

## **Electronic Supplementary Information**

# **TEMPO-mediated oxidized nanocellulose incorporating with its derivatives of carbon dots for luminescent hybrid films**

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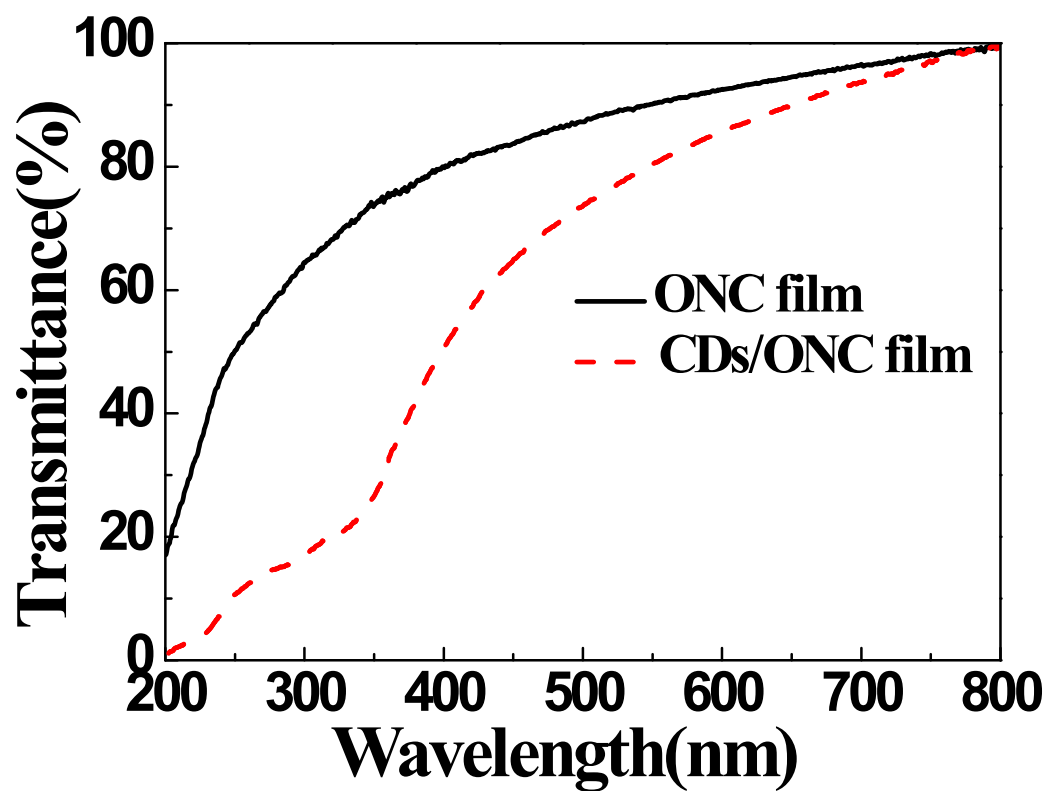


Figure S1. UV-vis spectra of ONC film and CDs/ONC hybrid film.

