



Technical Data Sheet

ACS Material Nano Size Monolayer Tungsten Disulfide (Powder and Dispersion)

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1. Preparation Method

Lithium-based Intercalation Method

2. Characterizations

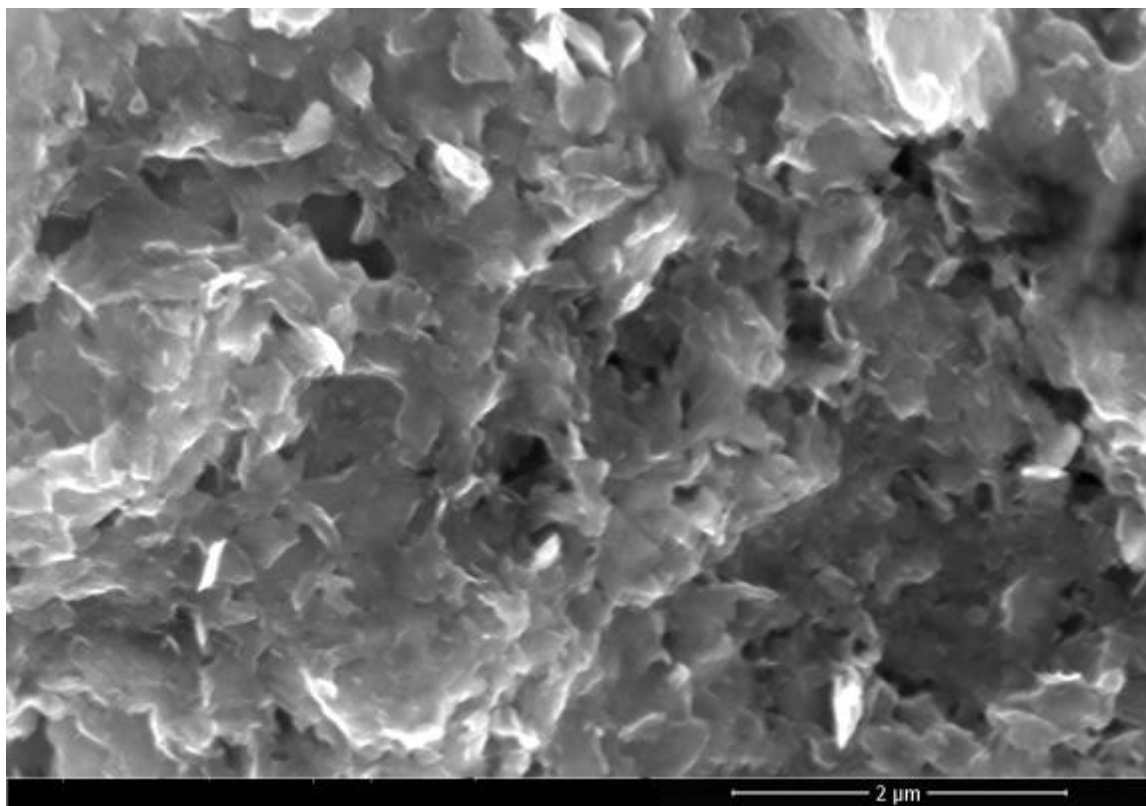
Composition: Monolayer Tungsten disulfide with small size

