Electronic Supplementary Material (ESI) for Nanoscale.

Table S1. Calcium concentration in ethanol/dw mixture 3/7 for alginate crosslinking in PCL/AL NF.

	$CaCl_2$ (%, wt)	$CaCl_2$ (mM)	COO^- : Ca^{2+}
ALNF1 ($ALNF_{high}$)	2.000	180	1:8500
ALNF2	0.240	21	1:1000
ALNF3	0.100	9	1:500
ALNF4 ($ALNF_{mid}$)	0.020	1.8	1:100
ALNF5	0.010	0.9	1:50
ALNF6 ($ALNF_{low}$)	0.006	0.54	1:30
ALNF7	0.002	0.18	1:10
ALNF0	-	-	-

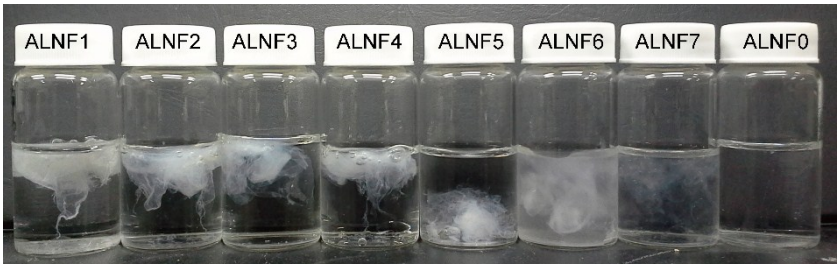

Figure S1. Alginate nanofiber suspension in distilled water after discarding PCL shell.

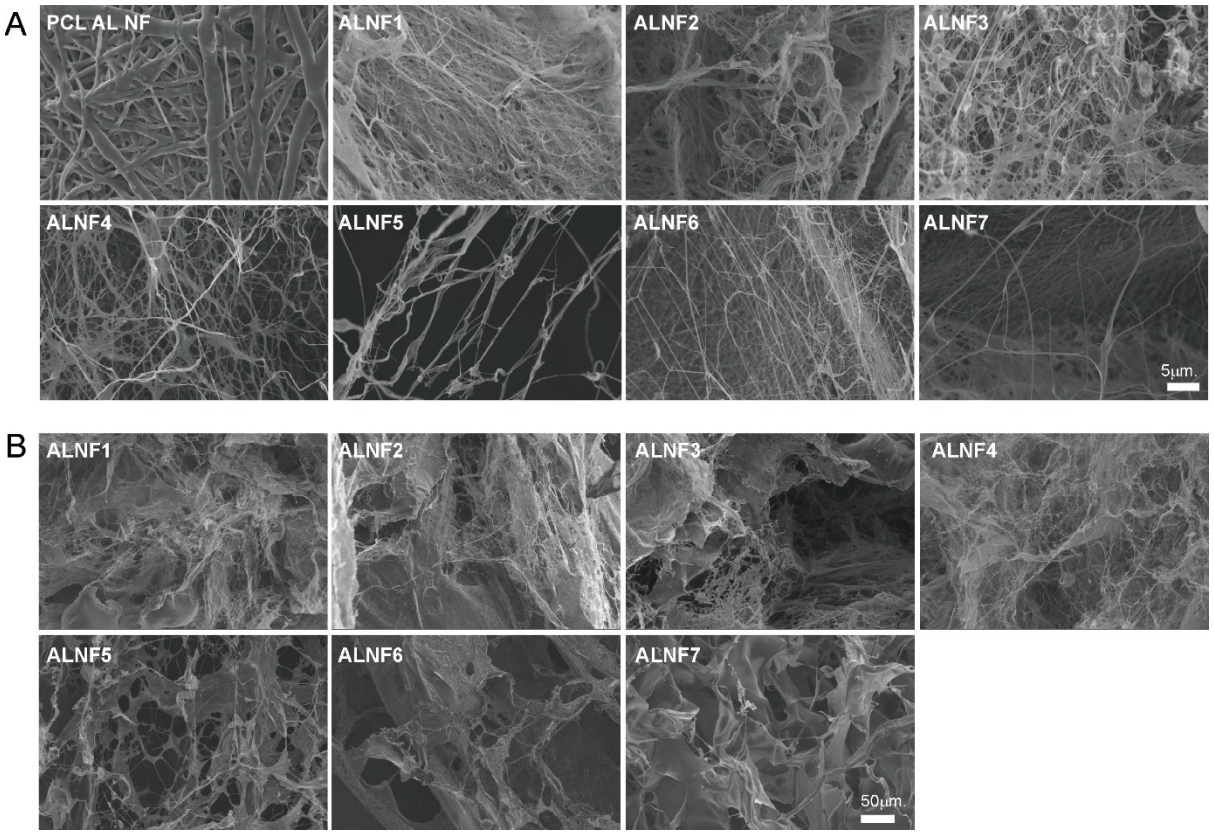

Figure S2. Morphology of freeze dried PCL/AL nanofiber and alginate nanofiber by scanning electron microscope with (A) high and (B) low magnification.

