Electronic Supplementary Material (ESI) for Analyst.

Supporting Information

Direct Analysis of in-Gel Proteins by Carbon Nanotubes-Modified Paper Spray Ambient Mass Spectrometry

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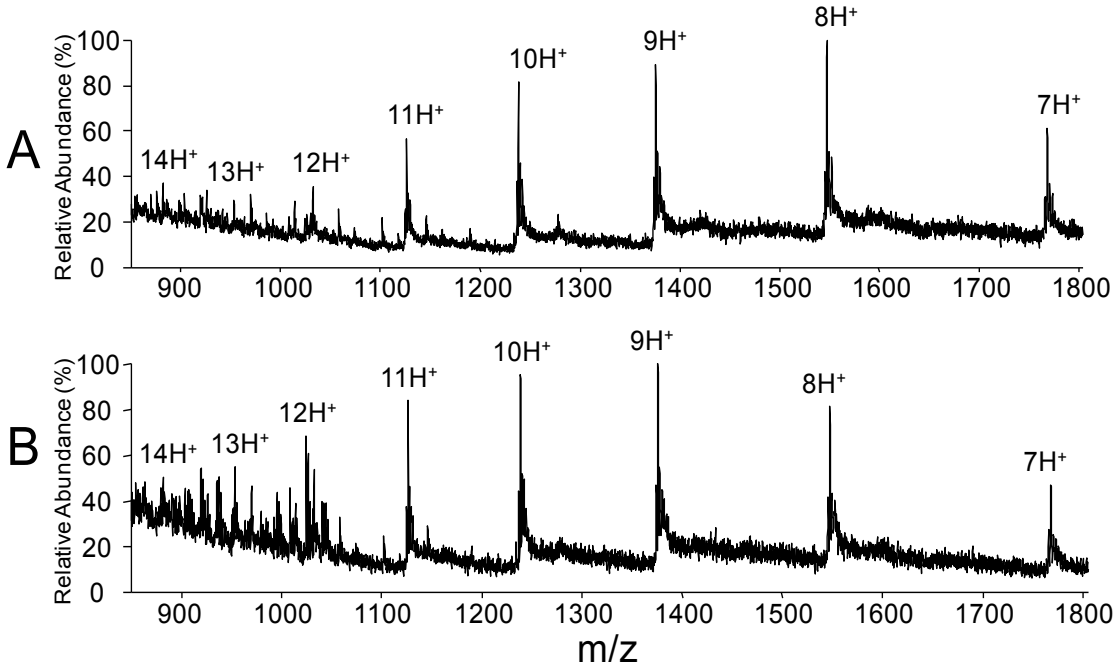

Figure S1. Mass spectra of in-gel cytochrome c on CNTs-modified filter papers modified by 0.25 mg CNTs (A) and 1.0 mg CNTs (B) on a φ-9 cm qualitative filter paper.

