Supporting Information

Advanced carbon dots via plasma induced surface functionalization for fluorescent and bio-medical applications

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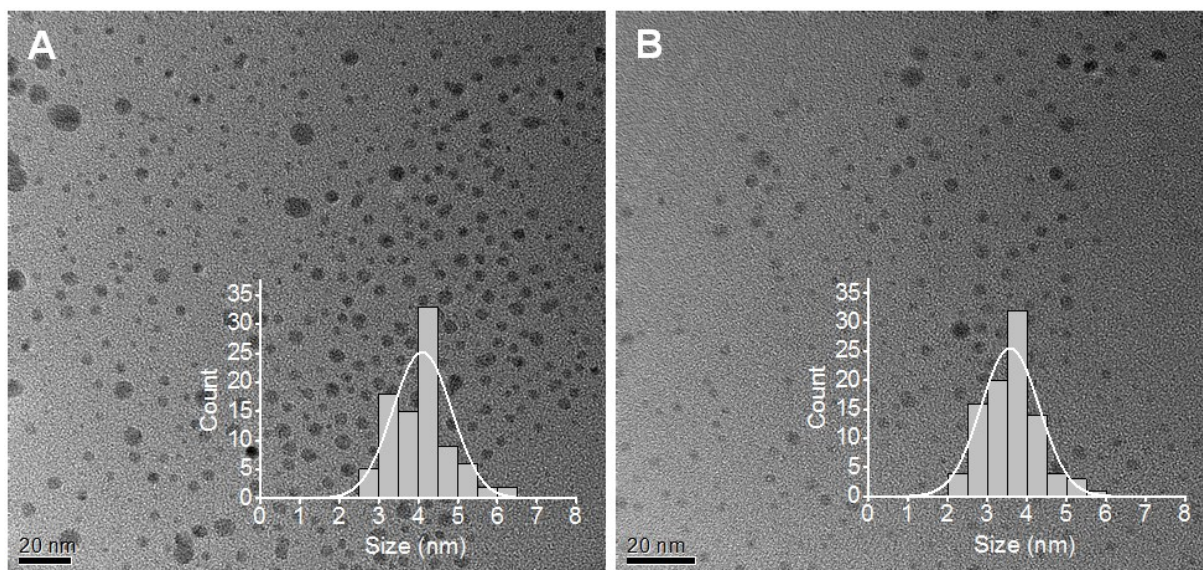
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Figure S1. TEM images and size distribution of (A) C-paints and (B) AC-paints-N.

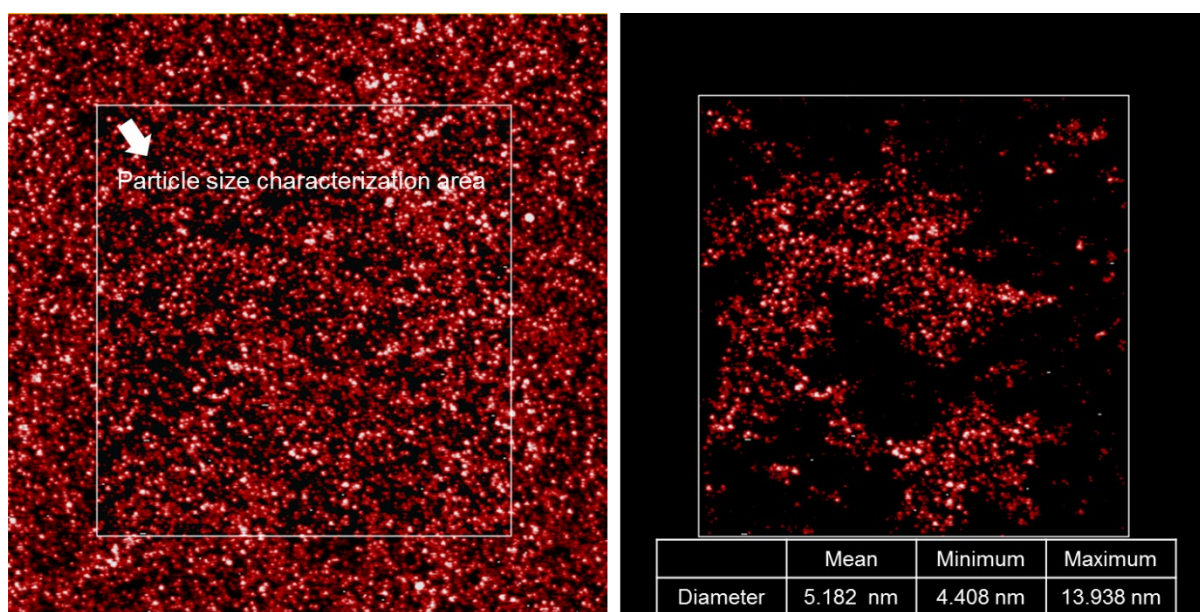|	Mean	Minimum	Maximum
Diameter	5.182 nm	4.408 nm	13.938 nm

