

Electronic Supplementary Information

*for*

**Selective carboxylation *versus* layer-by-layer unsheathing of multi-walled carbon nanotubes:  
new insights from the reaction with boiling nitrating mixture**

by

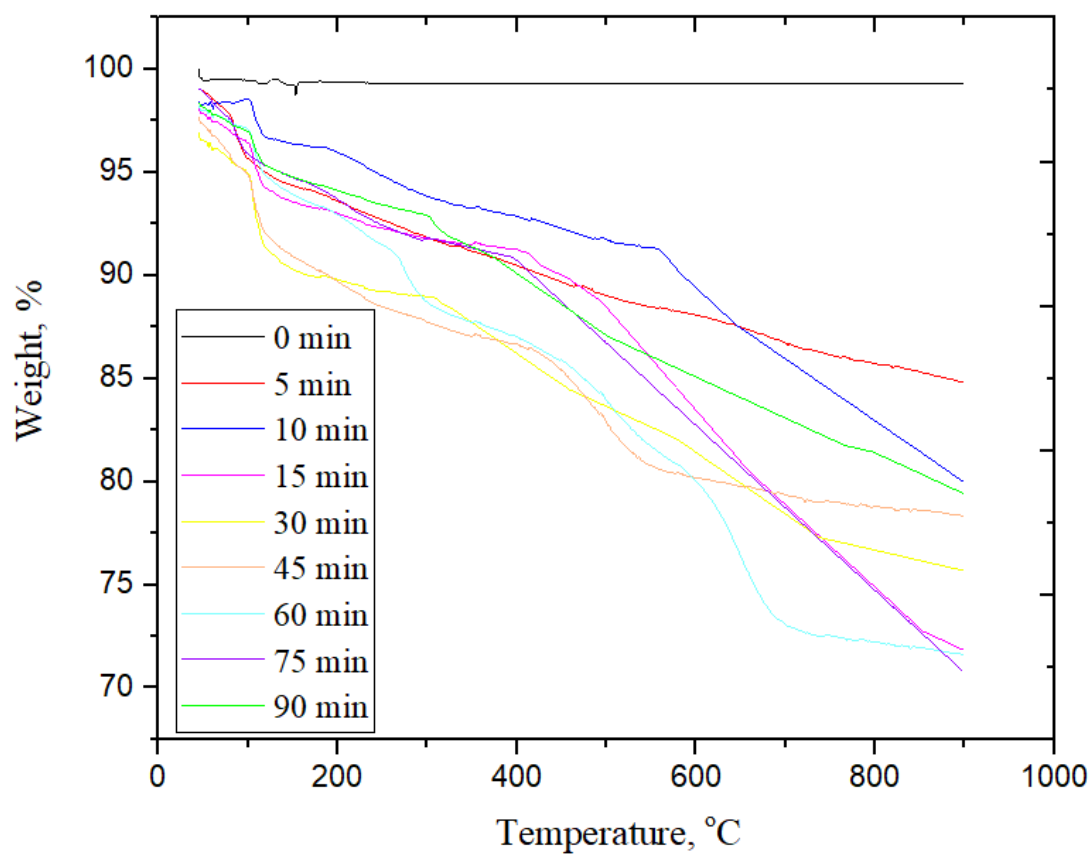
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**Table S1** Correlation between functionalization degrees determined by TGA and Boehm titration

Time, min	COOH concentration, mmol/g	
	TGA	Boehm titration
5	1.8	1.4
10	3.2	2.8
15	4.7	4.0
30	3.1	2.7
45	2.2	1.9
60	3.9	3.4
75	4.9	4.2
90	3.0	2.7



**Fig. S1** Collective TGA curves for MWCNTs and products of their oxidation (O-MWCNTs) – all curves were presented separately in **Fig. S2**

