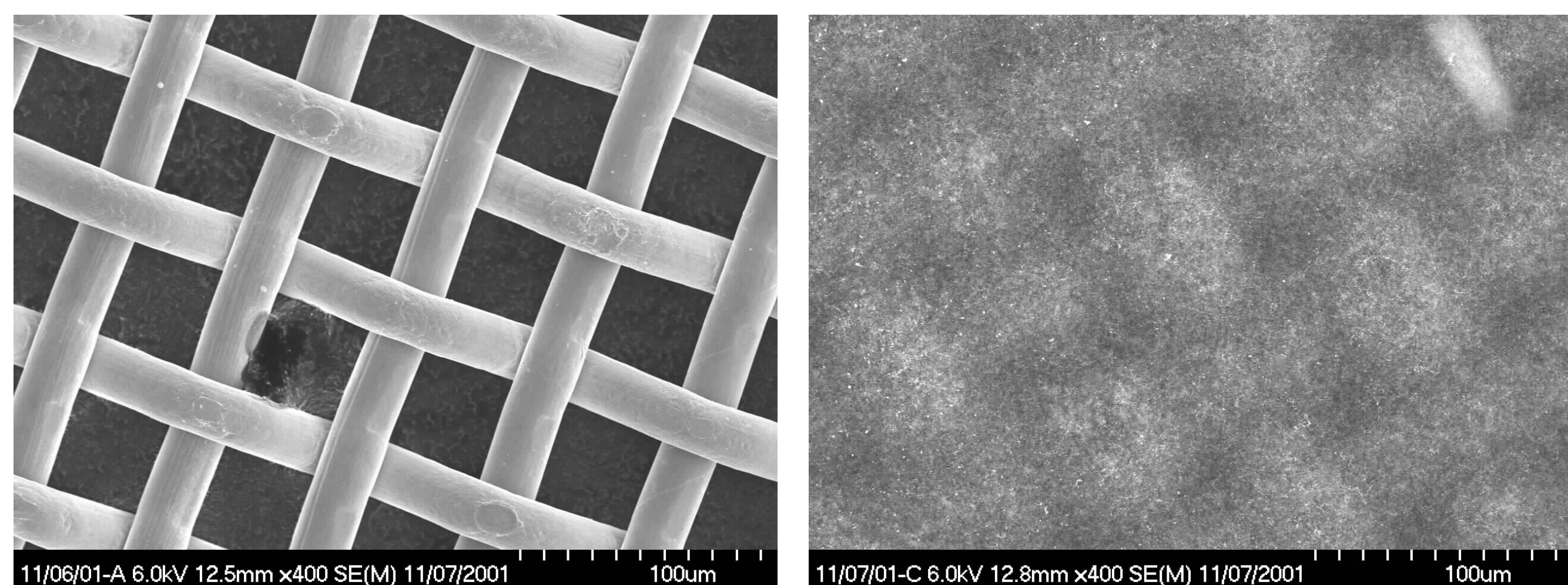
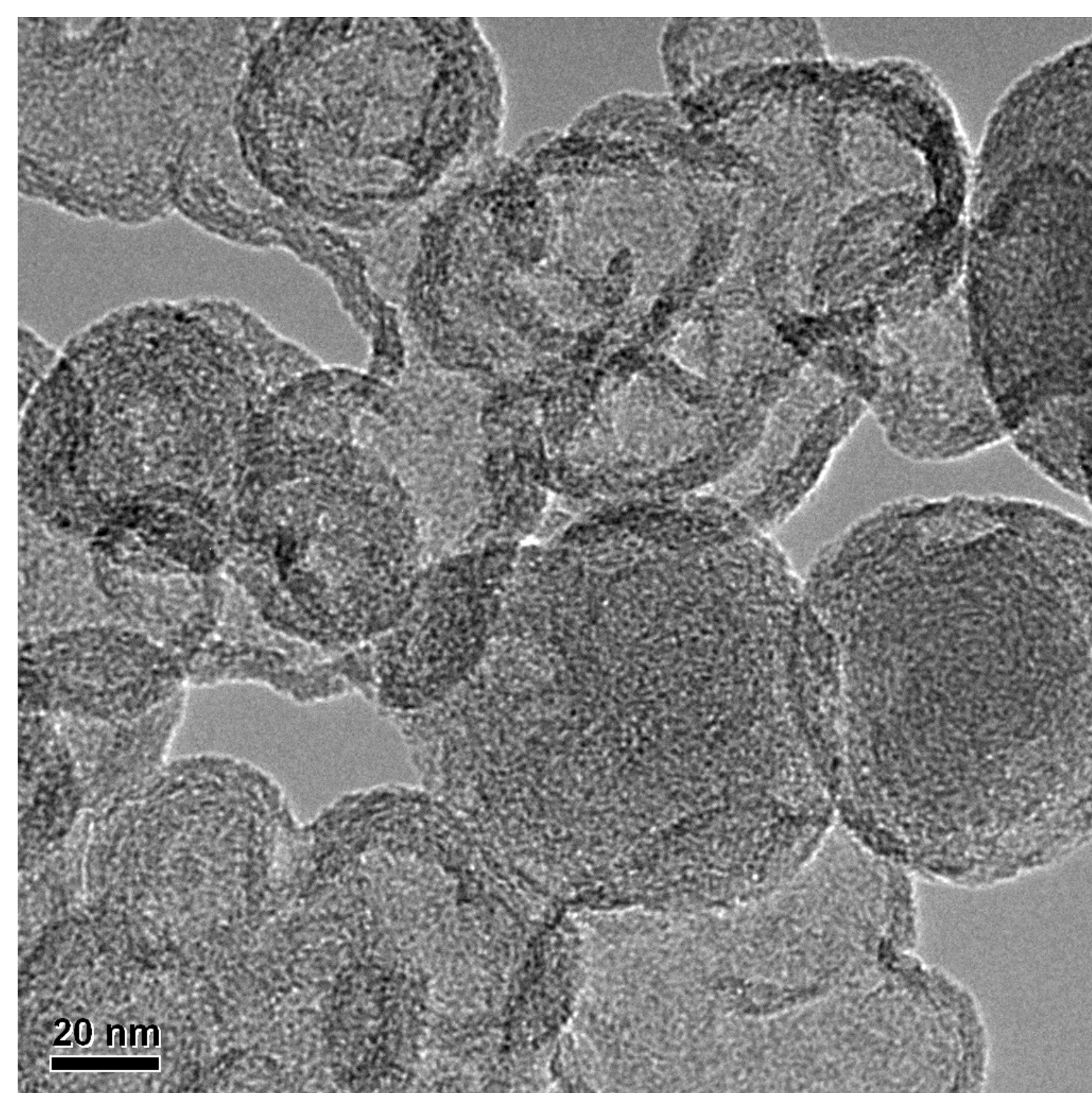


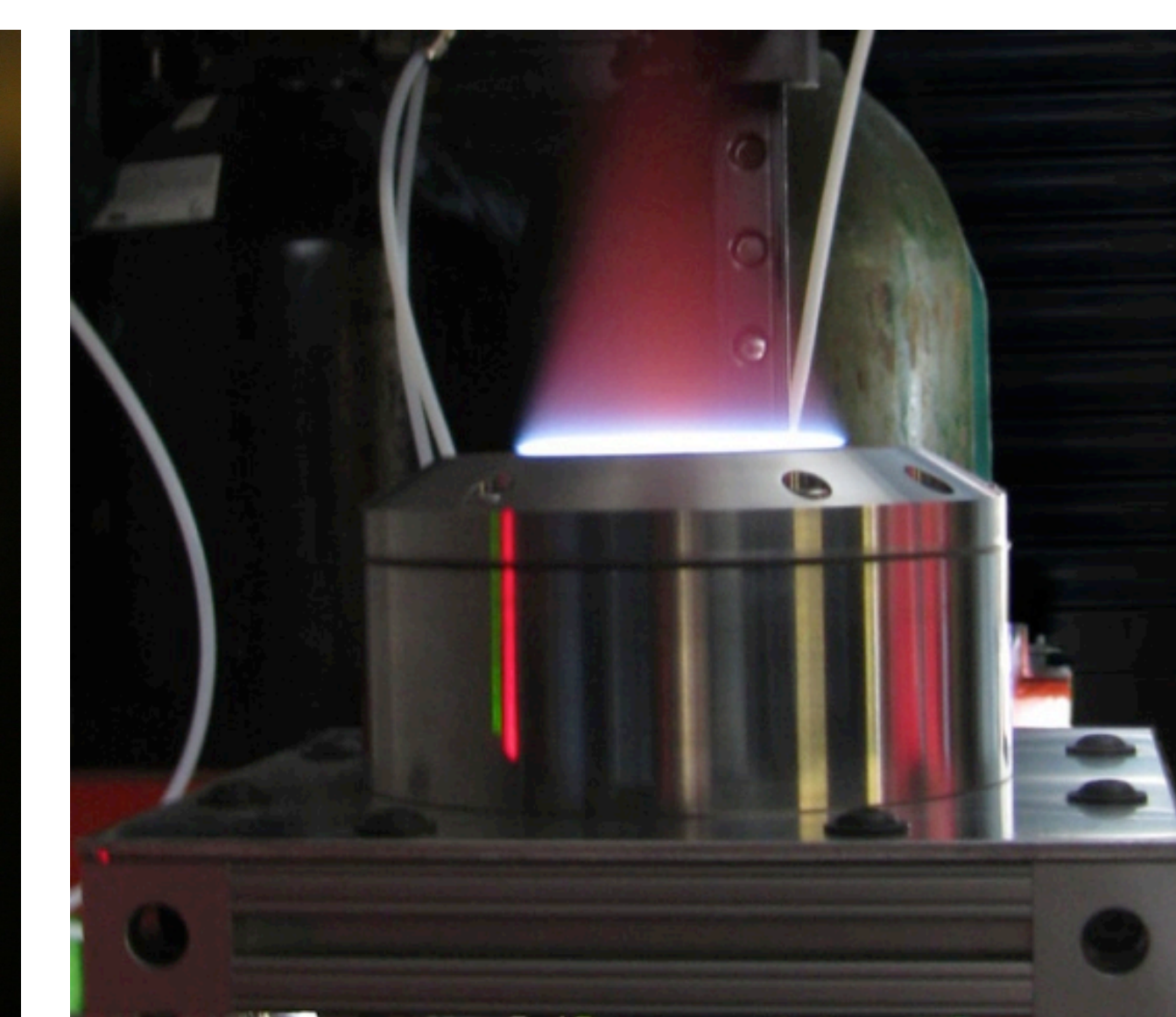
