

SEM - Zeiss EVO 60 I

Date: 2020-01-21

Tags: SEM PSD EVO60 14/01/2020Synth

Created by: James Bird

1 / 2

Goal : Attain secondary electron micographs that capture a representative distribution of Ti_3C_2 MXene nanoparticle to produce a particle-size distribution (PSD)

Procedure :

- Samples ([Experiment] SEM stub preparation for PSD V) loaded into SEM chamber and vacuum acquired
- 10 kV accelerating voltage set for electron beam
- WD either 7.5 or 8 mm
- Everhart-Thornley secondary electron (SE) detector employed

Results :

Sample	Filename suffix
Suspension of concentration given for sample #2 ([Experiment] UV-Visible Spectroscopy for concentration calculation)	conc
Suspension of concentration given for sample #7	dilute005

Again failed to optimise imaging conditions for this sample type and microscope. MXene particles appear to be visible, but poor resolution images captured.

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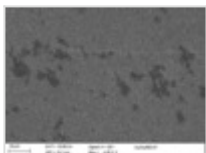
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2 / 2

Attached files

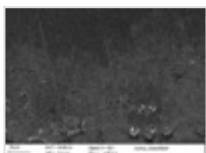
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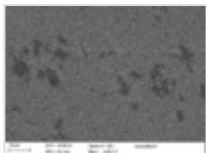
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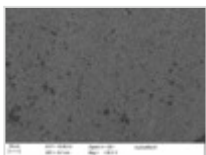
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KaiKai004_conc.tif

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Link: <https://frankel-elab.manchester.ac.uk/experiments.php?mode=view&id=39>