

Surface Modified Electrospun Poly (vinyl alcohol) Membranes for Extracting Nanoparticles from Water

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Fig. SI 1: TEM images of citrate capped Au NPs (A) and citrate capped Ag NPs (B).

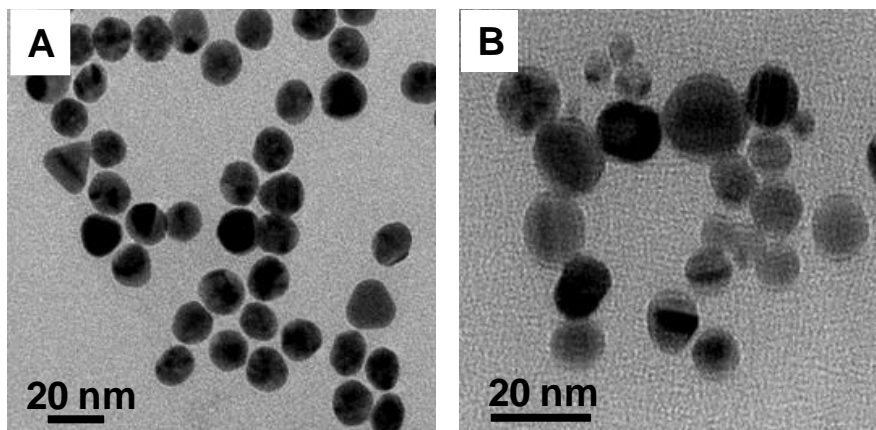
Table SI 2: Table for summary of the results obtained on 3rd trial of adsorption for both Ag and Au nanoparticles.

Fig. SI 3: Energy dispersive spectra of AgNP adsorbed PVA-LYS NFs (A), AuNPs adsorbed PVA-MSA NFs (B) and AuNPs adsorbed on to PVA-MPA NFs (C).

Fig. SI 4: EDS spectrum of silver nanoparticles desorption from PVA-LYS NFs by using 2N HCl.

Fig. SI 5: EDS spectrum of gold nanoparticles desorption from PVA-MSA NFs by using 2N HCl.

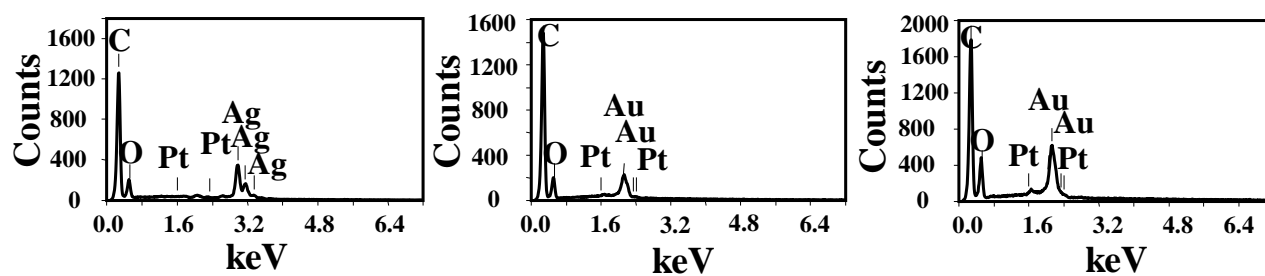
SI 1: TEM images of citrate capped Au NPs (A) and citrate capped Ag NPs (B).



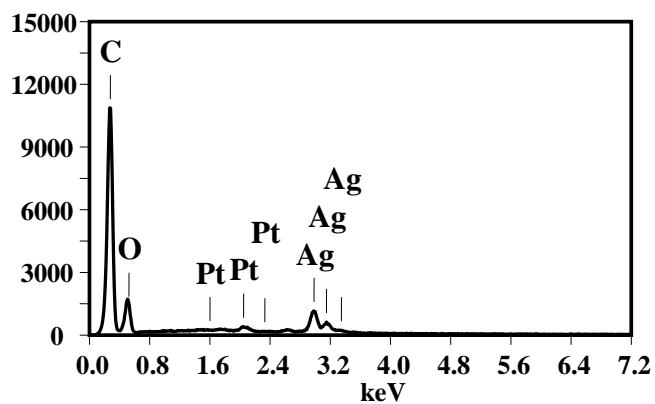
SI 2: Table for summary of the results obtained on 3rd trial of adsorption for both Ag and Au nanoparticles

Sample	Percentage of AgNP adsorbed	Percentage of AuNP adsorbed
PVA-LYS NF	35	17
PVA-MSANF	23	18
PVA-MPANF	20	22
PVA NF	8	7

SI 3: Energy dispersive spectra of AgNP adsorbed PVA-LYS NFs (A), AuNPs adsorbed PVA-MSA NFs (B) and AuNPs adsorbed on to PVA-MPA NFs (C).



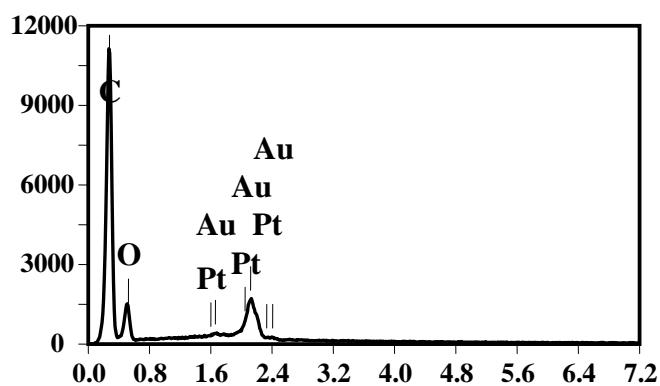
SI 4: EDS spectrum of silver nanoparticles desorption from PVA-LYS NFs by using 2N HCl



ZAF Method Standardless Quantitative Analysis

Element	(keV)	Mass%	Error%	Atom%
C K	0.277	56.75	0.09	72.96
O K	0.525	25.54	0.86	24.66
Ag L	2.983	15.30	1.11	2.19
Pt M	2.048	2.41	1.17	0.19
Total		100.00		100.00

SI 5: EDS spectrum of gold nanoparticles desorption from PVA-MSA NFs by using 2N HCl.



ZAF Method Standardless Quantitative Analysis

Element	(keV)	Mass%	Error%	Atom%
C K	0.277	63.99	0.11	81.80
O K	0.525	17.45	0.70	16.75
Au M	2.121	11.62	1.01	0.91
Pt M	2.048	6.94	0.97	0.55
Total		100.00		100.00