Appearance: Black powder or dispersion

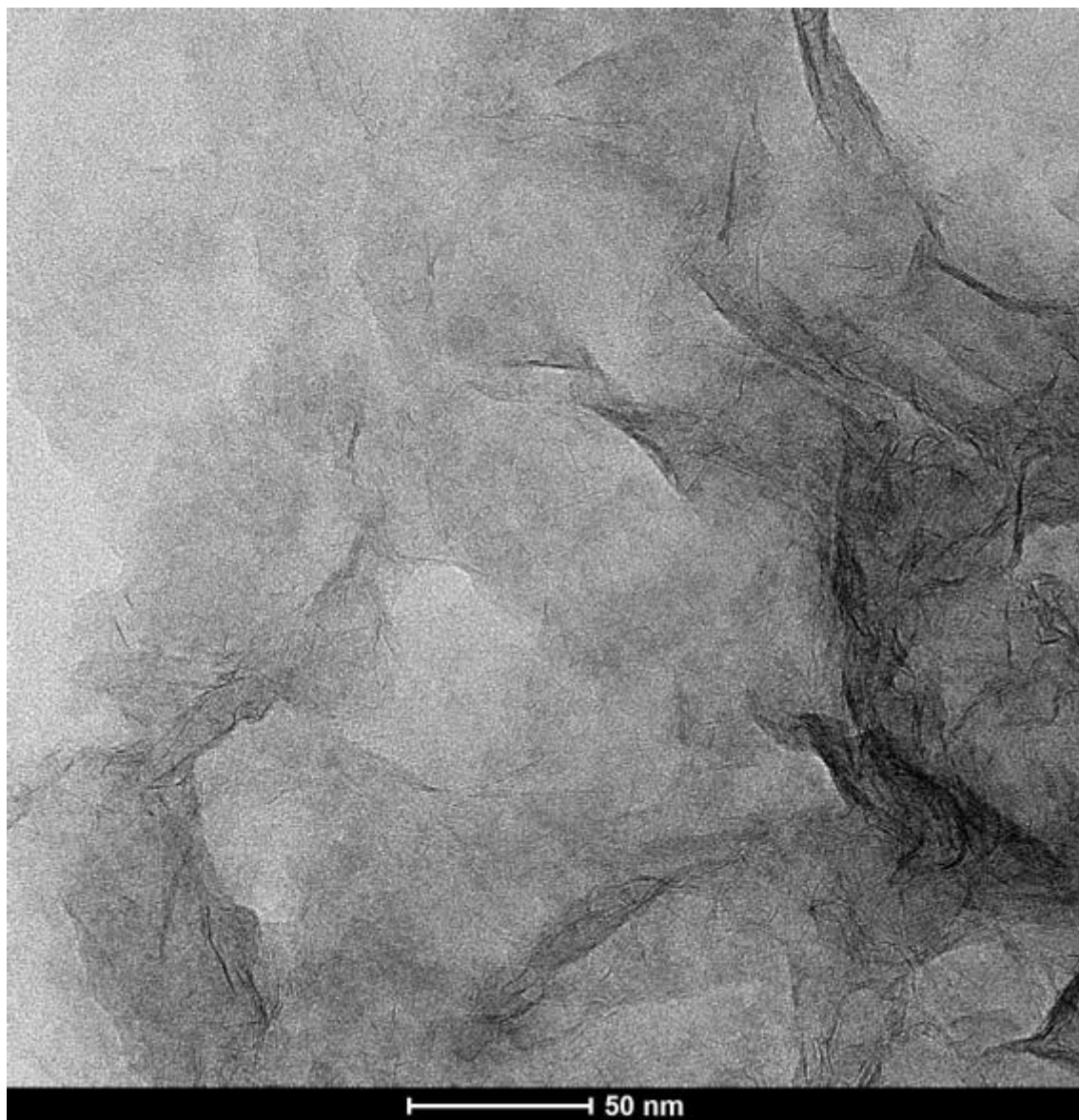
Diameter: 20-500 nm

Thickness: ~ 1 nm

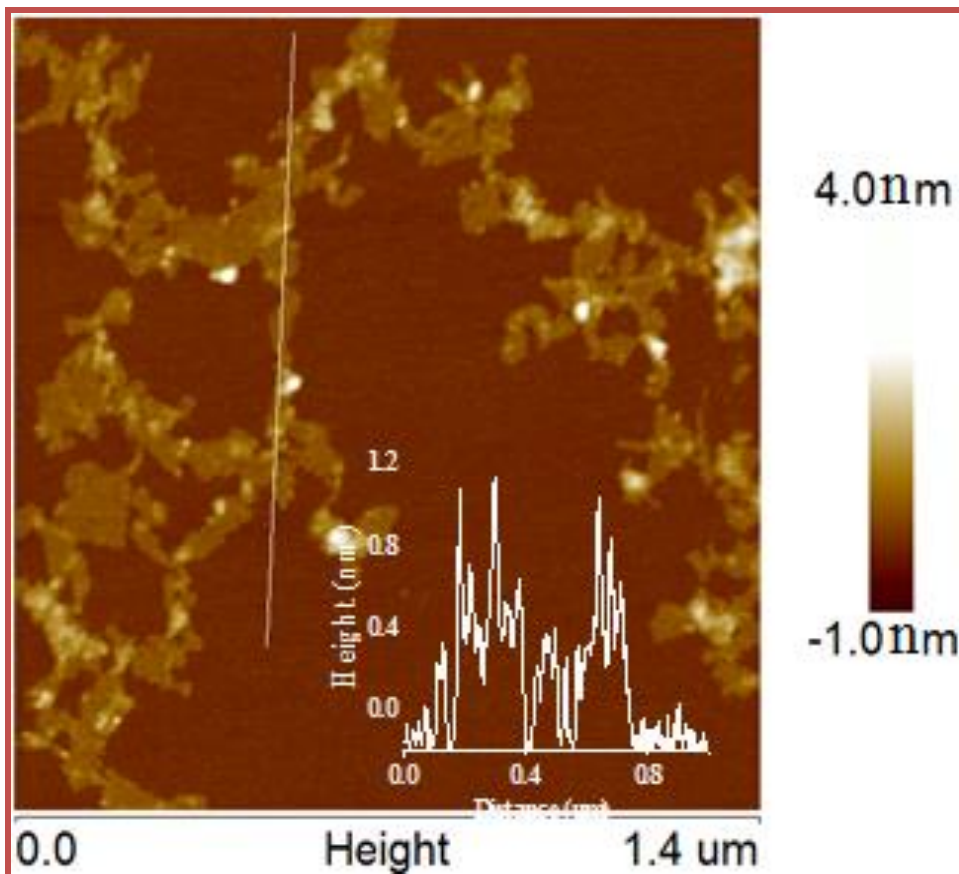
Monolayer ratio: $\geq 90\%$



SEM Image (1) of ACS Material Nano Size Monolayer Tungsten Disulfide



TEM Image (2) of ACS Material Nano Size Monolayer Tungsten Disulfide



AFM Image (3) of ACS Material Nano Size Monolayer Tungsten Disulfide

3. Application Fields

Transistor, sensor, photocatalytic, electronic device.

Small size Monolayer Tungsten disulfide will be supplied as powder or dispersion, and it has good solubility in water and ethanol. The dispersion concentration of small size Monolayer Tungsten disulfide in water will be adjustable in 0.1mg - 1 mg/ml. If you have any questions, please contact us, and we will try our best to provide the solutions for you.

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