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Supporting Information

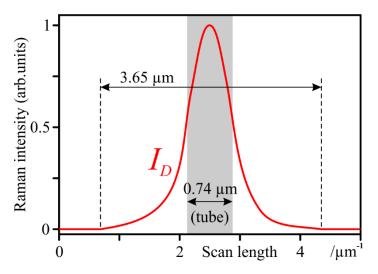


Figure S1 - Beam spot diameter determination: A Raman scan of an amorphous carbon fiber from ¹ with 0.175 mW. The known tube diameter (0.74 μ m) was subtracted from the length of the monitored increment and decay in I_G. The resulting beam spot diameter is 2.91 μ m.

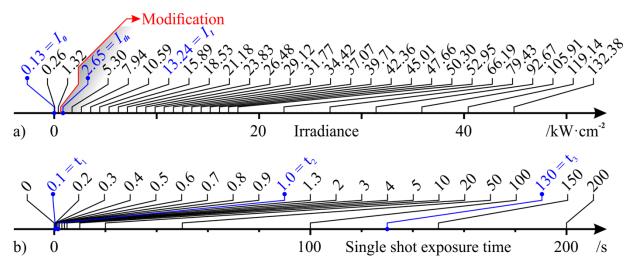


Figure S2 - Laser irradiance (a) and exposure time sweeps (b) – Different intervals adapt to the rate of change of the Raman signal. Values I_0 , I_{th} , I_1 and t_{1-3} are reference values for observed singularities.

1 M. Golshadi, J. Maita, D. Lanza, M. Zeiger and M. G. Schrlau, *Carbon N. Y.*, 2014, **80**, 28–39.