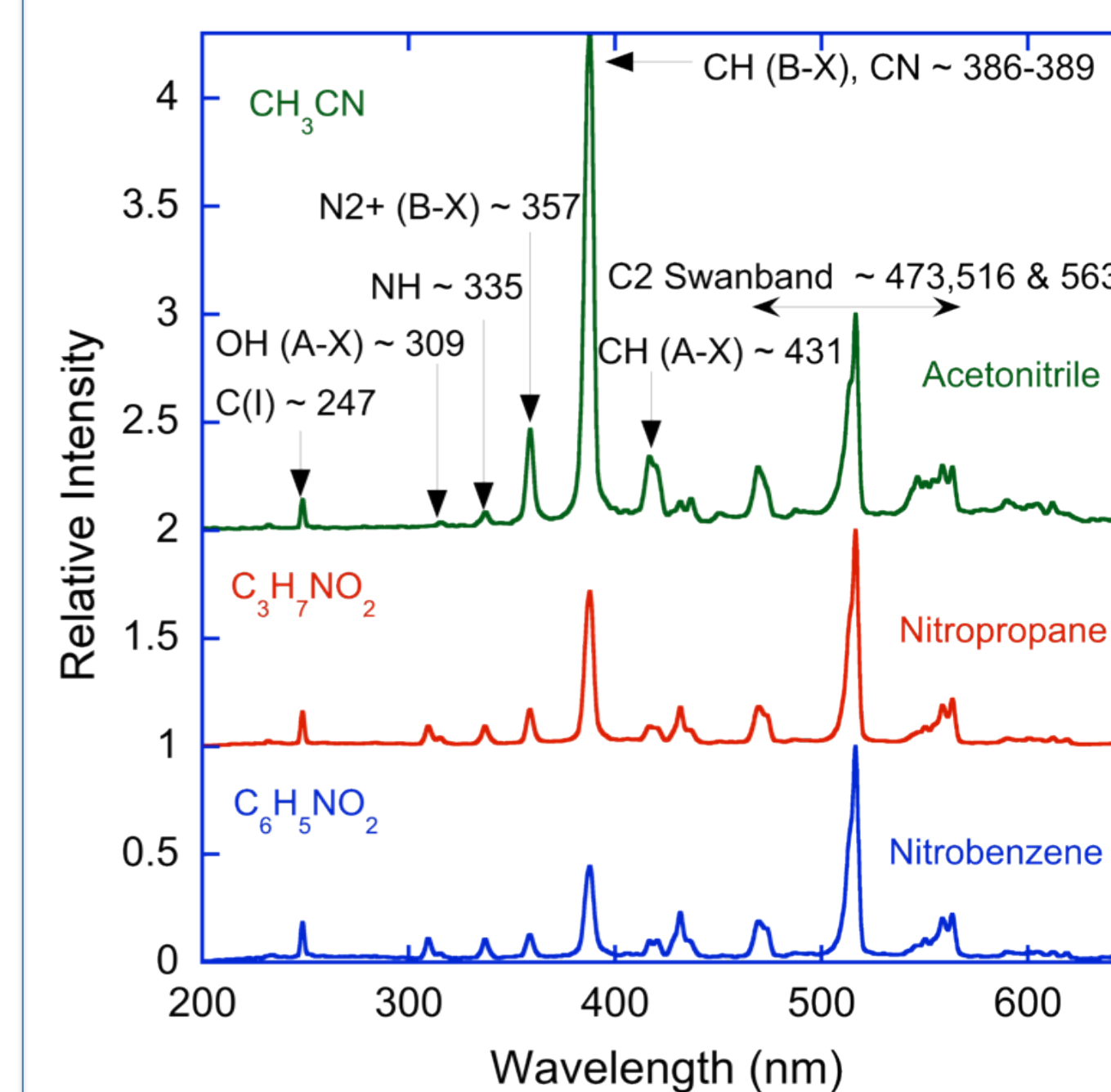
RVW Group Research Highlights



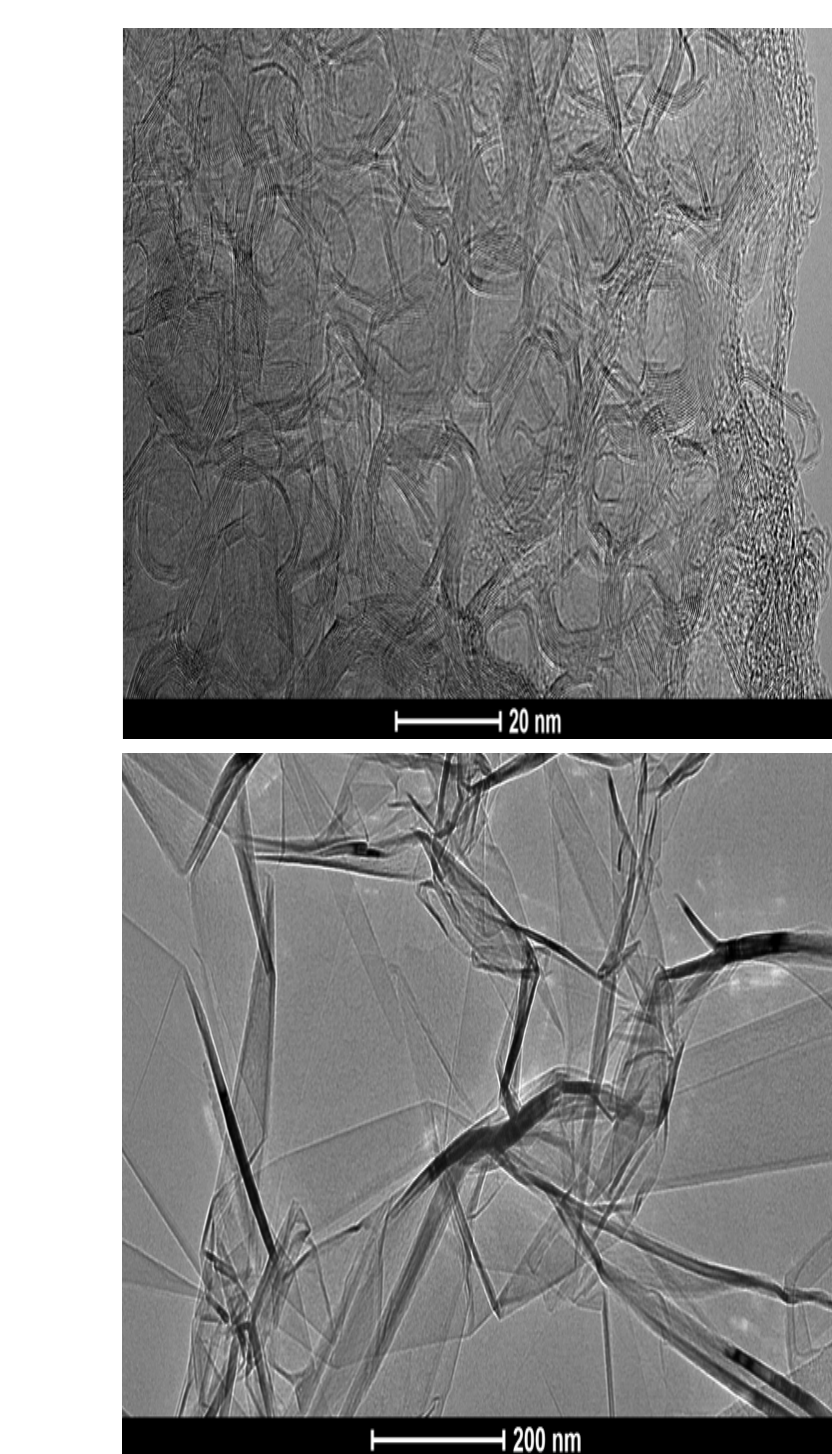
Flame Formed Carbons



