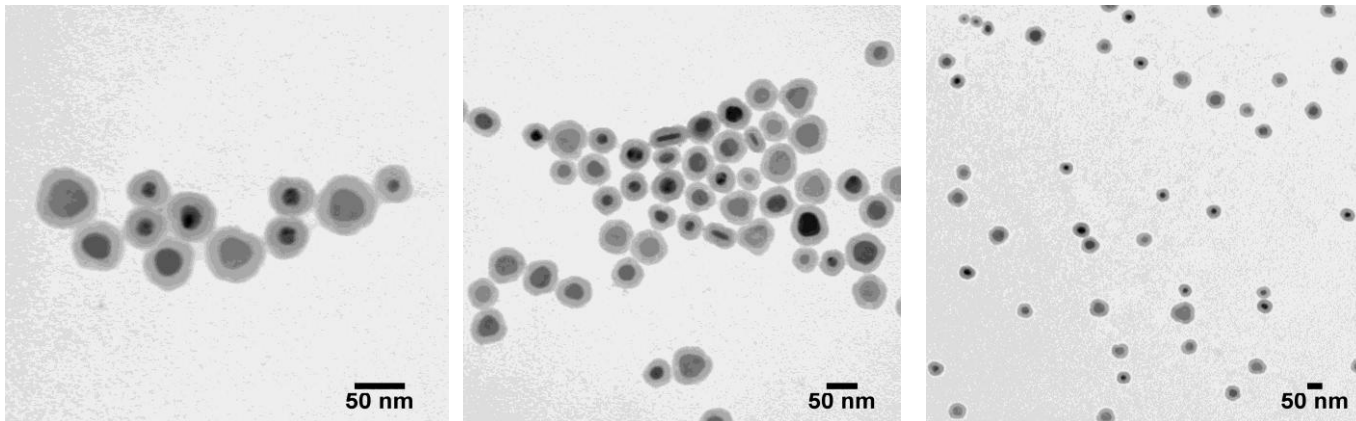


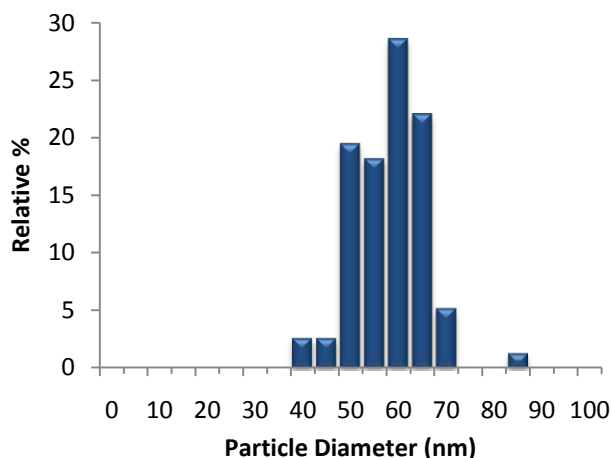
# 550 nm Resonant Silica Shelled Silver Nanoplates

Lot Number: JMW1797

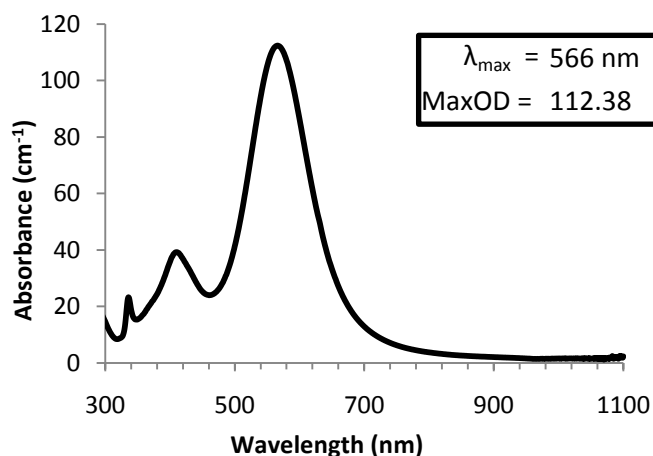
|                                  |          |                                 |                          |
|----------------------------------|----------|---------------------------------|--------------------------|
| <b>Total Diameter (TEM):</b>     | 55.6 nm  | <b>Mass Concentration (Ag):</b> | 1.04 mg/mL               |
| <b>Coefficient of Variation:</b> | 12.9 %   | <b>pH of Solution:</b>          | 8.64                     |
| <b>Core Diameter (TEM):</b>      | 30.3 nm  | <b>Particle Surface:</b>        | Silanol                  |
| <b>Shell Thickness (TEM):</b>    | 12.7 nm  | <b>Solvent:</b>                 | 10 mM Bicarbonate Buffer |
| <b>Peak Wavelength:</b>          | 566.0 nm |                                 |                          |



Size Distribution



Optical Properties



## Characterization Instrumentation

|  |  |
|--|--|
| <b>Diameter and Size Statistics:</b>         | JEOL 1010 Transmission Electron Microscope |
| <b>Mass Concentration:</b>                   | Thermo Fisher X Series 2 ICP-MS            |
| <b>Spectral Properties:</b>                  | Agilent 8453 UV-Visible Spectrometer       |
| <b>Hydrodynamic Diameter/Zeta Potential:</b> | Malvern Zetasizer Nano ZS.                 |

Storage and Handling: Cool, dry place away from light.  
DO NOT FREEZE. AVOID INHALATION. Sonicate to resuspend.