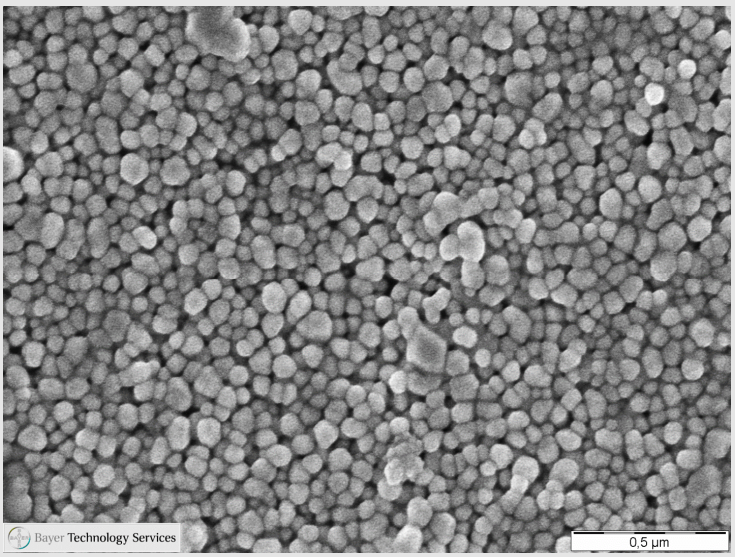
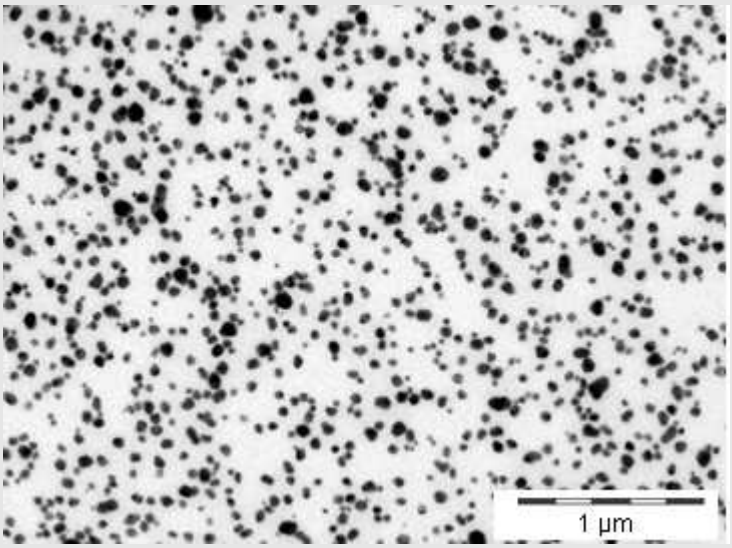
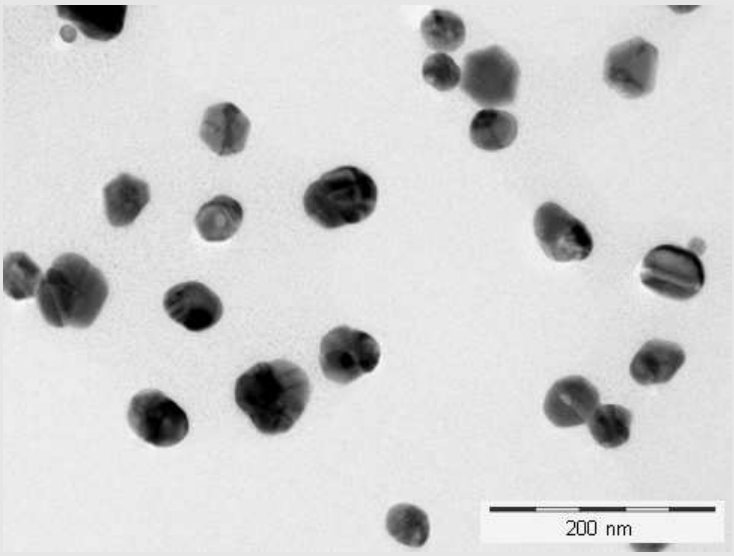
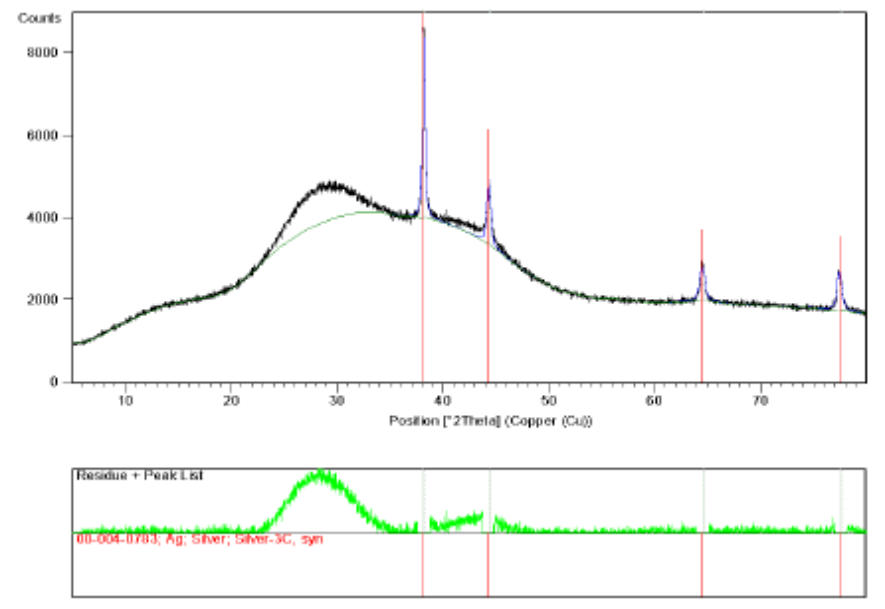
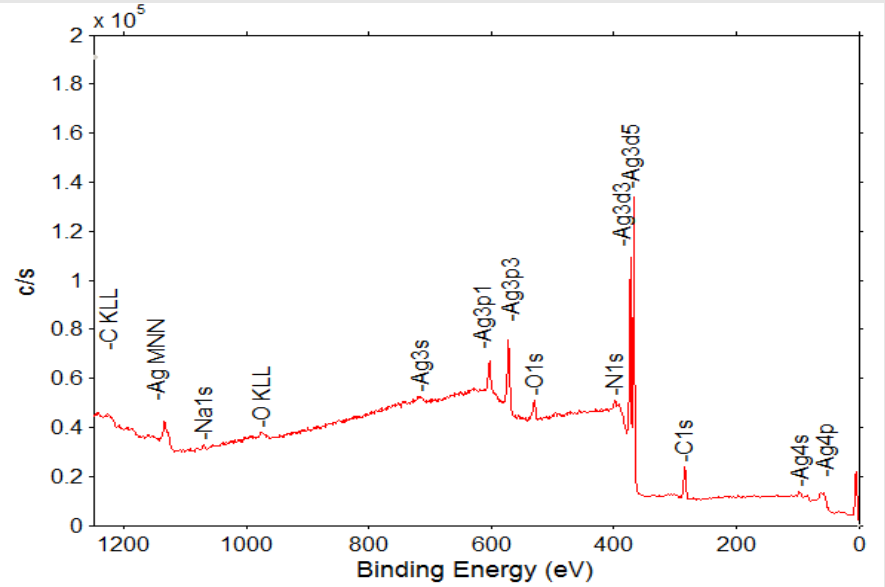
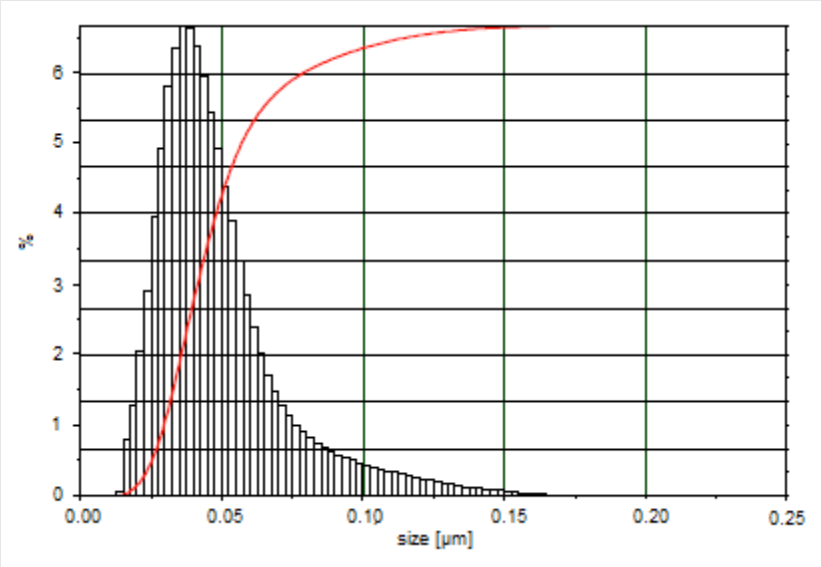
Material Ag (50 nm)

NanoTOES number	NanoTOES_Ag_50
Provider	Bayer Technology Services GmbH
Concentration	1 % (wt/wt) in water $3.91*10^{13}$ NPs/ml
Specific Surface Area	$1.37*10^{1}$ m^2/g
Size/ Size distribution & Agglomeration/ Aggregation state	DLS: (Correlation Func., Number Distribution) 74.5 nm +/-1.2 ; PDI= 0.130 TEM: d50= 55 nm, d90= 62 nm AC: d50= 43 nm, d90= 78 nm
Shape	quasi spherical
Crystal Structure	cubic
Surface Chemistry	XPS: Atom % C 48.6, Ag 25.6, O 15.9, N 7.7, Na 2.2 SIMS: Ag, Na, K, Ca, $C_xH_yO_z$
pH (in water)	5.9
Surface Charge	Zeta potential: - 17.5 mV+/- 0.5 IEP: ~ 1.3 pH

Scanning (Raster) Electron Microscopy (SEM)	
Transmission Electron Microscopy (TEM)	 

X-ray Diffraction (XRD)	
X-ray Photoelectron Spectroscopy (XPS)	

Analytical Ultracentrifugation (AC)	
Zeta Potential & Isoelectric Point