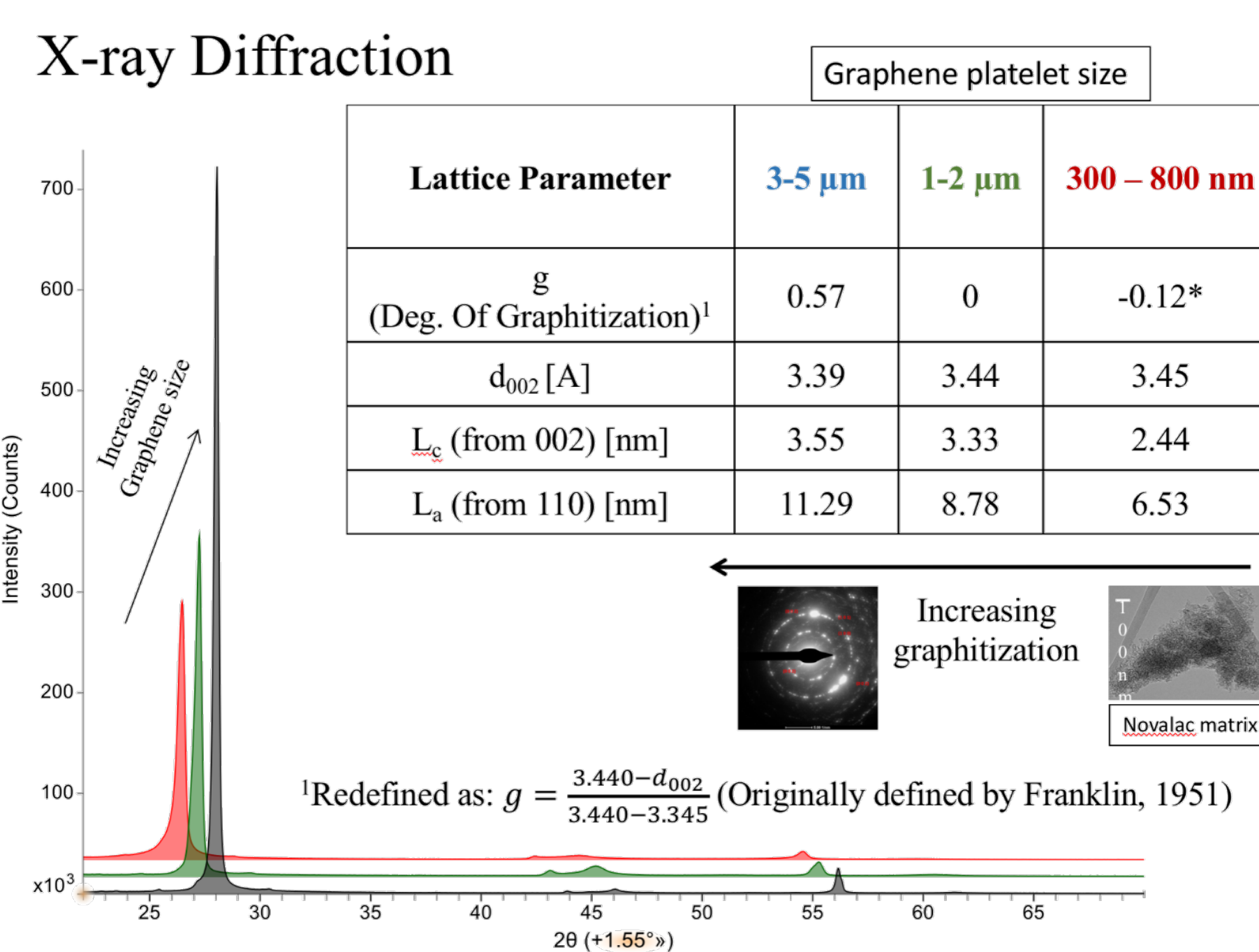
Oxidation Studies



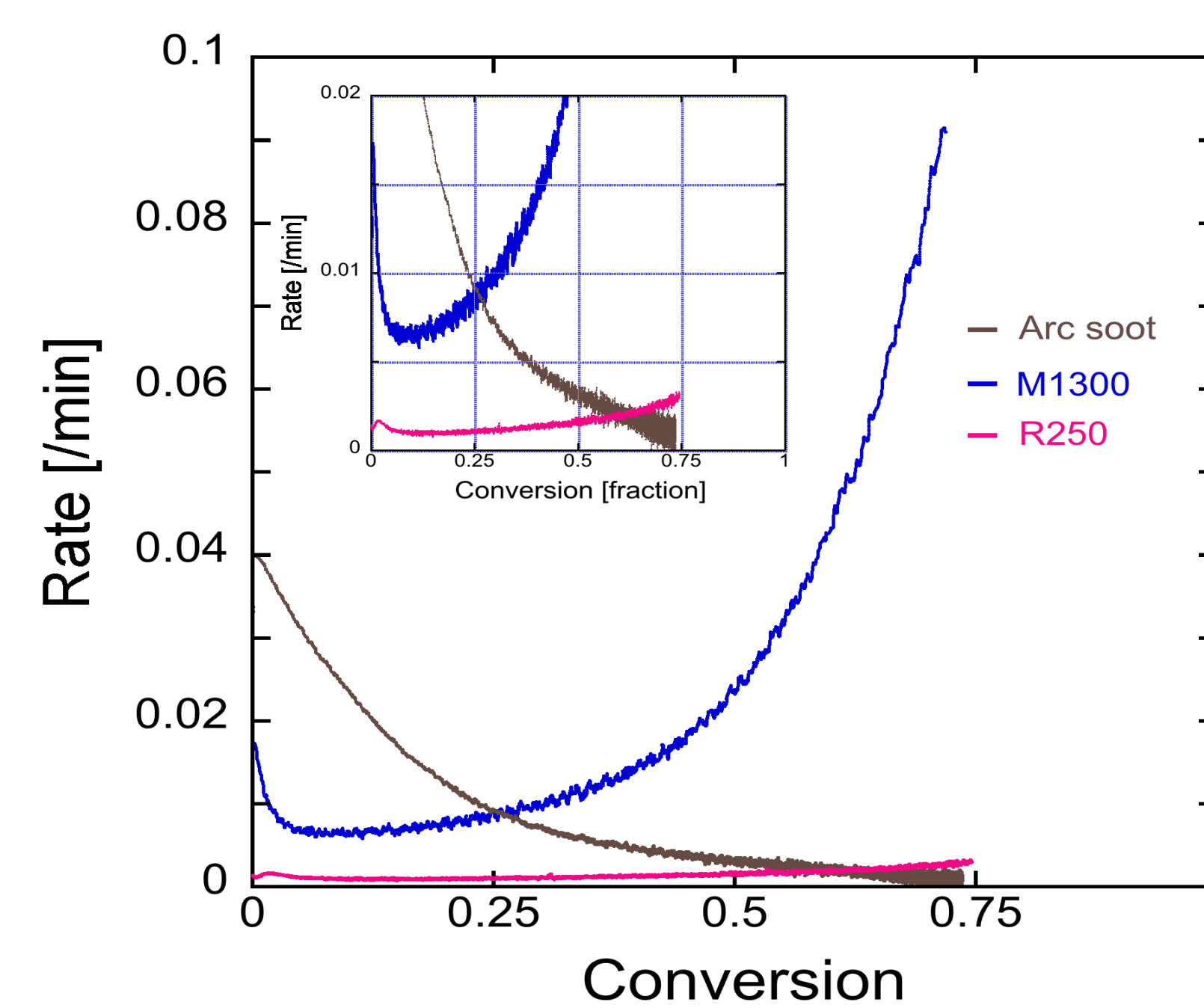
Plasma & Combustion Spectroscopic Diagnostics



