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# **Improved rheological properties and stability of multi-walled carbon nanotubes/polymer in harsh environment**

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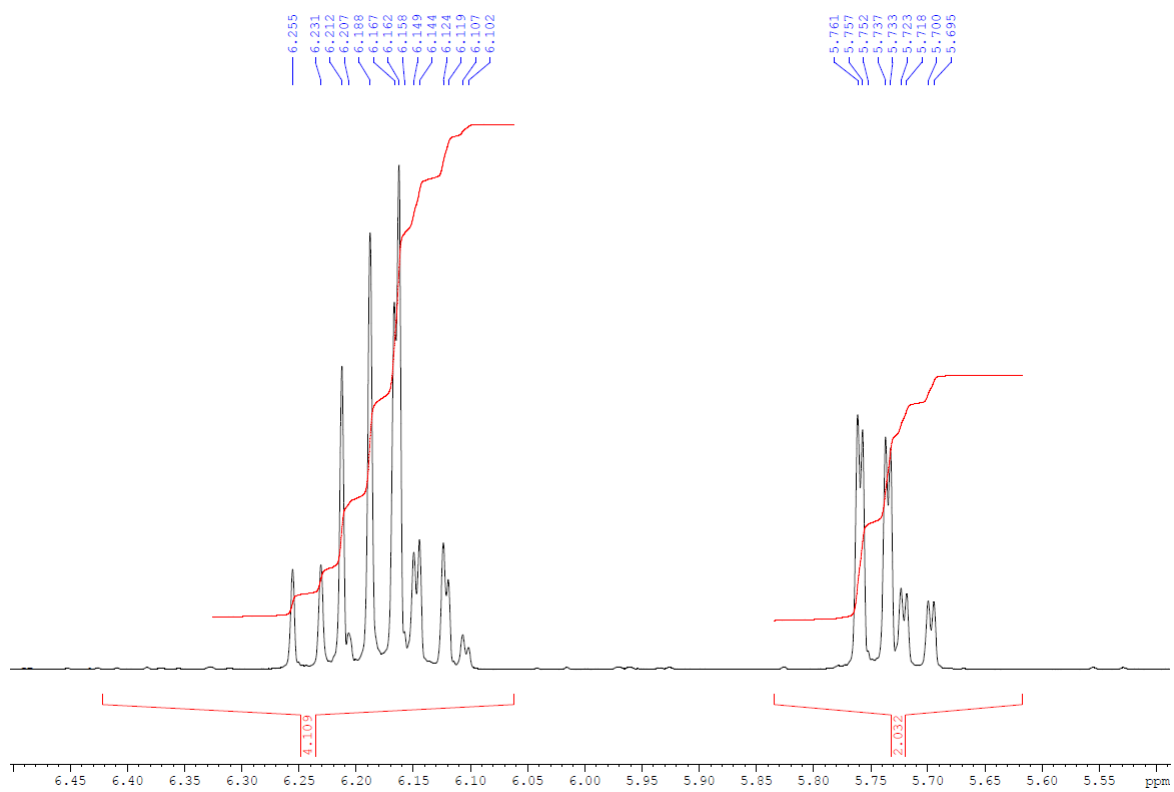