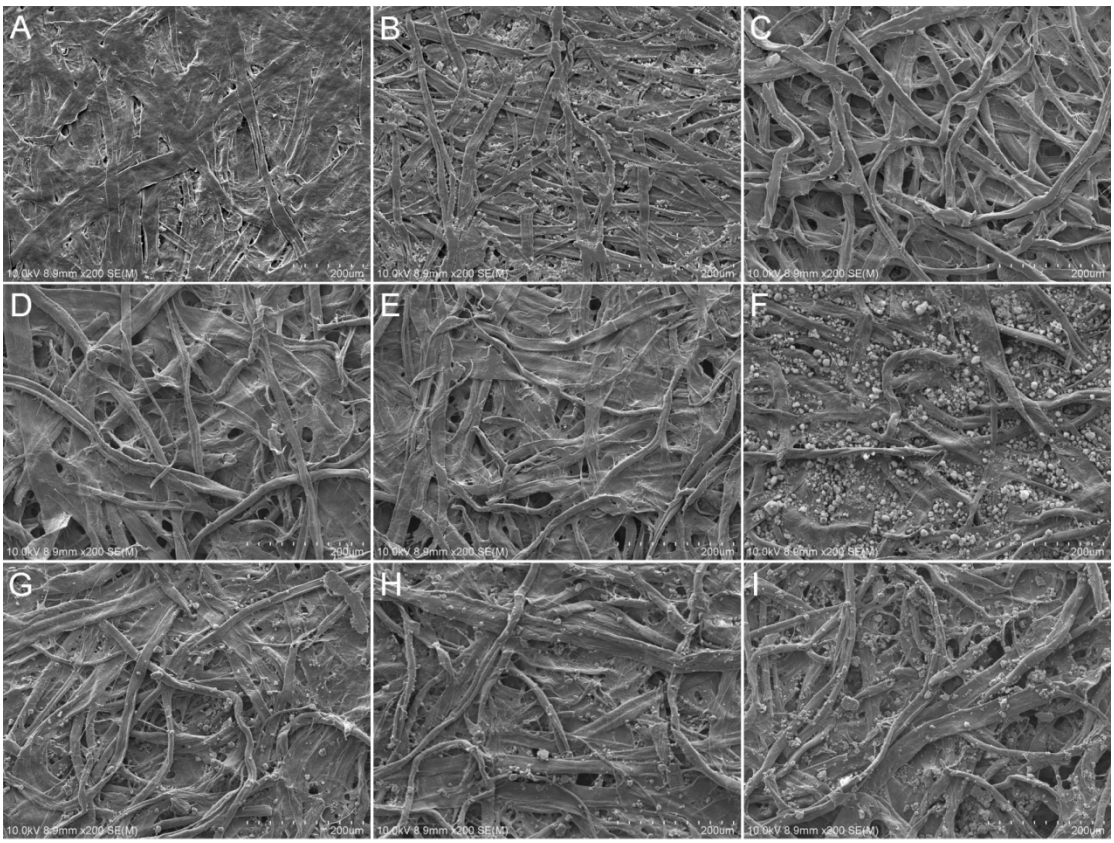

Figure S2. SEM images of weighting paper (A), printing paper (B), qualitative filter paper (C), and the ones modified by DHB (D), CHCA (E), SiO_2 (F), 0.25 mg CNTs (G), 0.5 mg CNTs (H), 1 mg CNTs (I) on a φ-9 cm filter paper.

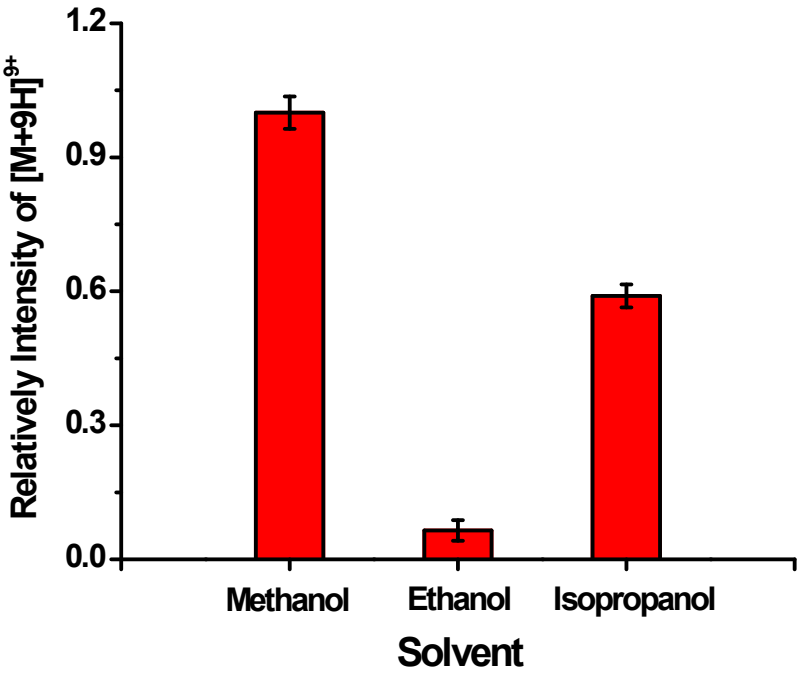

Figure S3. Effect of the spray solvent on the analysis of cytochrome c [$(M + 9H)^{9+}$, m /z 1376.2].

