

Low Dimensional Material Products. Co. Ltd



Technical Data Sheet

1D-LDMP-Silver Nanowires

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Date	Version	Modified information	Others
2019.07	01	First release	

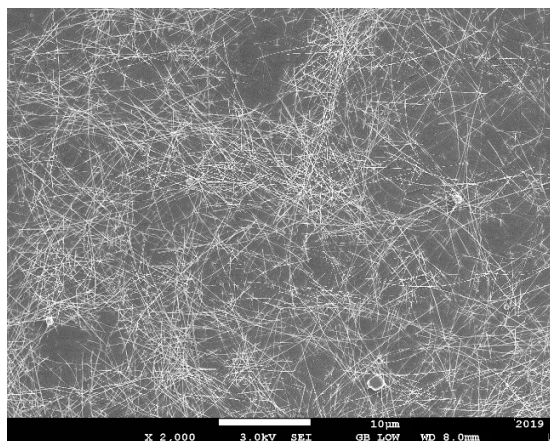
1. Products list

Products	Average Diameter (nm)	Average Length (μm)	Silver Purity (%)	Concentration (wt%)
1D-LDMP-AgNW-16	16	25-50	~99.5	1.0
1D-LDMP-AgNW-25	25	30-40	~99.5	1.0
1D-LDMP-AgNW-30	30	30-50	~99.5	1.0
1D-LDMP-AgNW-35	35	35-50	~99.5	1.0
1D-LDMP-AgNW-40	40	40-60	~99.5	1.0

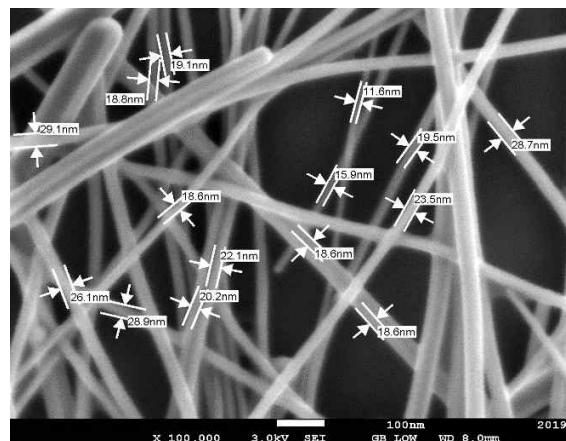
2. Characterizations

- **Standard dispersion solvent:** In a mixture of water and isopropanol (50/50 v/v) at concentration of 1.0 weight percent.
- **Customized dispersion solvents:** Can be provide in a variety of solvents: Water, ethanol, isopropanol, butanol, 1-n-propanol or other solvent as requested.
- **Concentration:** The standard concentration is 1.0wt%, and we can provide this product with a concentration up to 5.0wt %.

