Supporting Information

for

Functionalisation of MWCNTs with poly(lauryl acrylate) polymerised by Cu(0)-mediated and RAFT methods

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Supplementary Figures

Fig. S1 $^1$H NMR spectrum of cyanomethyl dodecyltrithiocarbonate recorded in CDCl$_3$.

Fig. S2 $^1$H NMR spectrum of P[LA] synthesised via RAFT using cyanomethyl dodecyltrithiocarbonate RAFT agent.
Fig S3. $^1$H NMR spectra of P[LA] recorded in CDCl$_3$ synthesised via Cu(0)-mediated polymerisation.

Fig. S4 TGA of cyanomethyl dodecyltrithiocarbonate.
Fig. S5 TGA of lauryl acrylate.

Fig. S6 NMR of P[LA] synthesised via RAFT ($M_{n,sec} = 2.5$ kDa, $D = 1.13$) before and after thermal treatment at 200 °C under an air atmosphere as a function of time.
Fig. S7 NMR of P[LA] synthesised via Cu(0)-mediated polymerisation ($M_n, \text{SEC} = 2.1$ kDa, $D = 1.11$) before and after thermal treatment at 200 °C under an air atmosphere as a function of time.