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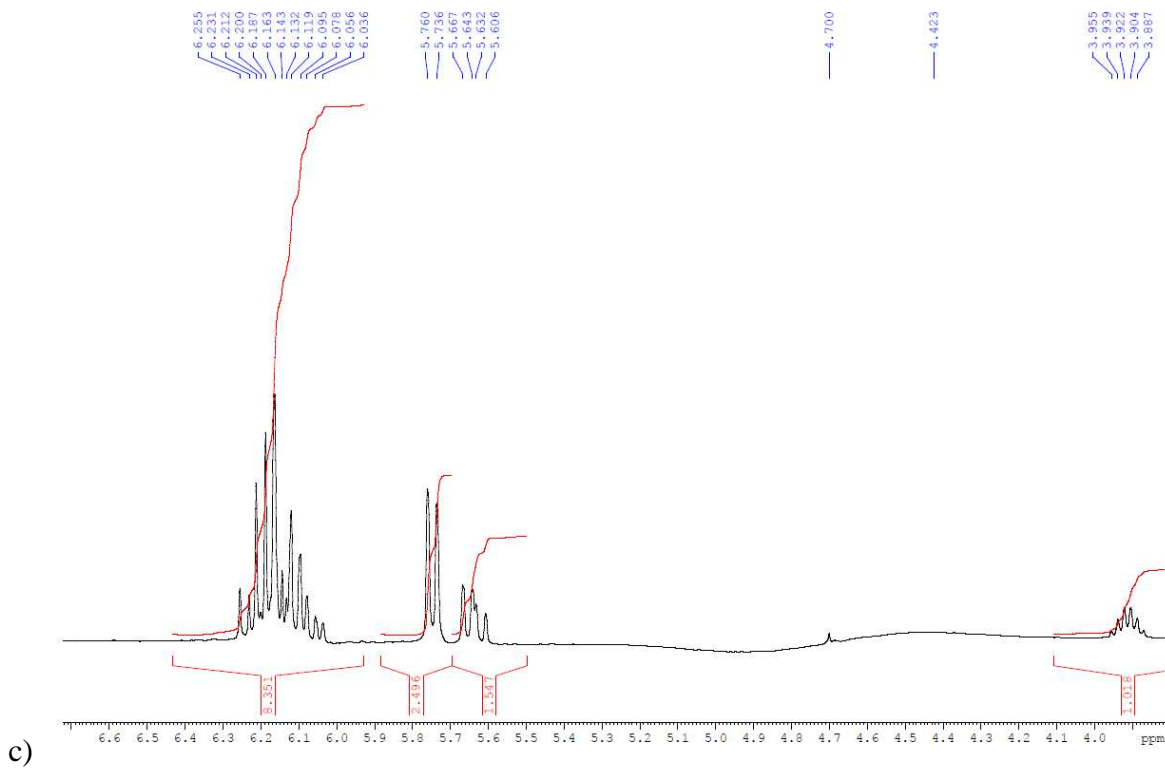
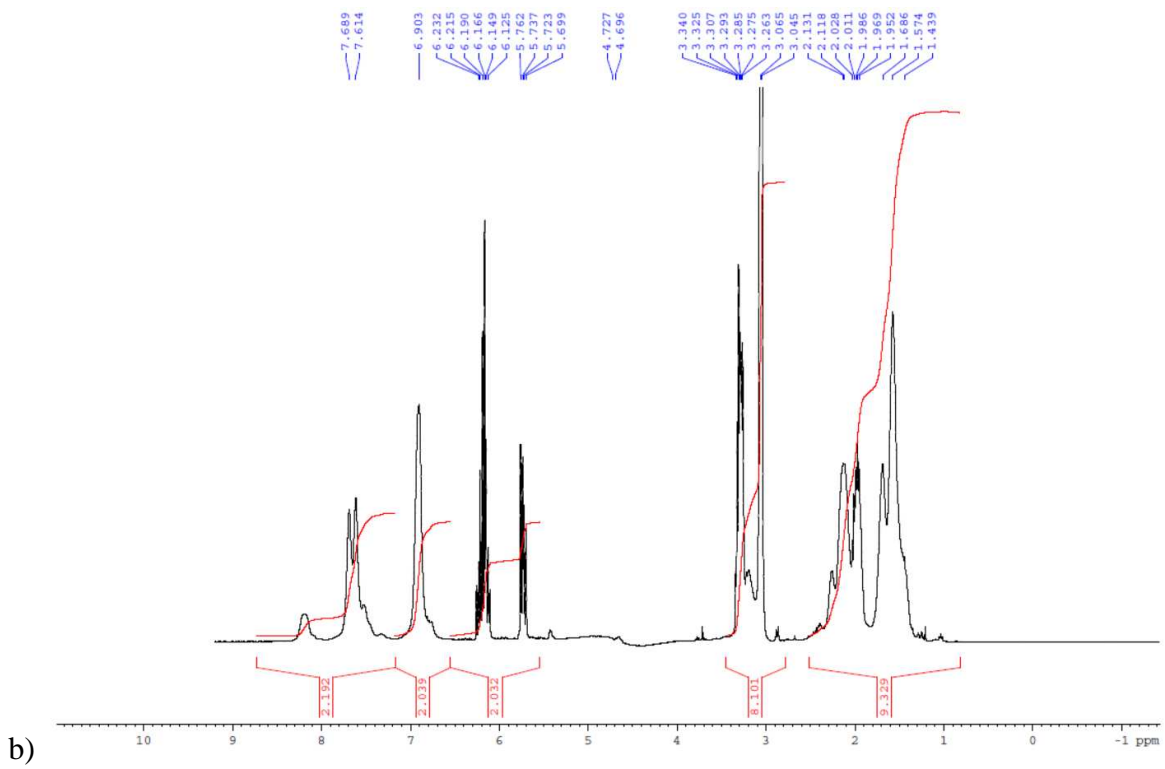
\*Corresponding author. E. Nourafkan ([e.nourafkan@leeds.ac.uk](mailto:e.nourafkan@leeds.ac.uk))