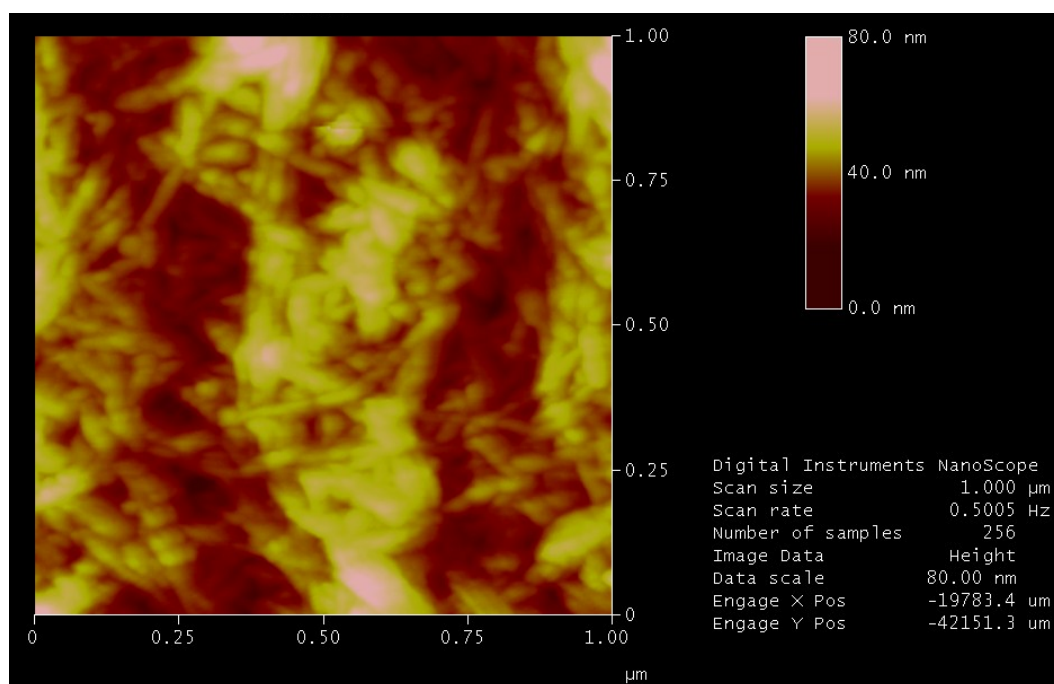


Figure S2. AFM image of CDs/ONC hybrid film.