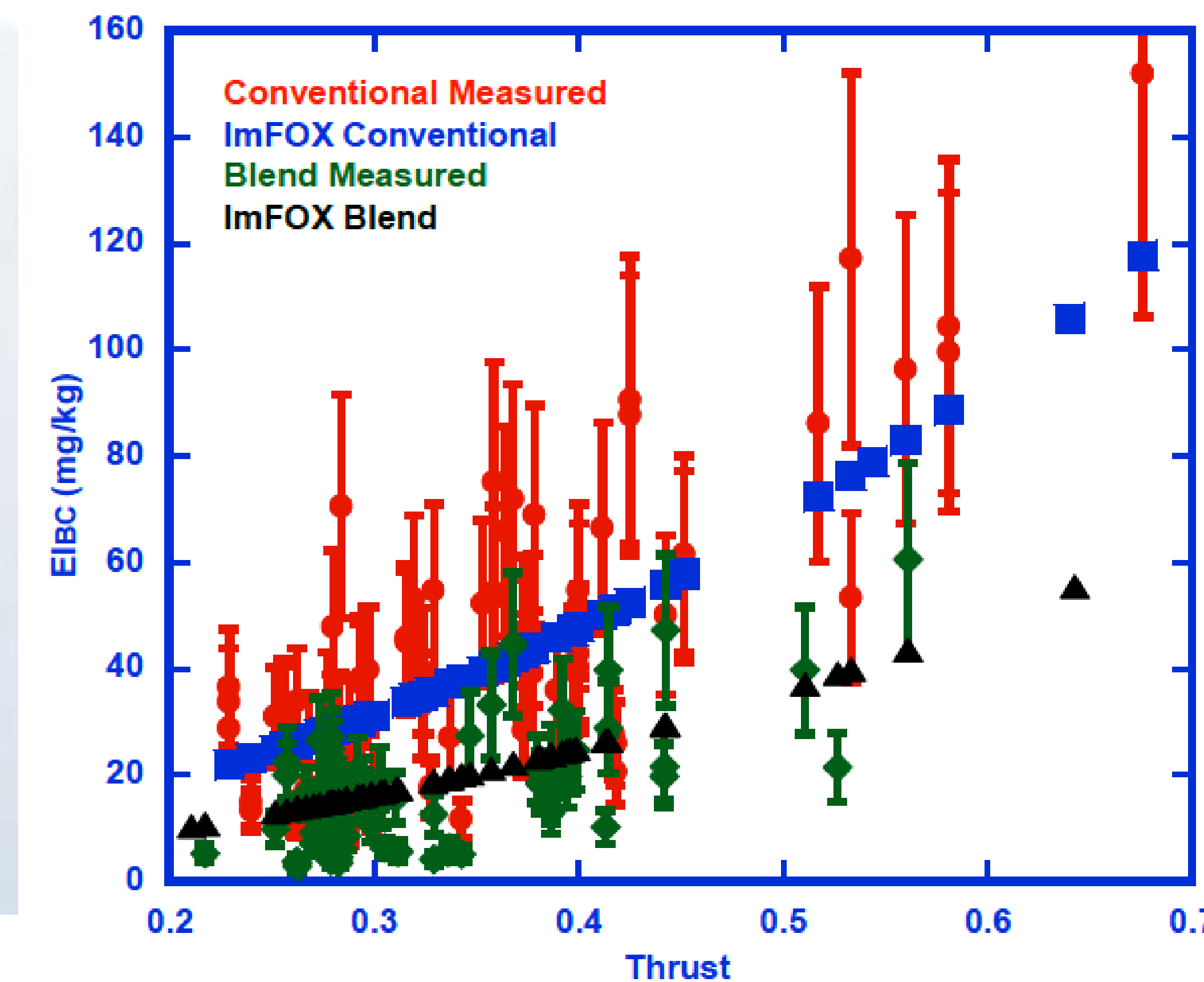
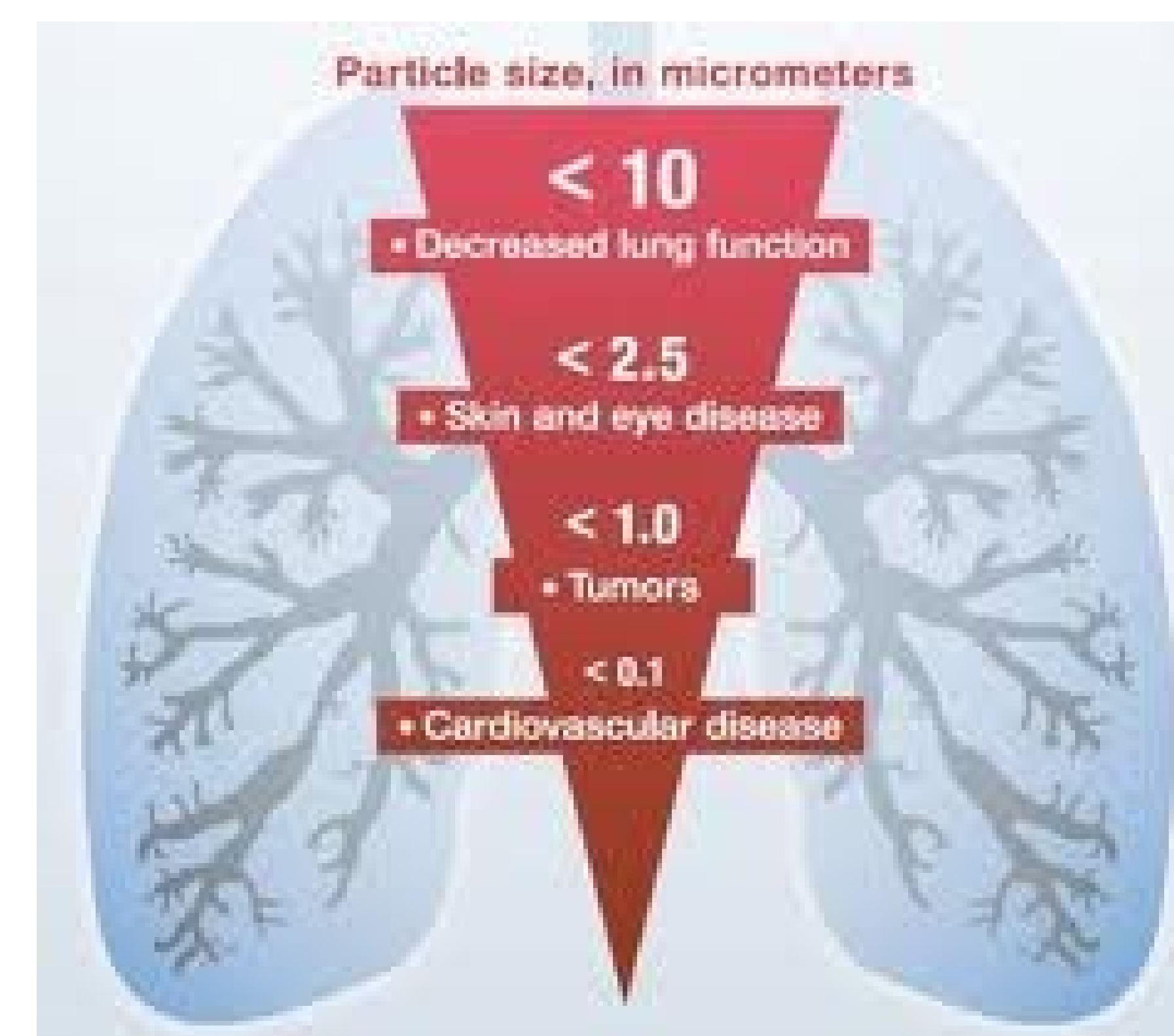
Carbon-carbon
Composites



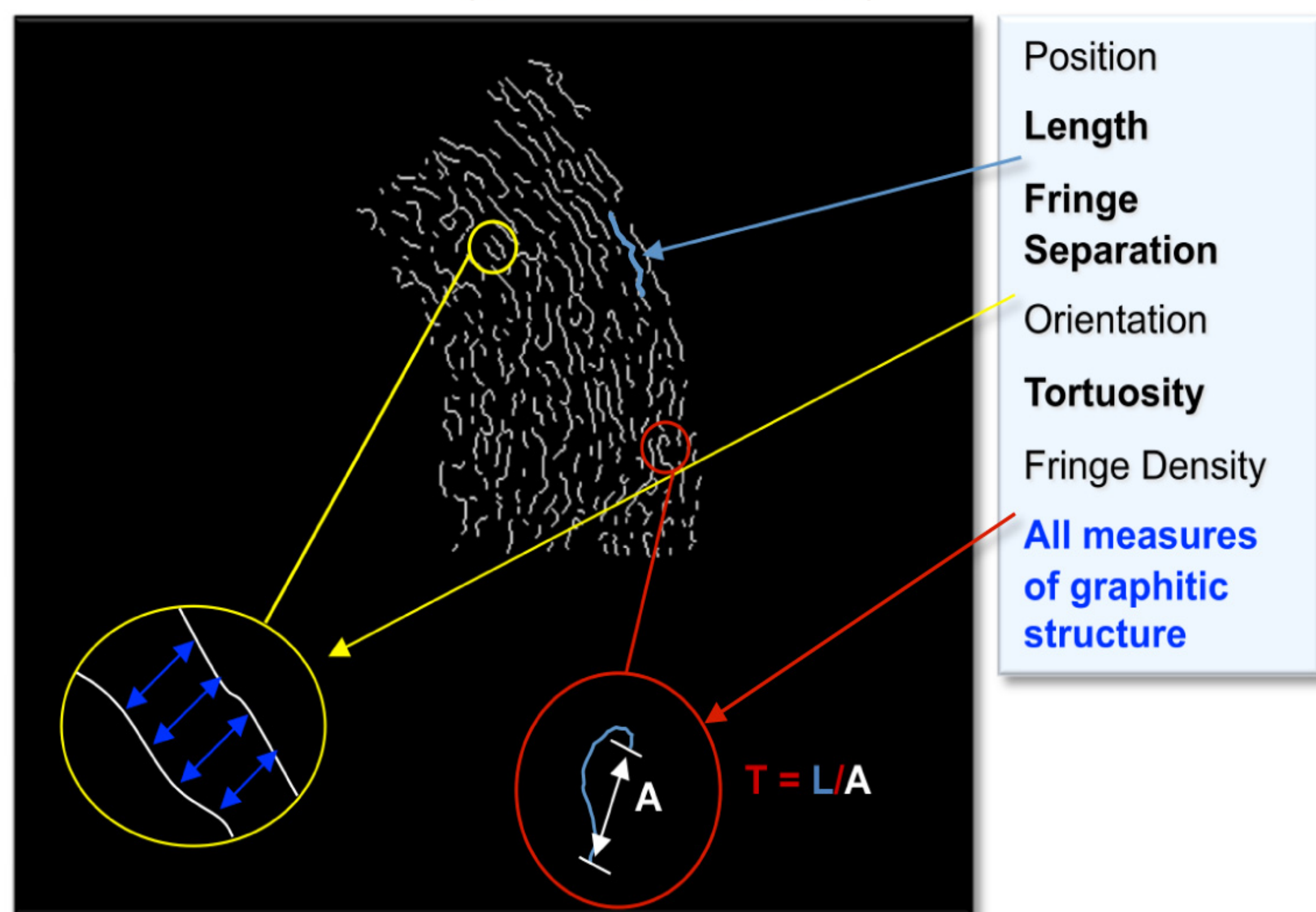