Figure S2. AFM images as a tool for particle size characterization and the inset summarizes the particle analysis results from 268 particles of AC-paints-O.

Table S1. XPS atomic ratios of C-paints and AC-paints.

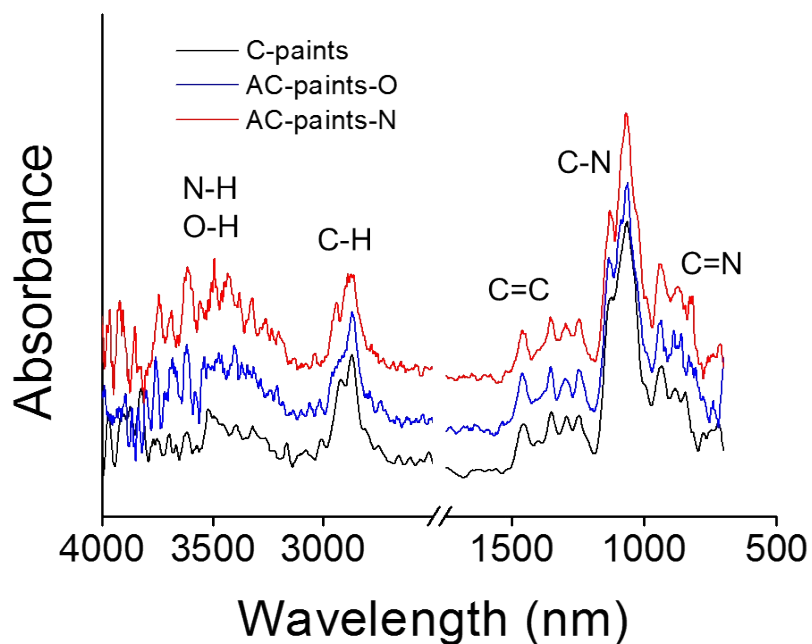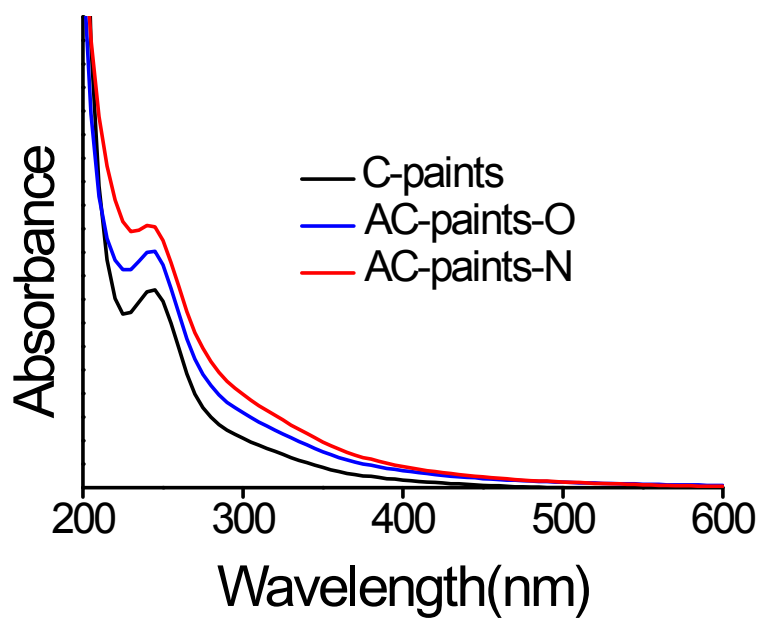|	Name	Atomic %
C-paints	C1s	67.54
	O1s	32.46
AC-paints-O	C1s	64.11
	O1s	35.89
AC-paints-N	C1s	60.09
	O1s	36.22
	N1s	3.7

Figure S3. FTIR spectra of C-paints and AC-paints.

Figure S4. UV–vis absorption of C-paints and AC-paints.