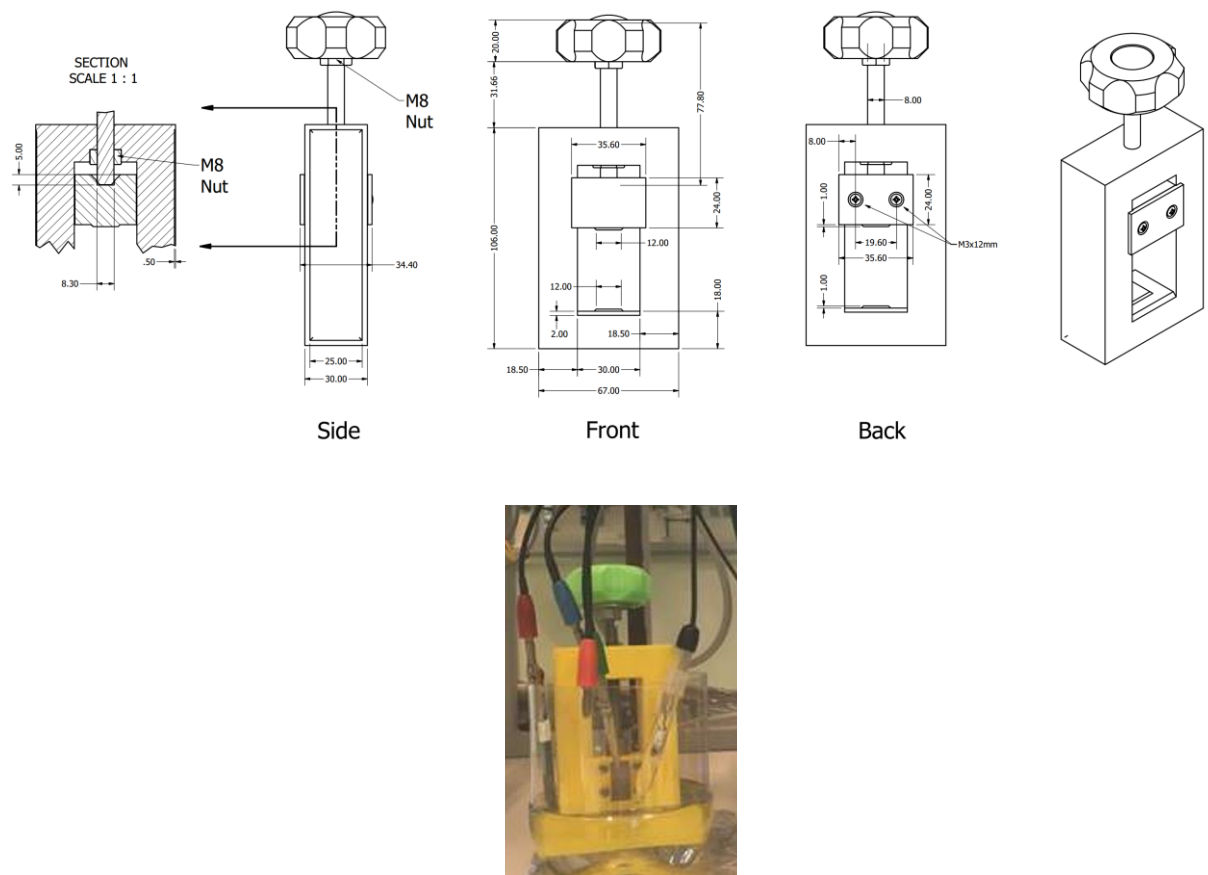


Figure S6. CAD model and final structure of a supercapacitor testing device, 3D-printed from high impact polystyrene.