

## Supporting Information

### Catalytic Paper Spray Ionization Mass Spectrometry with Metal Nanotubes and the Detection of 2,4,6-trinitrotoluene (TNT)

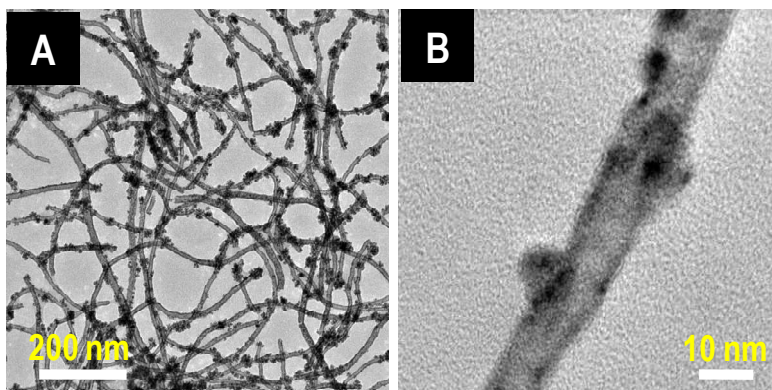
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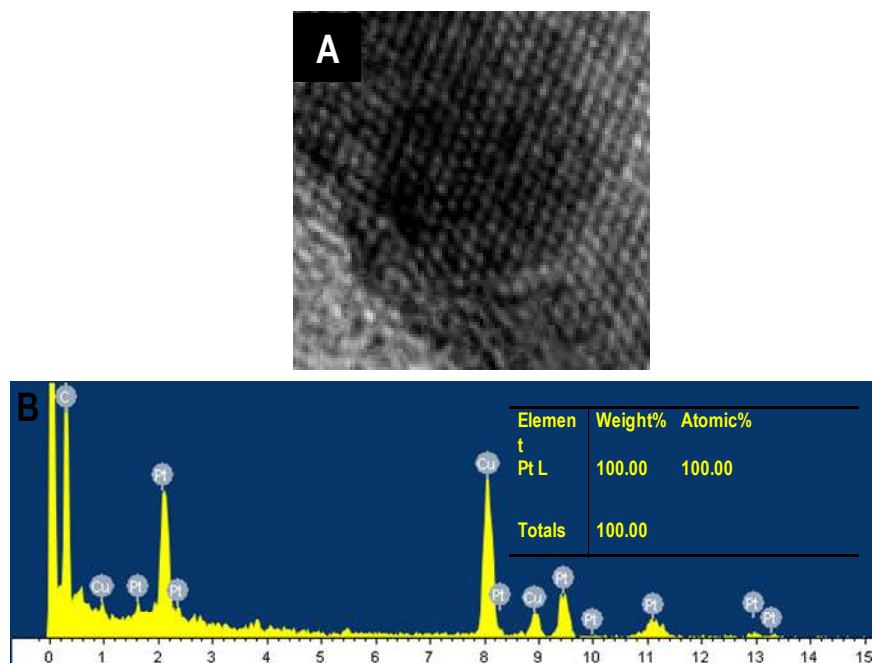
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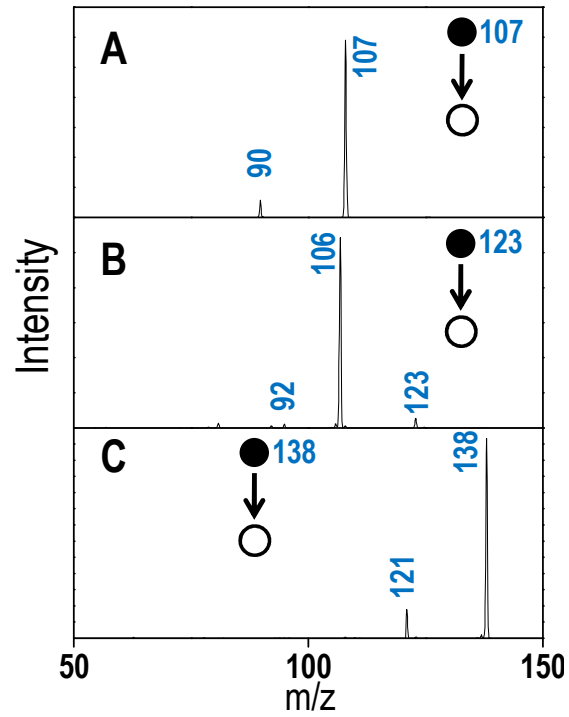
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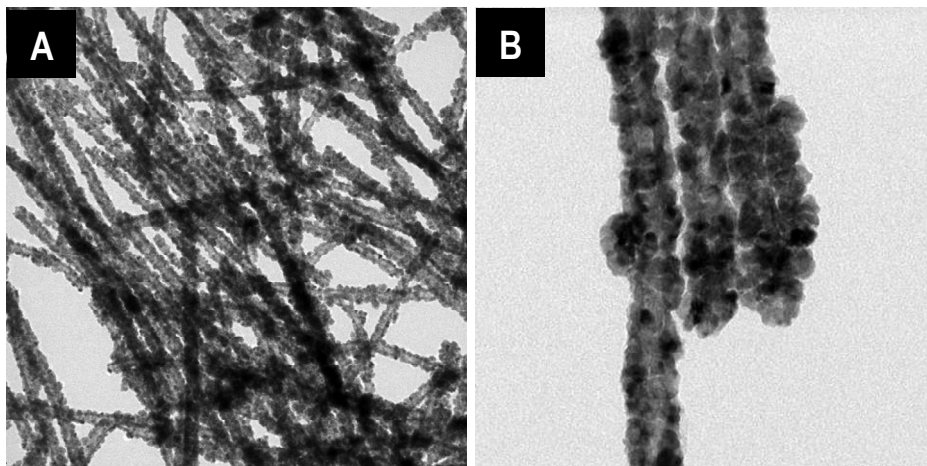
**Figure S1.** A) TEM image of unwashed PtNTs, B) TEM image of the same showing tubular nature of it.



