

## Supporting Information

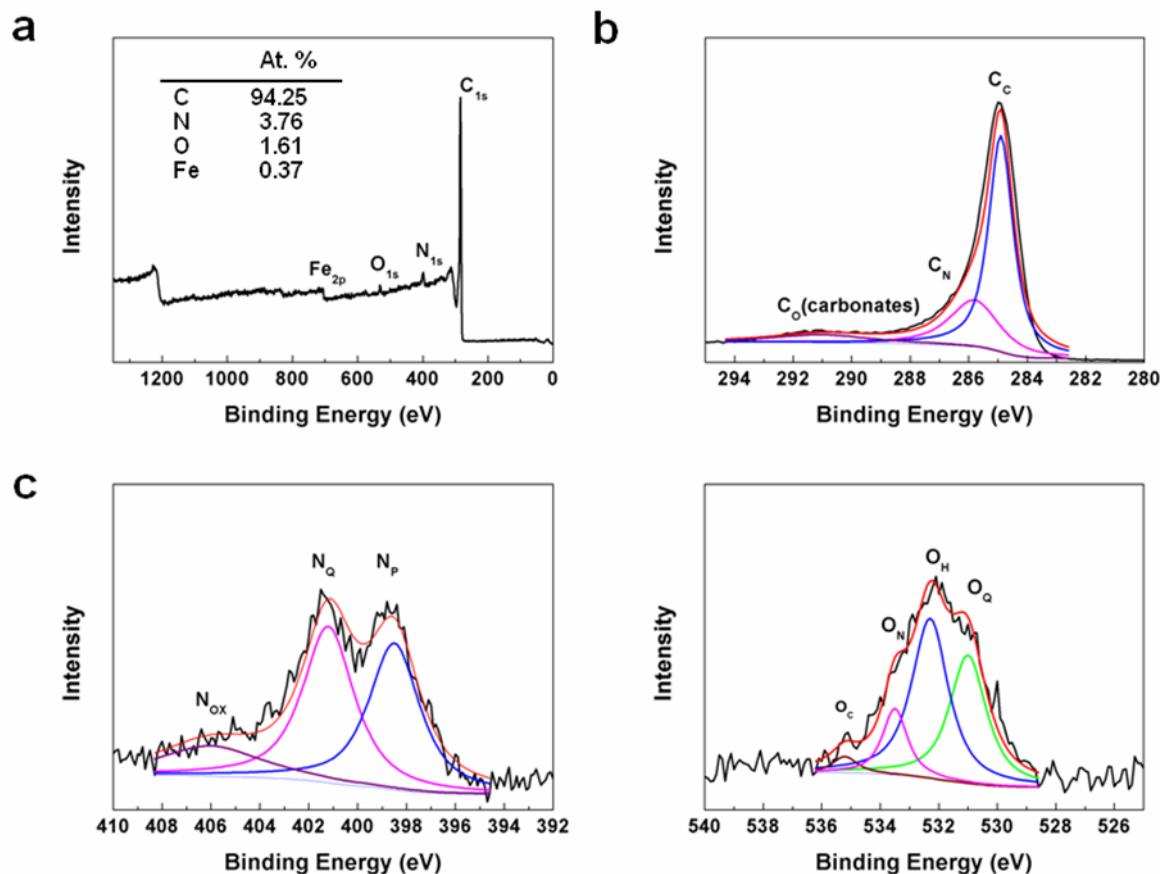


Figure S1. XPS data of the N-CNTs.



Figure S2. Transferred and vertically oriented N-CNTs on ITO/Glass (left) and on ITO/PEN (right).



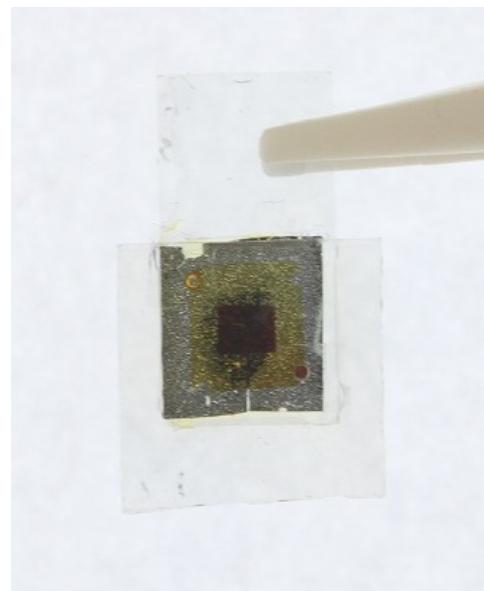


Figure S3. Photograph of DSSC with the N-CNT counter electrode.

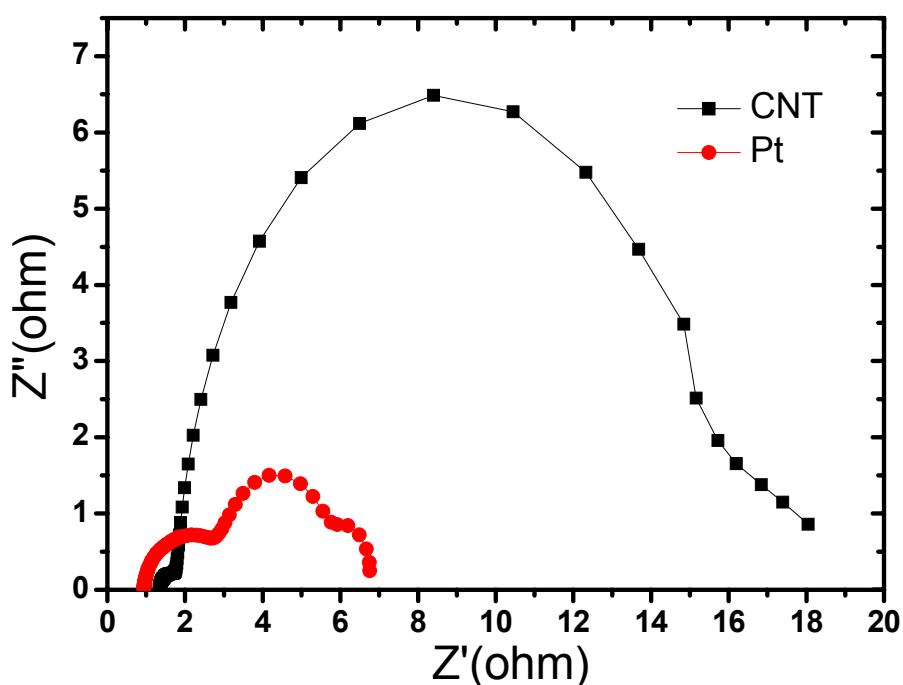


Figure S4. Nyquist plots of DSSCs with different counter electrodes from the impedance measurement.