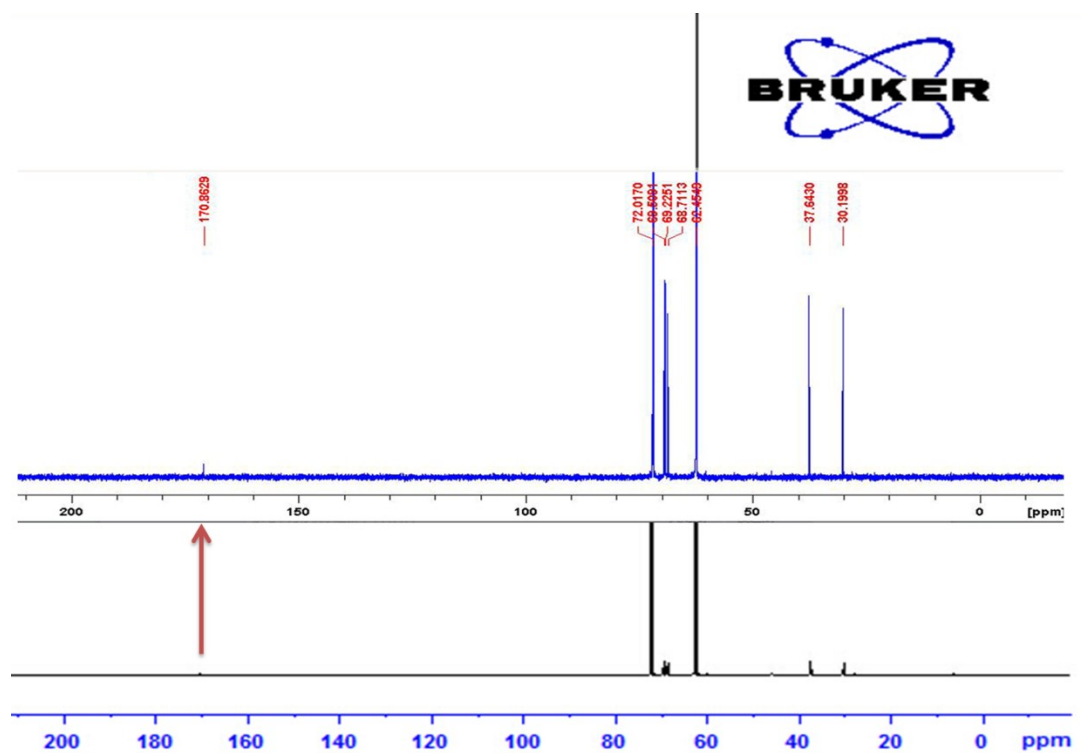
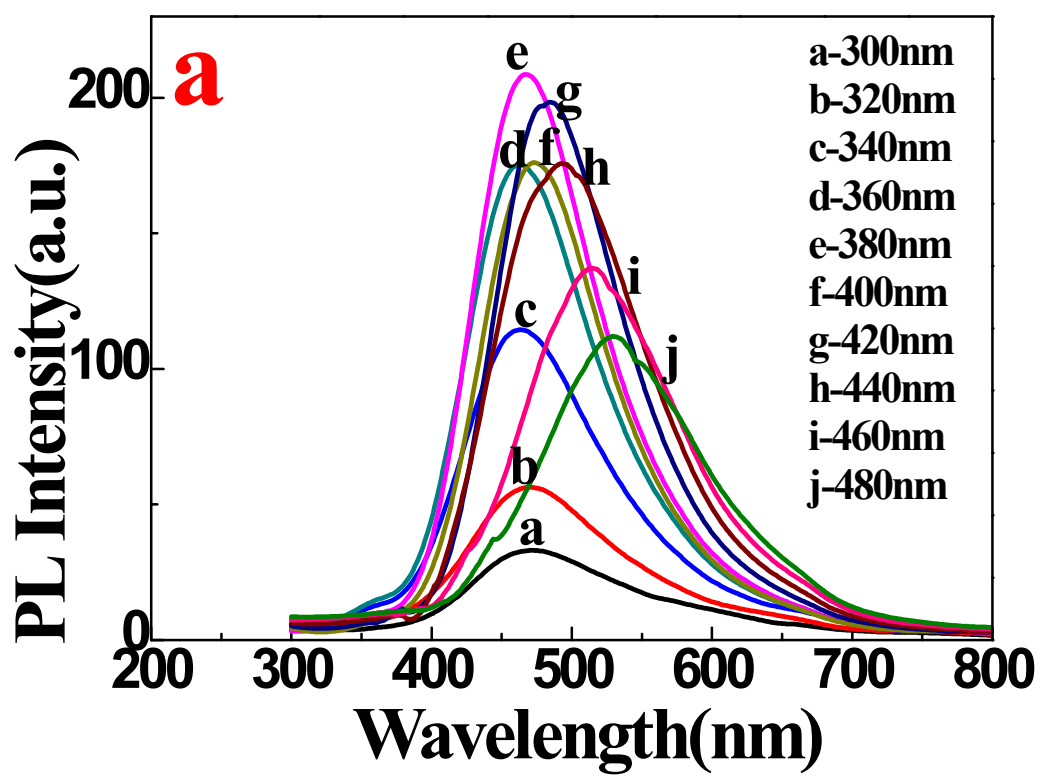