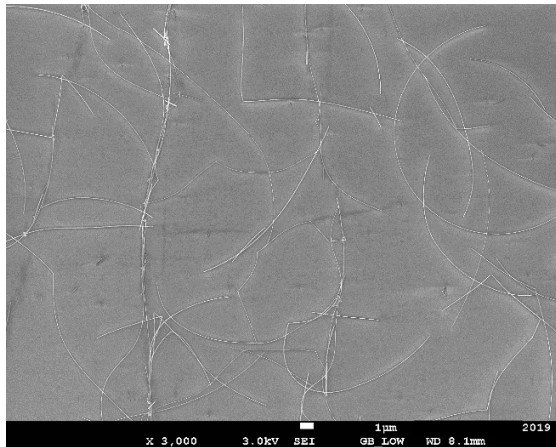
3. Structural Features



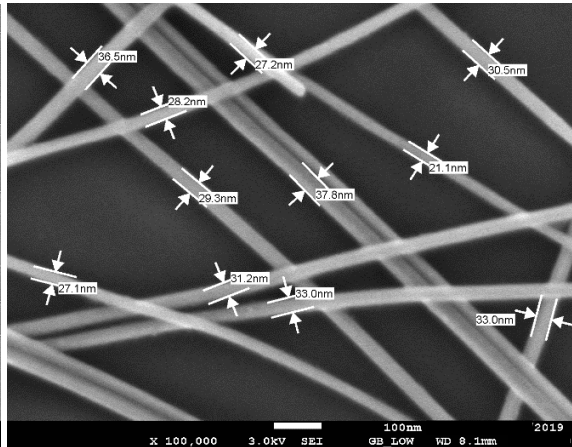
FE-SEM of LDMP-1D-AgNW-25



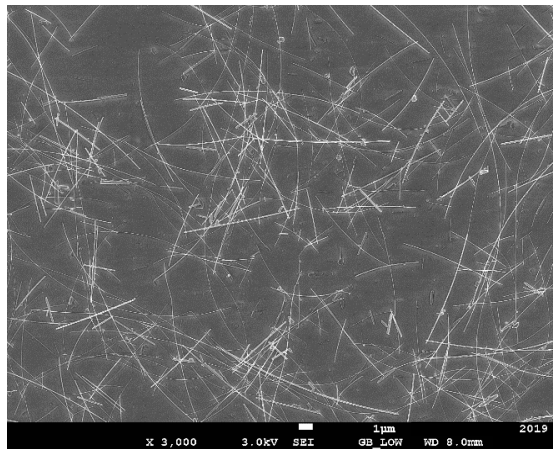
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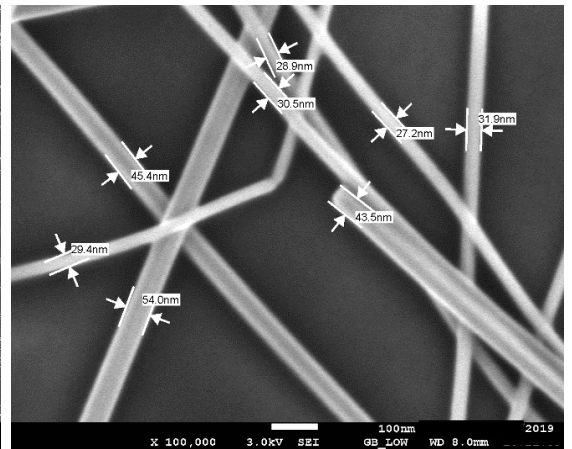
FE-SEM of LDMP-1D-AgNW-30



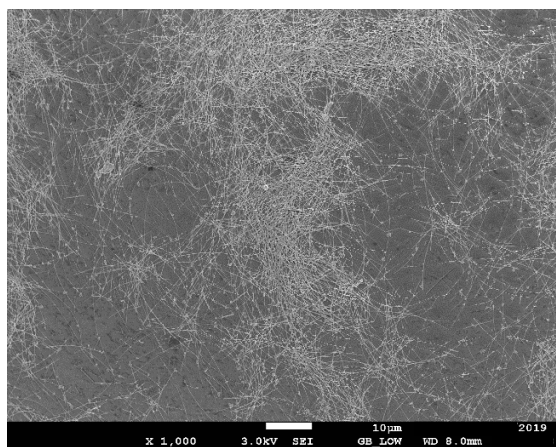
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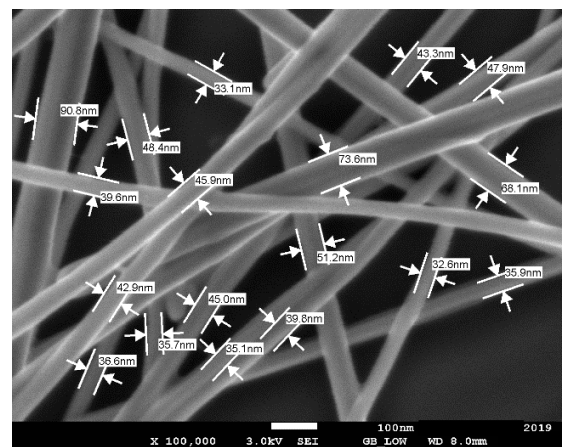
FE-SEM of LDMP-1D-AgNW-35



FE-SEM of LDMP-1D-AgNW-35



FE-SEM of LDMP-1D-AgNW-40



FE-SEM of LDMP-1D-AgNW-40

4. Applications

- **Optical Applications:** Solar cell electrodes; Medical imaging; Surface enhanced Raman spectroscopy; transparent conductive electrode for OLED, touch screen (smart phone, tablets, flexible display, wearable electronics), transparent antennas, Optical limiters.
- **Conductive Applications:** High-intensity LEDs, Touch screens, Conductive adhesives, Sensors
- **Anti-microbial Applications:** Air & water purification, Bandages, Films, Food preservation, Clothing Chemical & Thermal application: Catalysts, Pastes, Conductive adhesives, Polymers; Chemical vapor sensors

5. Disclaimer:

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