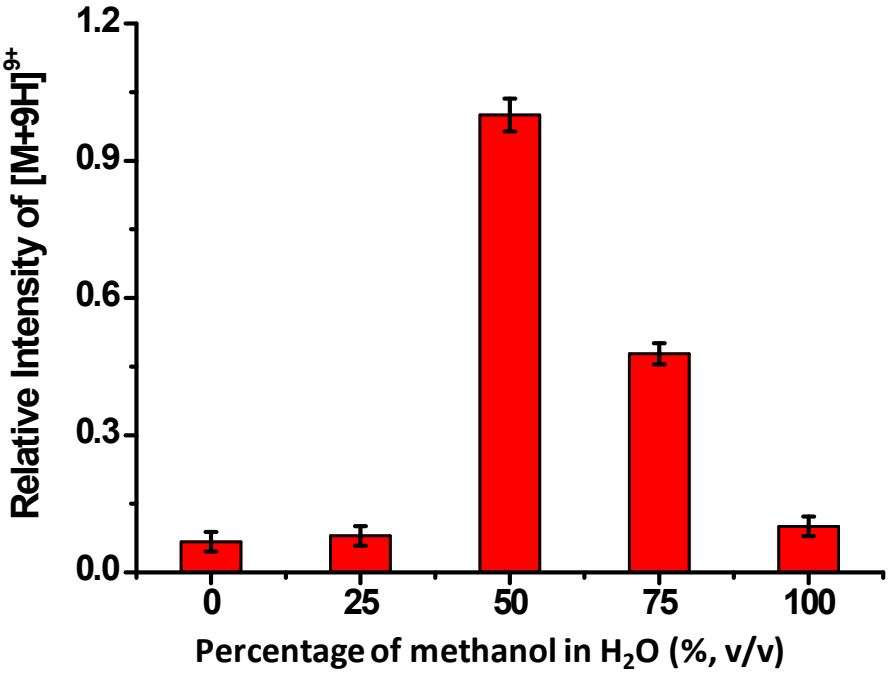

Figure S4. Effect of the percentage of methanol in solvent on the analysis of cytochrome c [$(M + 9H)^{9+}$, m /z 1376.2].

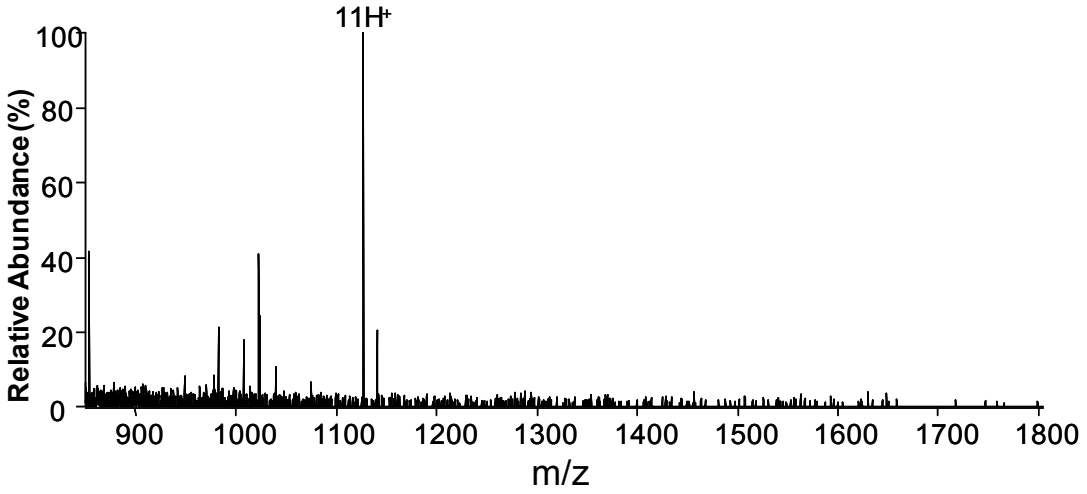

Figure S5. Mass spectra of 10 ng of cytochrome c per gel band.

Table S1. BET surface areas and pore diameter of CNTs and nano-SiO_2.

Nanomaterials	Surface area (m^2/g)	Pore Diameter (nm)
CNTs	428.801	34.180
Nano-SiO_2	218.883	172.946