Figure S3.  $^{13}\text{C}$ -NMR spectrum of CDs/ONC.



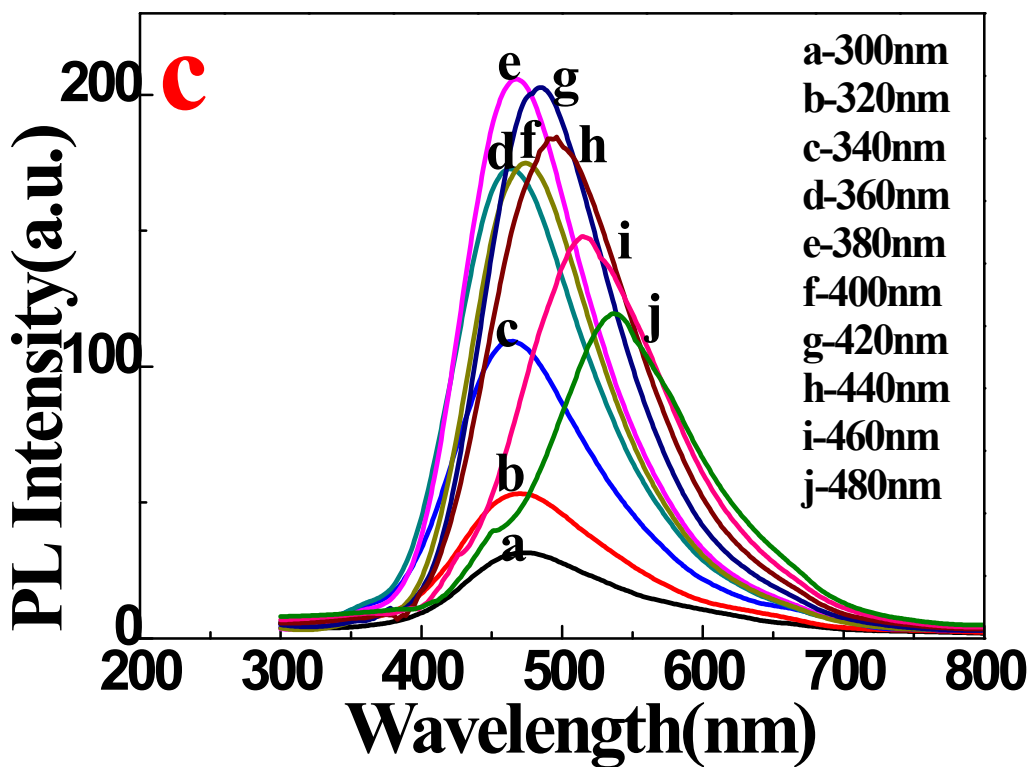
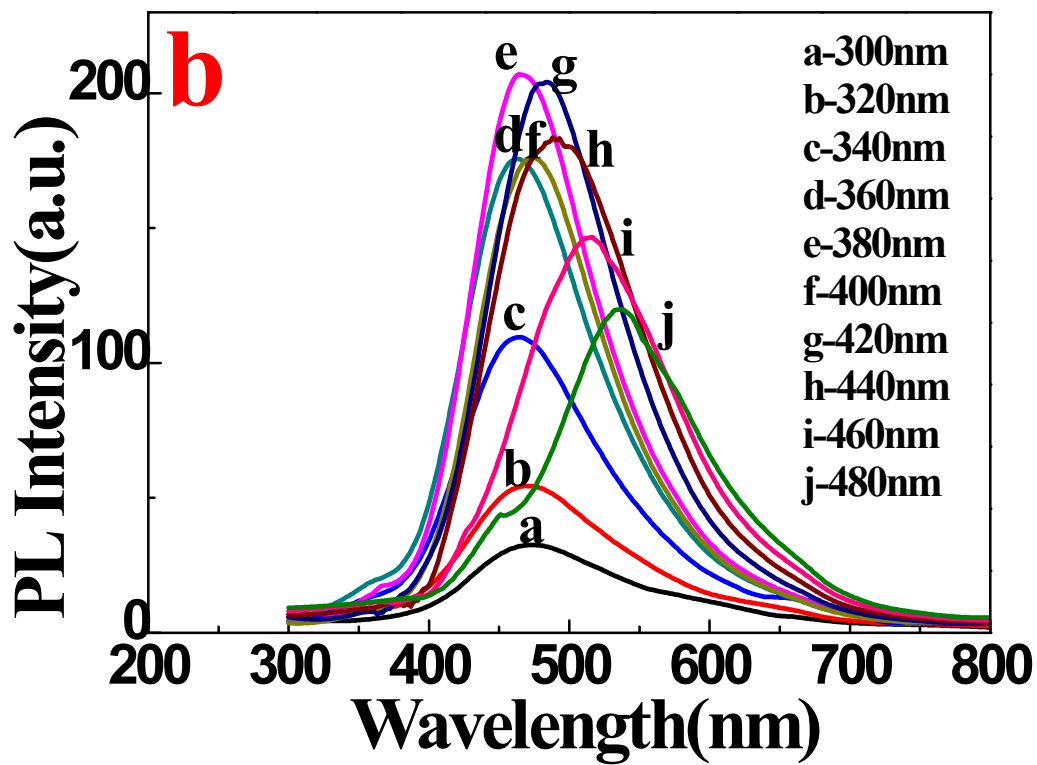


Figure S4. Photoluminescence emission spectra of CDs/ONC hybrid film after bending for (a) 500, (b) 1000 and (c) 2000 times.