Carbon
Graphitization



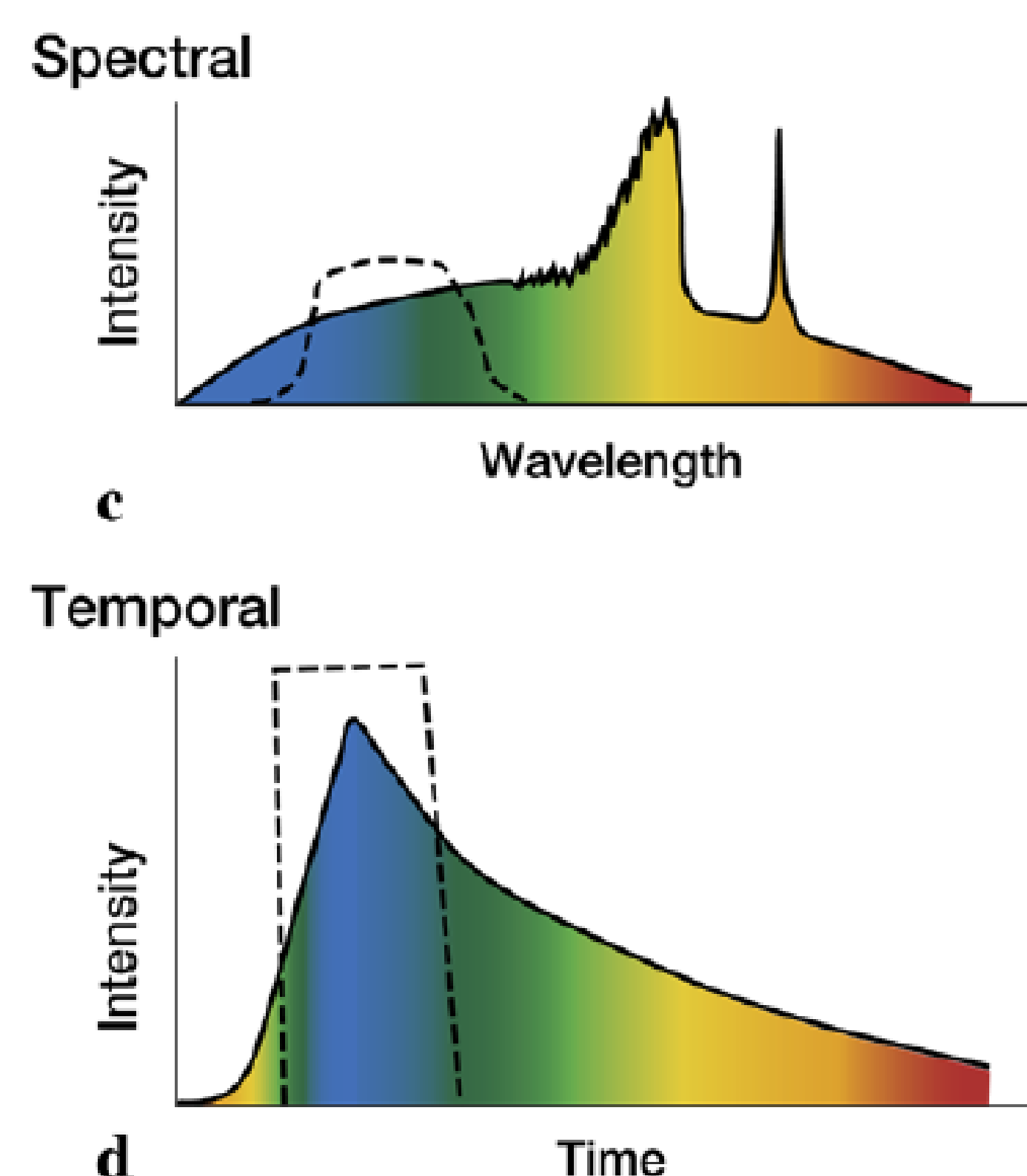
NanoStructure –
Reactivity in Oxidation