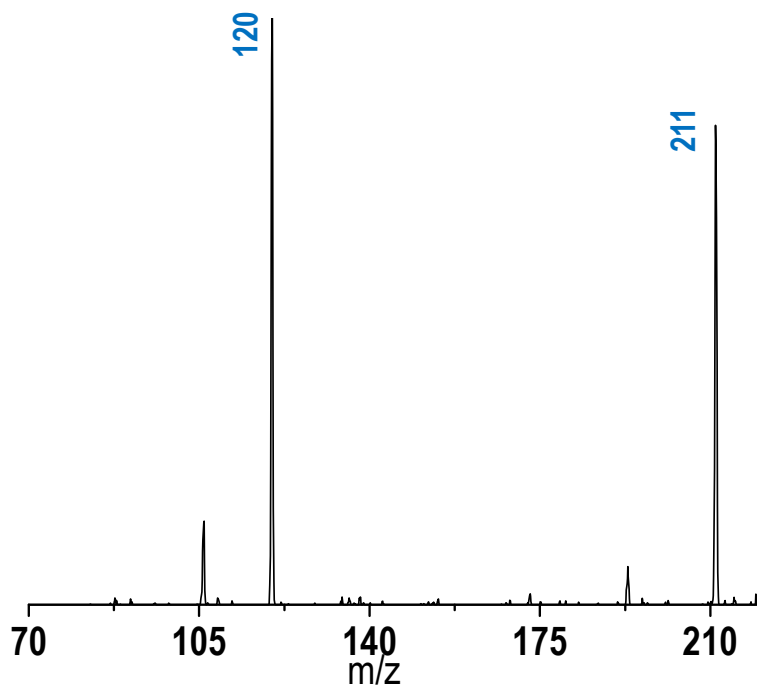
**Figure S2.** A) HRTEM of PtNTs, B) EDX spectrum of PtNT, inset shows the weight percentage of Pt.



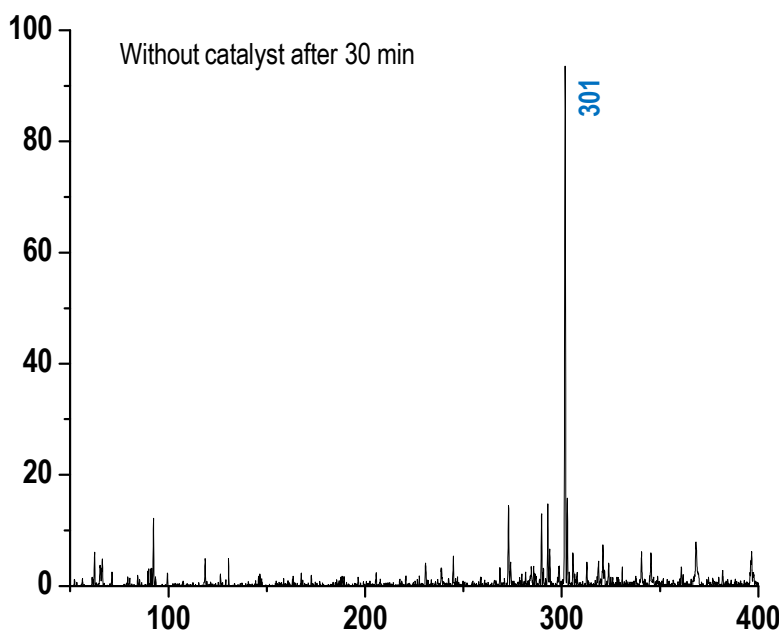
**Figure S3.** Tandem mass spectrum for all the product peaks A) p-aminotoluene, B) 2,4-diaminotoluene, and C) 2,4,6-triaminotoluene.



**Figure S4.** A) TEM image of PtNTs after catalysis reaction, B) TEM image of the same at higher magnification.



**Figure S5.** Tandem mass spectrum of m/z 211.



**Figure S6.** Mass spectrum collected from the reaction mixture of 2,4-dinitrotoluene and  $\text{NaBH}_4$ , without catalyst, after 30 min of mixing.