

Supporting information

A microfluidics vapor-membrane-valve generated by laser irradiation on carbon nanocoils

Yuli Liu,^a Chengwei Li,^b Ming Zhao,^c Jian Shen^{*d} and Lujun Pan^{*b}

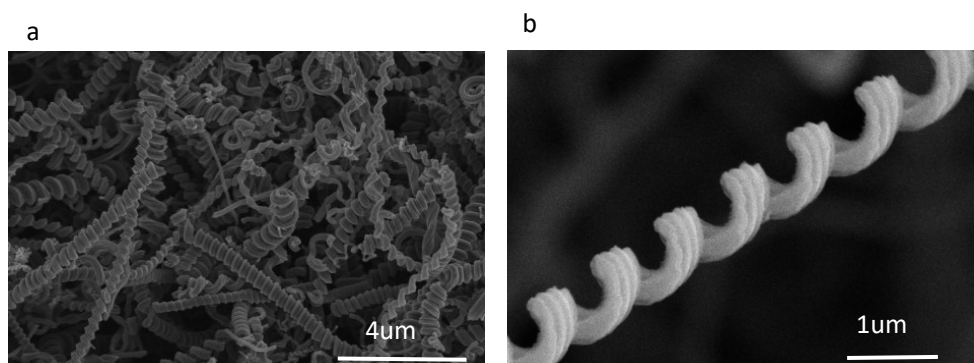


Figure S1 (a) SEM image of a batch of CNCs. (b) SEM image of a single CNC.