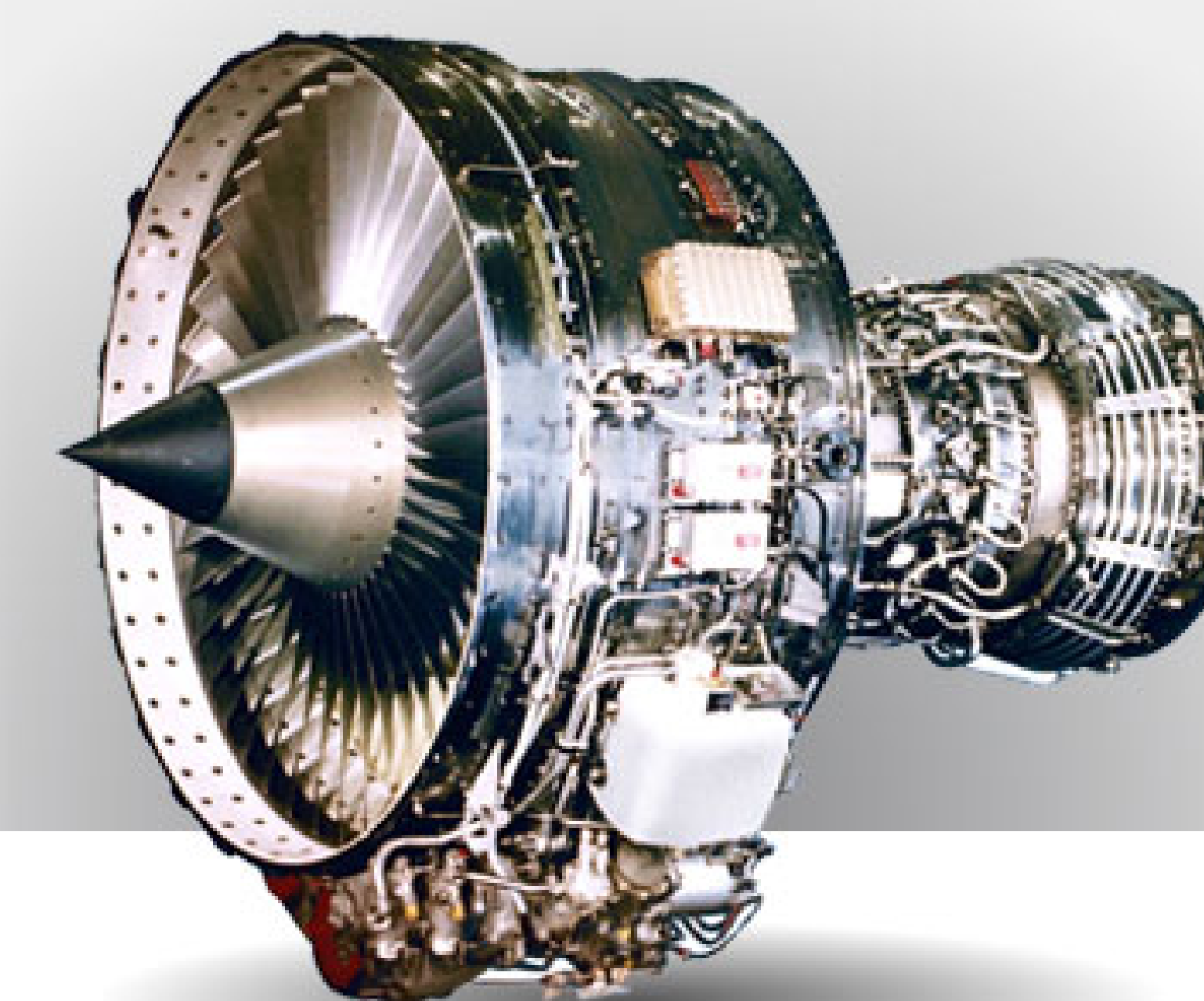
Statistical Properties Extracted From HRTEM Images
(of soot nanostructure)



Analysis algorithms
Validated by Raman measurements: $L_a \sim (I_D/I_G)$
Validated by XRD (L_c)



Laser-induced
Incandescence (LII)



$$C_{BC} \left[\frac{mg}{m^3} \right] = \dot{m}_f \times e^{(13.6-H)} (A_{form} \times e^{(-6390/T_4)} - A_{ox} \times AFR \times e^{(-19778/T_4)})$$

nvPM Prediction Tools