

Supporting Information

Electrospun Enzymatic Hydrolysis Lignin-Based Carbon Nanofibers as Binder-Free Supercapacitor Electrodes with High Performance

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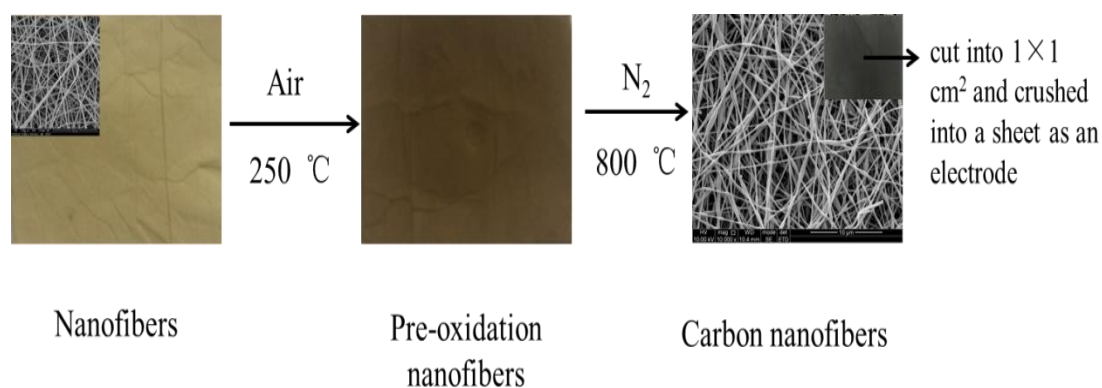


Figure S1. The fabrication steps of an electrode.

In this manuscript, we applied a simple electrode preparation method for supercapacitor application. Specifically, in a transitional electrode preparation process, the materials are usually ground to fine powders followed by glue the powders onto nickel foams to produce an electrode. In our simple electrode preparation process, the lignin-based electrospun CNFs (which is actually a membrane) is directly cut and crushed into a sheet as an electrode.

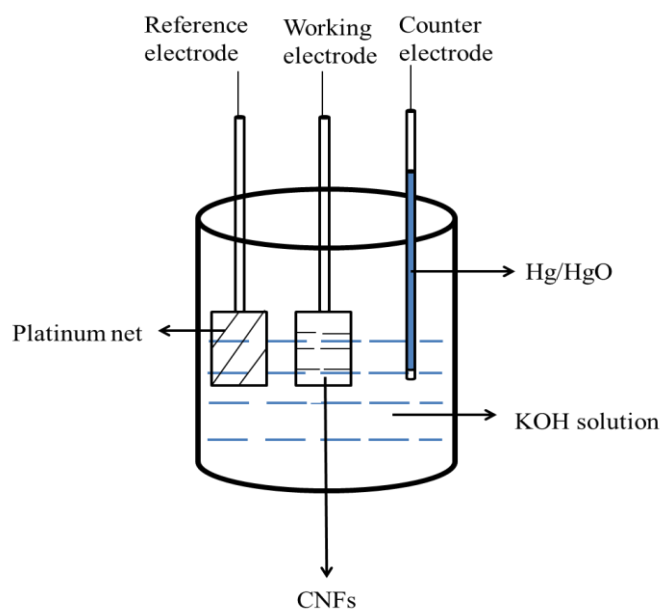


Figure S2. The actual three-electrode setup.

The reference electrode is used to ensure the potential of working electrode. The counter electrode is used for conducting current. Before electrochemical measurements, the working electrode will be pretreated by vacuum impregnation in KOH solution in order to fully infiltrate the working electrode.