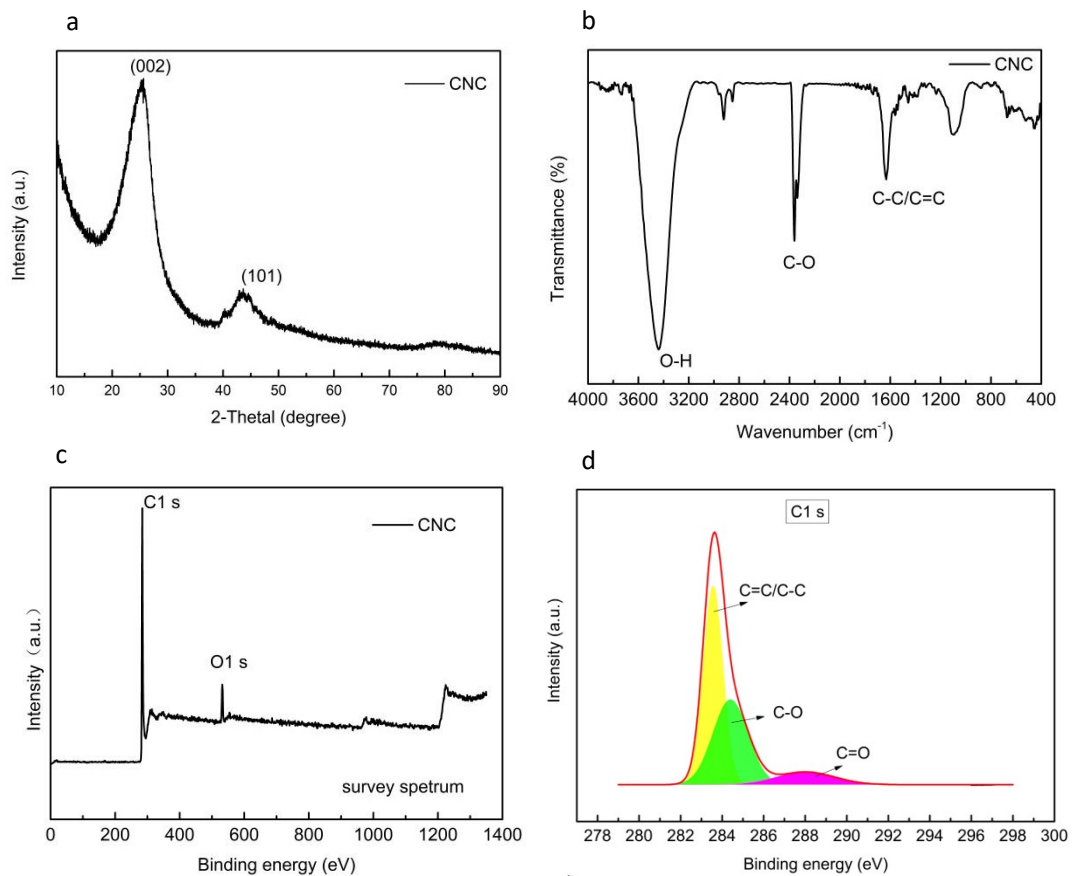


Figure S2 (a) XRD pattern of CNCs powder sample. (b) FTIR spectra of CNCs powder sample. (c) and (d) show XPS survey spectra of CNCs and high-resolution spectra of C 1s, relatively.

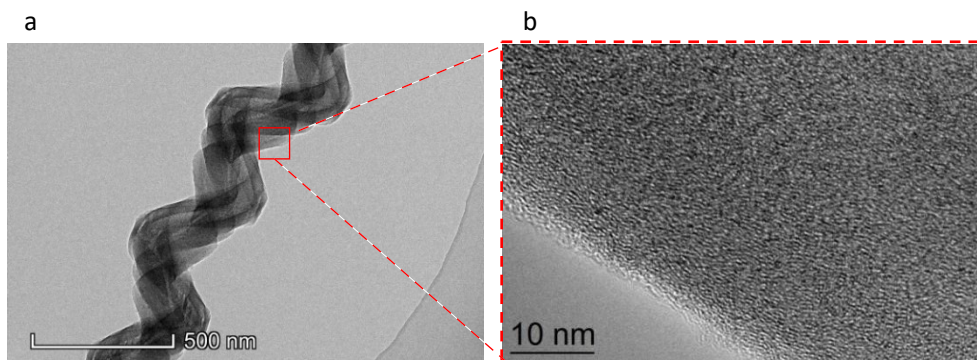


Figure S3 (a) TEM image of a single CNC. (b) The high magnification for the dashed line area in (a).

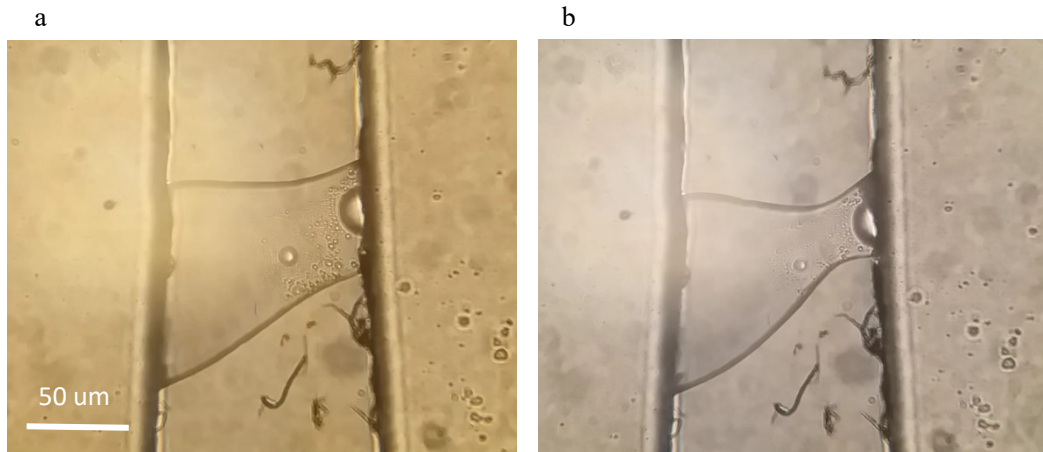


Figure S4. Microscope images of a MVMV depression shaped by fluid flow with 10 seconds in (a) and 15 seconds in (b).