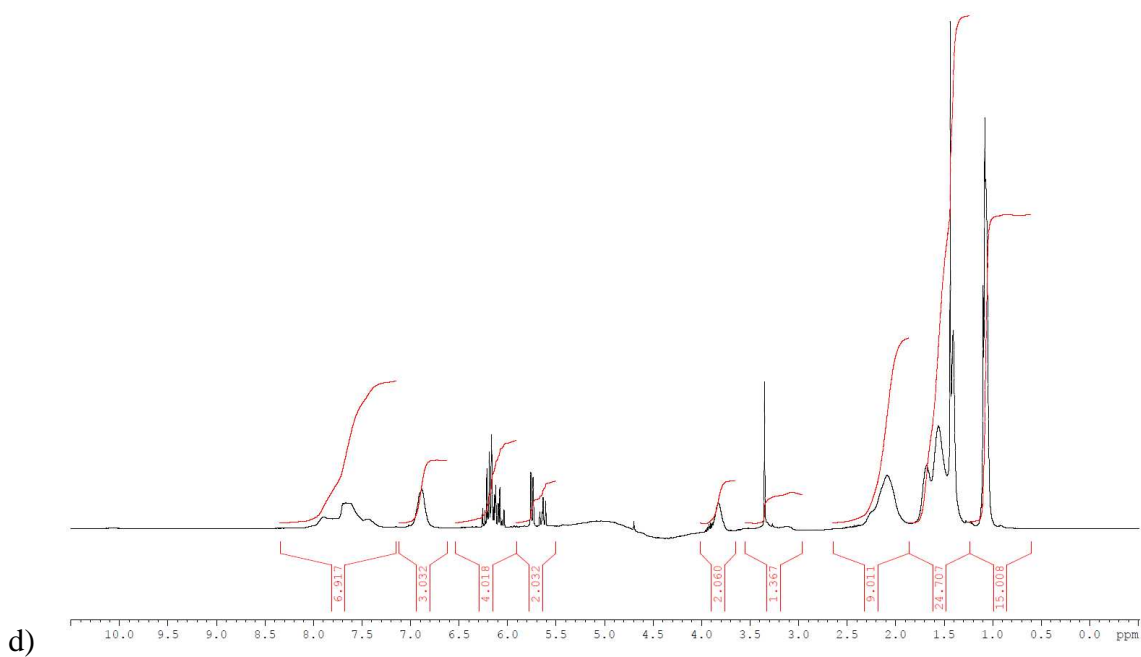


**Fig. S1.** Set-up for synthesis of co/ter polymers.

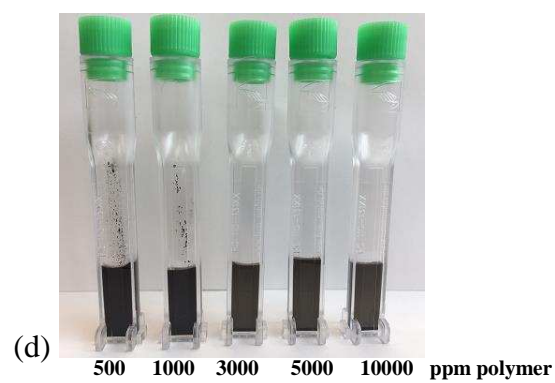
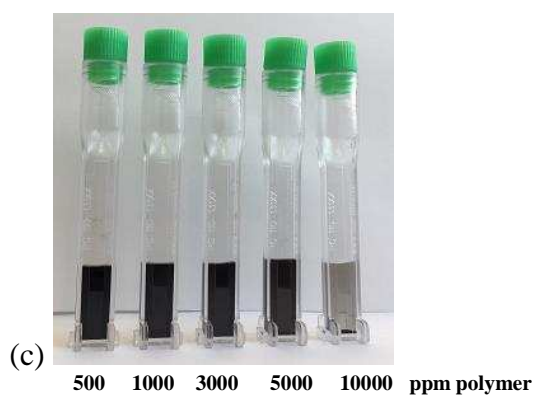
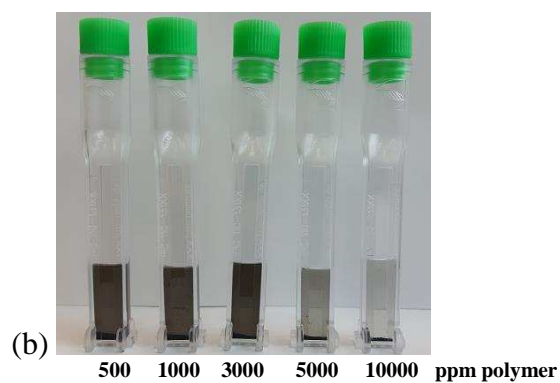
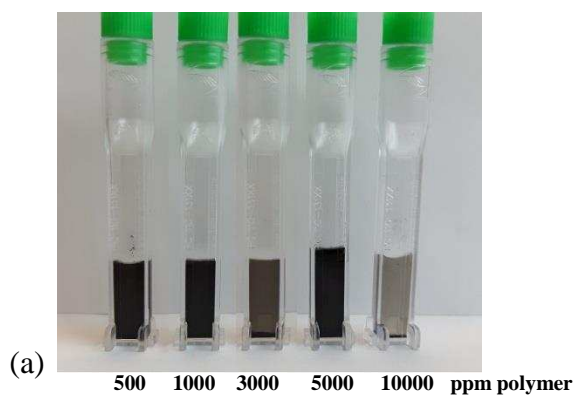
**a)**

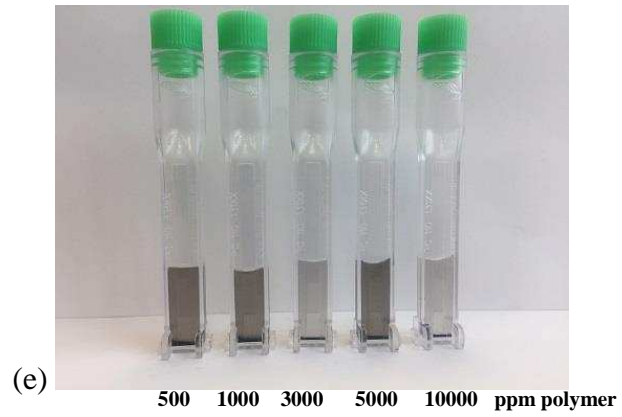






**Fig. S2.**  $^1\text{H-NMR}$  spectra of different sample 3: (a) AA-ATAC monomers blend, (b) AA-ATAC copolymer, and sample 4: (c) AA-APSA-IAA monomers blend, (d) AA-APSA-IAA terpolymer.





**Fig. S3.** (a) Test tubes containing 1000 ppm of MWCNT and different concentration of polymer at the end of centrifuge operation: (a) sample 1, (b) sample 2, (c) sample 3, (d) sample 4, (e) sample 5.