

Functionalization of Unzipped Carbon Nanotube via in situ Polymerization for Mechanical Reinforcement of Polymer

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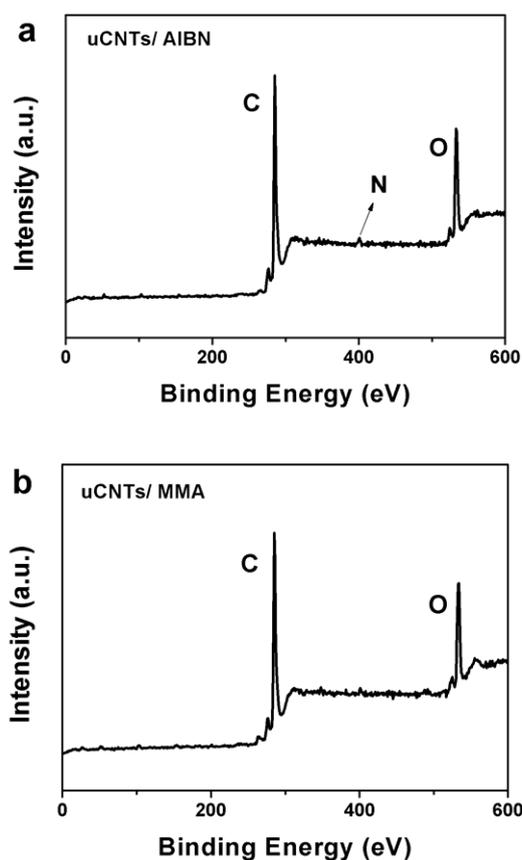


Figure S1. XPS spectra of (a) uCNTs/AIBN and (b) uCNTs/MMA. (Samples were heated in DMF for 24 h)

Table S1. Elemental composition of uCNTs and uCNTs based samples.

	uCNTs	t-uCNTs	uCNTs-P	uCNTs/AIBN	uCNTs/MMA
C (%)	74.50	81.49	74.88	80.72	81.29
O (%)	25.50	18.51	24.47	17.48	18.71
N (%)	0	0	0.65	1.80	0
C/O	2.92	4.40	3.06	4.62	4.34

Table S2. Number-average molecular weight (M_n) and polydispersity index (PDI) of free PMMA.

Sample	M_n (g/mol)	PDI
uCNT-P1	27190	1.66
uCNT-P2	41030	1.67
uCNT-P3	43680	1.74
uCNT-P4	29940	1.75