

S2: Table showing G and D band positions, I_G/I_D and FWHM-D of Pristine and functionalized SWCNTs.

Sample	T_F (h)	G band position (cm⁻¹)	D band position (cm⁻¹)	I_G/ I_D	FWHM-D (cm⁻¹)
P	0	1557	1322	37.68	47
F ₁	0.02	1546	1318	37.23	61
F ₂	0.5	1542	1322	34.25	45
F ₃	1	1543	1328	24.2	60
F ₄	2	1549	1322	26.49	81
F ₅	3	1548	1328	11.51	90
F ₆	4	1585	1345	1.83	101
F ₇	5	1593	1345	1.21	98
F ₈	6	1591	1345	1.22	99
F ₉	12	1578	1343	1.76	92
F ₁₀	24	1574	1336	1.14	67