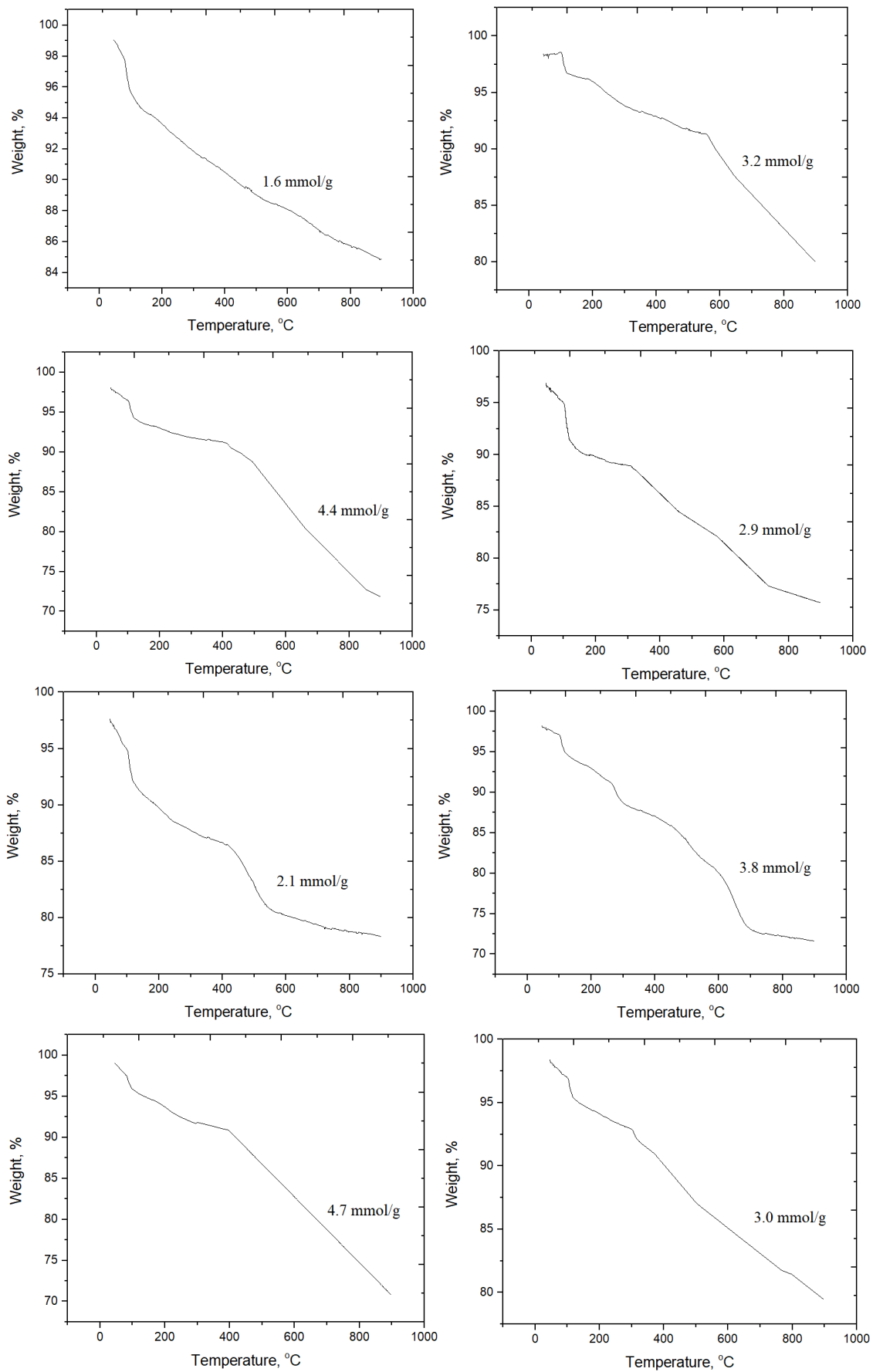
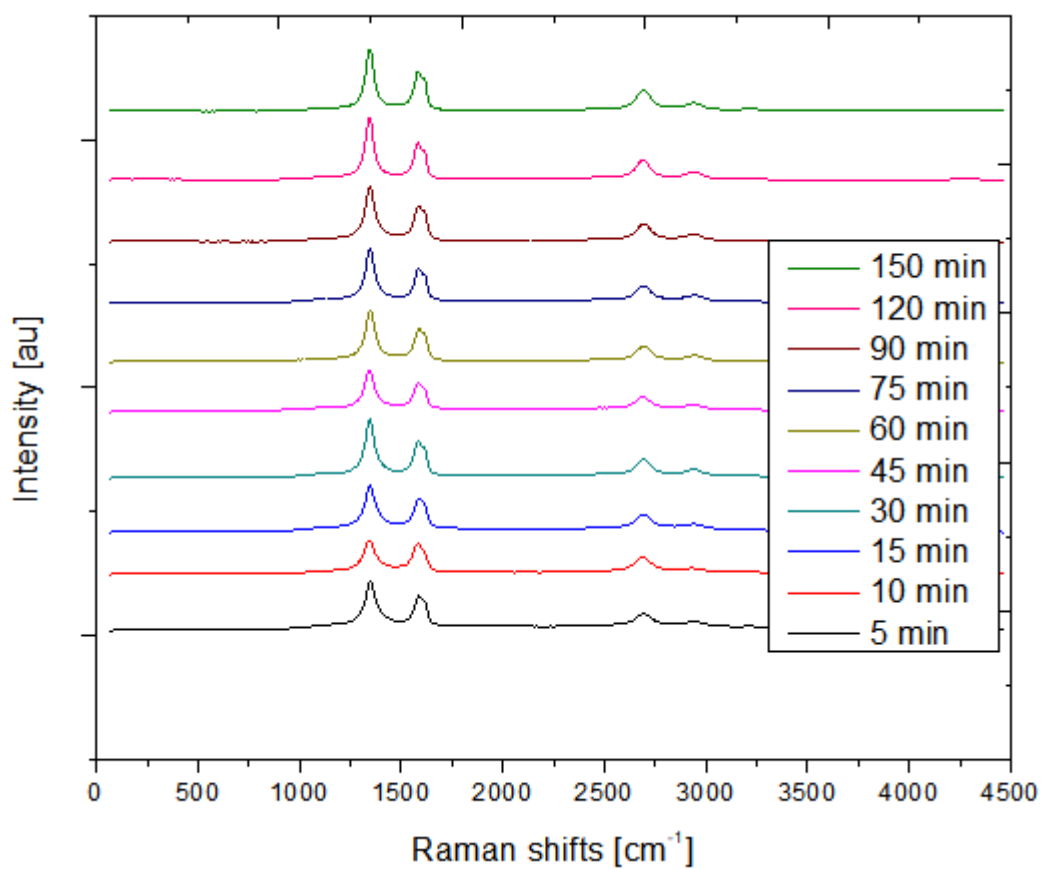


Fig. S2 TGA curves for all O-MWCNTs products: t=0, 5, 10, 15, 30, 45, 60, 75 and 90 min



**Fig. S3** Raman spectra of all O-MWCNTs as the source data for preparation of **Fig. 3C**