

Electronic supplementary information

Pollutant soot of diesel engine exhaust transformed to carbon dots for multicoloured imaging of *E-coli* and sensing cholesterol

Kumud Malika Tripathi^a, Amit Kumar Sonker^b, Sumit Kumar Sonkar^{*c} and Sabyasachi Sarkar^{*d}

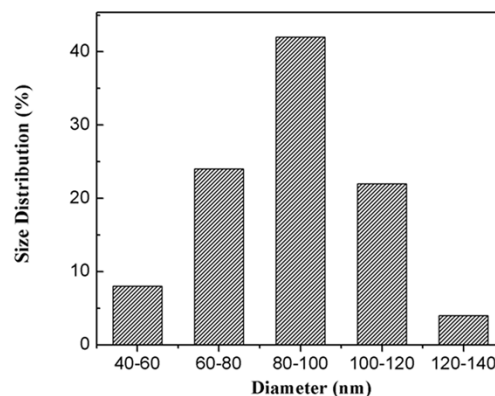
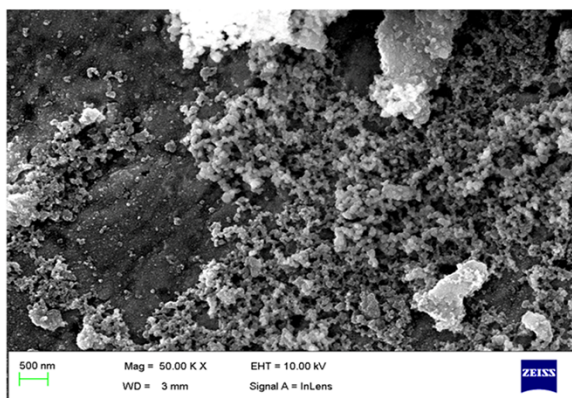
^a Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur-208016, India.

^b Department of Materials Science & Engineering, Indian Institute of Technology Kanpur, Kanpur-208016, India.

^c Department of Chemistry, Malaviya National Institute of Technology, Jaipur, Jaipur-302017, India, E-mail: sksonkar.chy@mnit.ac.in

^d Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah-711103, India, E-mail: abya@iitk.ac.in

(a) Before oxidative treatment



(b) After oxidative treatment

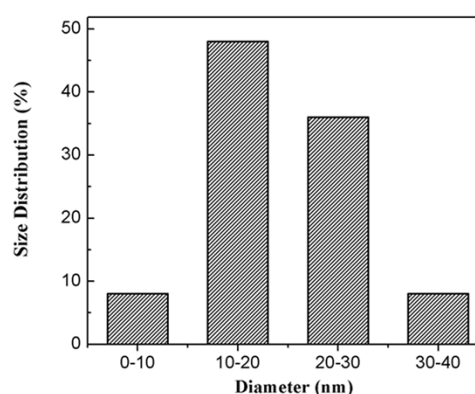
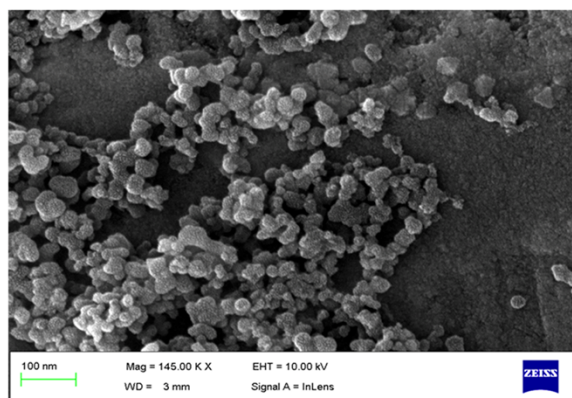


Fig. S1- FESEM image of (a) untreated soot (before oxidative treatment); (b) after oxidative treatment, along with their corresponding size distribution histograms of CDs.