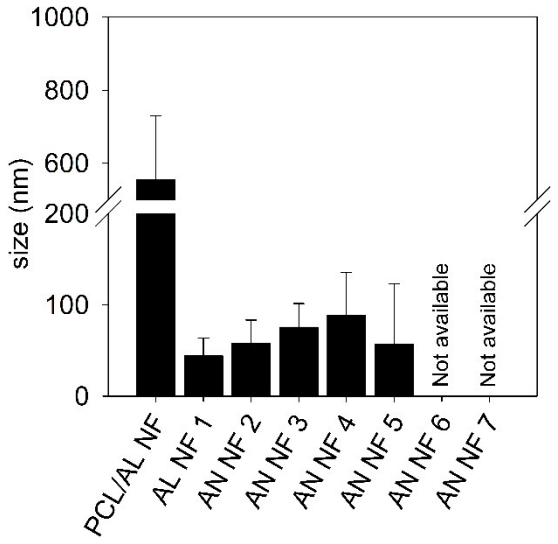

Figure S3. The average fiber diameter according to calcium concentration that 50 ~70 fiber diameter were measured in SEM image.

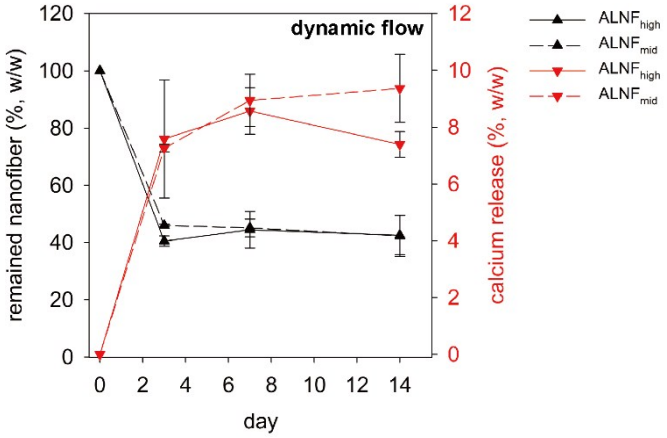

Figure S4. Remaining weight of nanofiber and calcium release profile in phosphate buffer saline with 200rpm shaking at 37°C.

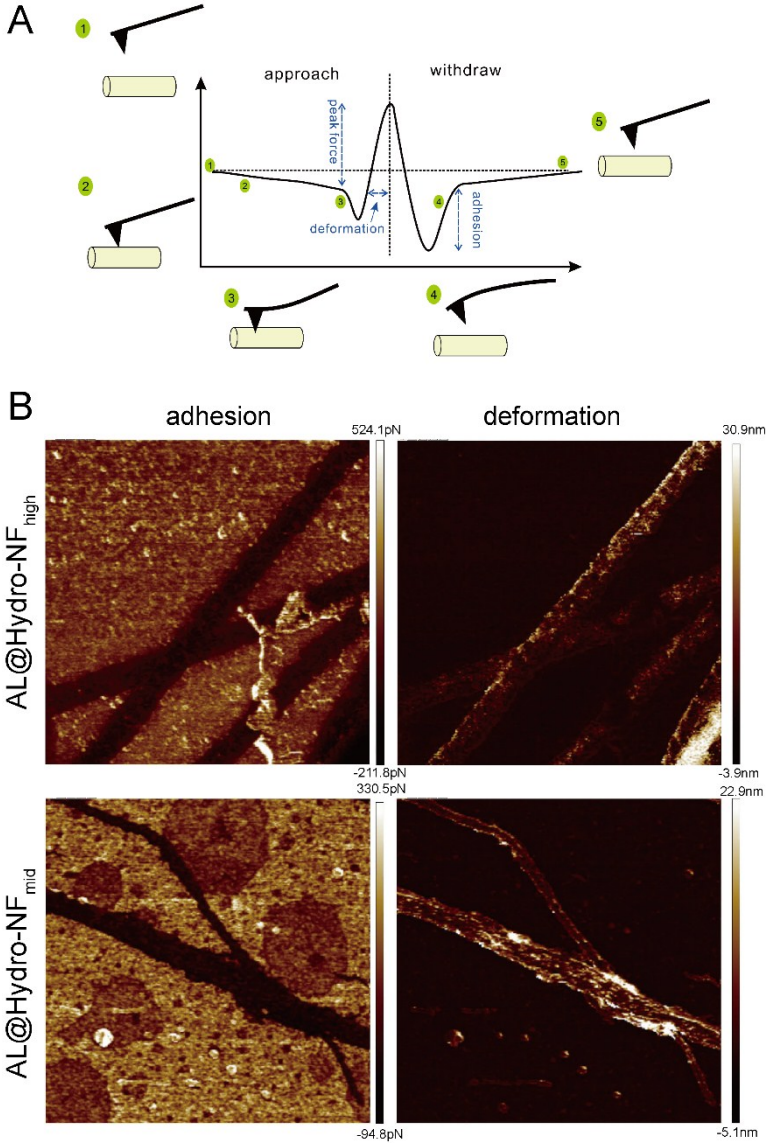

Figure S5. Scheme of nanoindentation process by PF-QNM mode and the profiles obtained at each of steps.