



Technical Data Sheet

ACS Material Bio MoS₂

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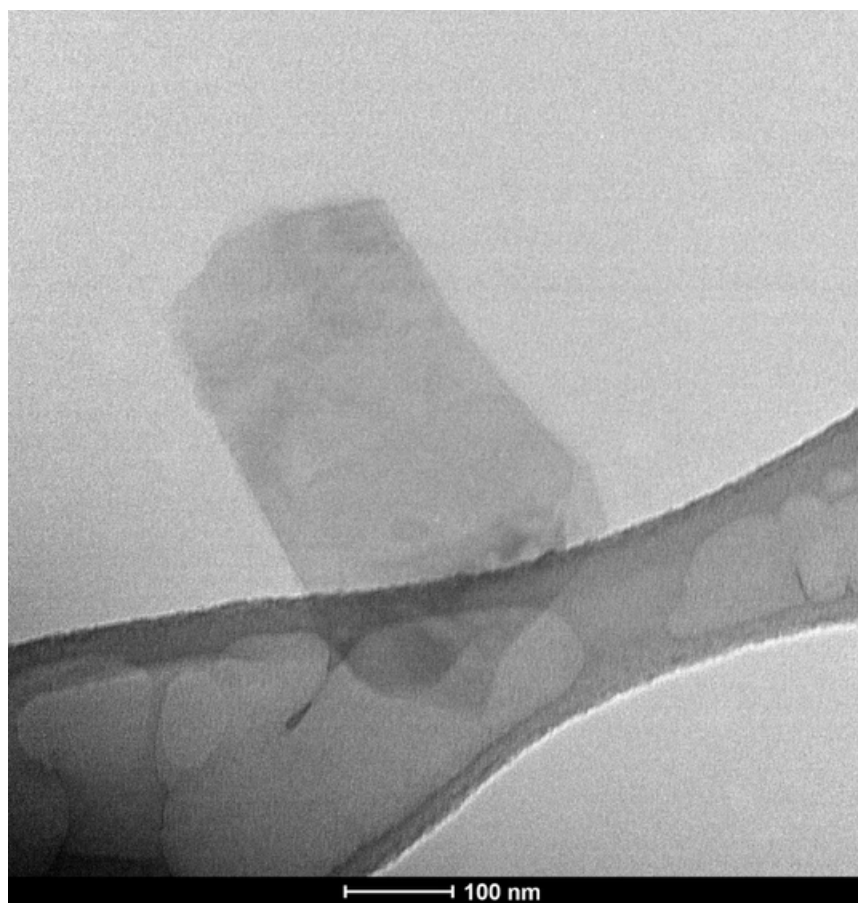
Revision: 010518

1. Preparation Method

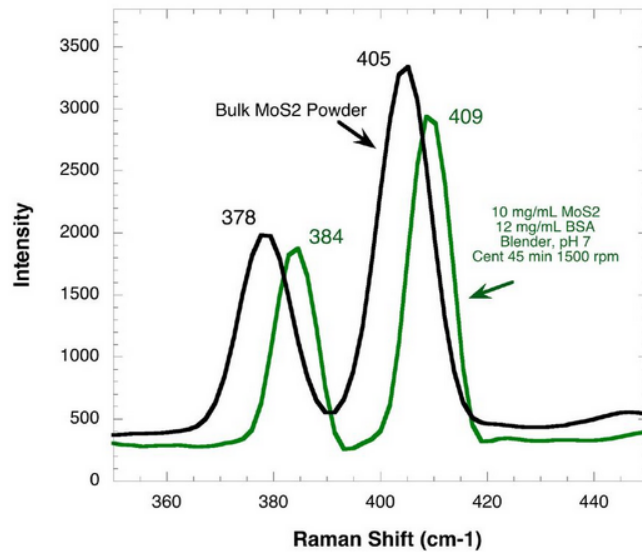
Shear Exfoliation using biological agents

2. Characterizations

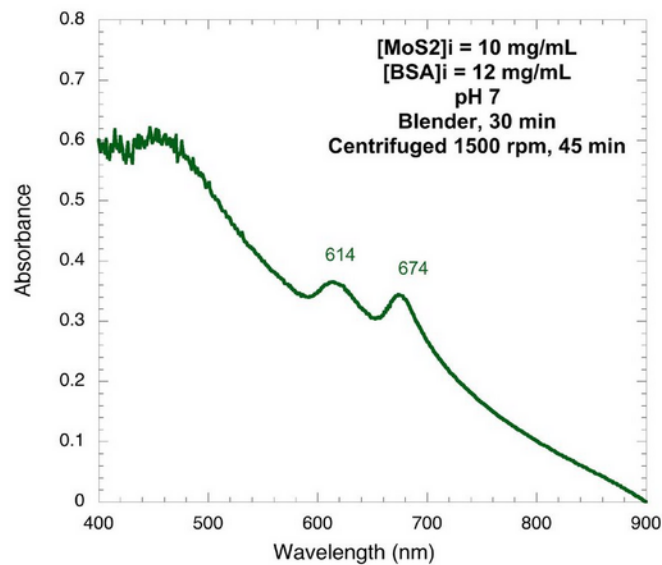
| | |
|--------------------------------|-------------------------------------|
| Size (sheets): | 0.3 μm |
| Average Thickness: | Mono-few layers |
| pH: | 7 |
| Platelet Concentration: | $\approx 1 \text{ mg/mL}$ platelets |



Typical TEM Image of ACS Material Bio MoS₂ Nanosheet



Typical Raman Spectrum of ACS Material Bio MoS₂



UV-Vis Spectra of ACS Material MoS₂-BSA Dispersion

3. Application Fields

- 1) Solar devices
- 2) Biosensors
- 3) Bioelectronics
- 4) Drug delivery
- 5) Bioassays
- 6) Biological research

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