Supplementary materials:

CH surface and porosity test report

Summary Report

Surface Area

Single point surface area at p/p° = 0.250270095: 2.4078 m²/g

BET Surface Area: 2.4859 m²/g

Pore Volume

Single point adsorption total pore volume of pores less than 2.3143 nm diameter at p/p° = 0.250270095: 0.001141 cm³/g

Pore Size

Adsorption average pore width (4V/A by BET): 1.83625 nm

DFT Pore Size

Volume in Pores	<	1.416 nm	:	0.00000 cm³/g
Total Volume in Pores	<=	38.734 nm	:	0.00115 cm³/g
Area in Pores	>	38.734 nm	:	0.000 m²/g
Total Area in Pores	>=	1.416 nm	:	1.937 m²/g

Started:	2022-10-26 9:54:00	Analysis Adsorptive:	N2
Completed:	2022-10-26 12:11:47	Analysis Bath Temp.:	77.370 K
Report Time:	2022-10-28 10:32:44	Thermal Correction:	No
Sample Mass:	0.1543 g	Cold Free Space:	-0.8919 cm³ Measured
Equilibration Interval:	5 s	Low Pressure Dose:	None
Sample Density:	1.000 g/cm³	Automatic Degas:	No

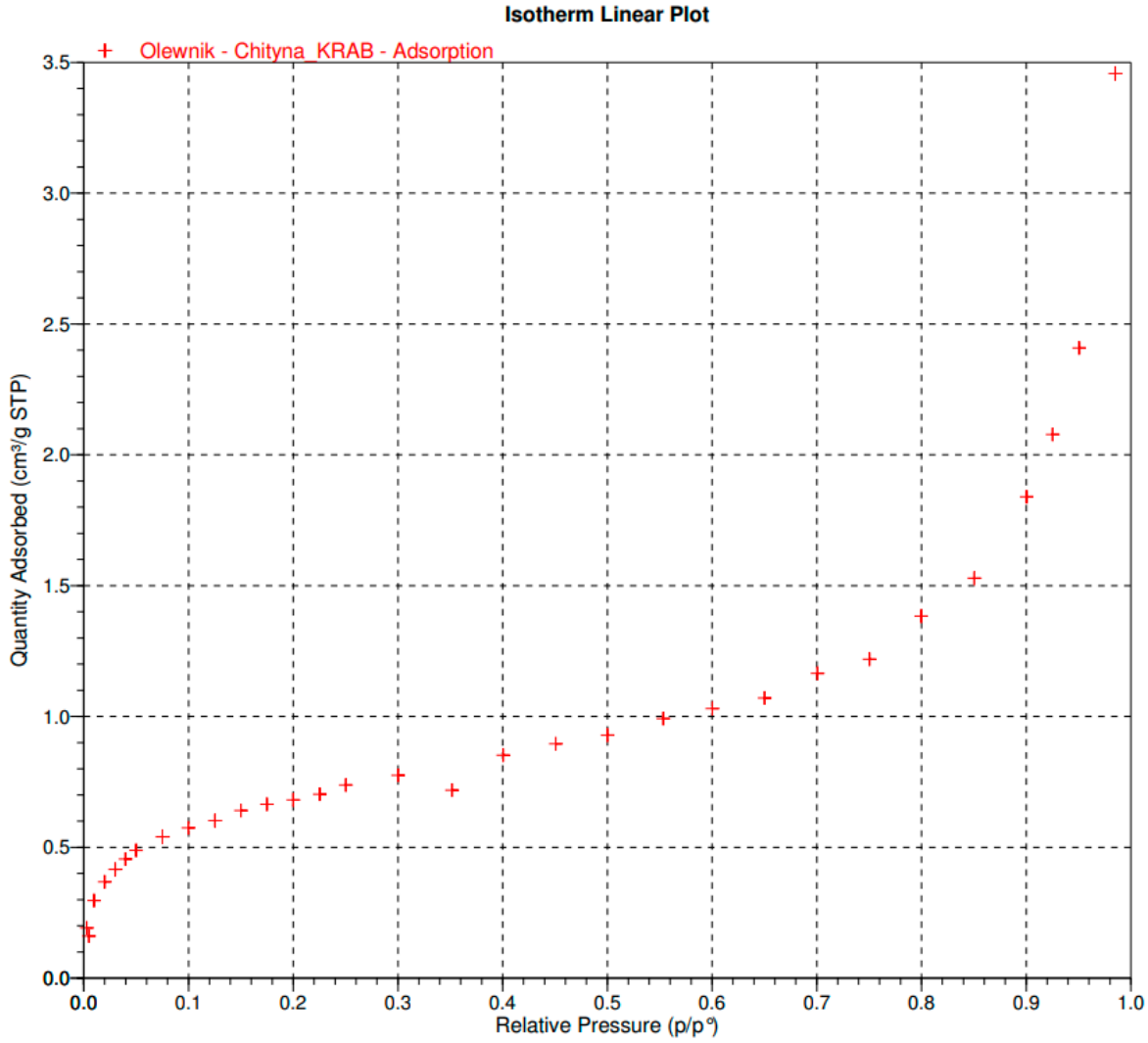

Figure S1. N2 adsorption isotherm on the CH surface

Started:	2022-10-26 9:54:00	Analysis Adsorptive:	N2
Completed:	2022-10-26 12:11:47	Analysis Bath Temp.:	77.370 K
Report Time:	2022-10-28 10:32:44	Thermal Correction:	No
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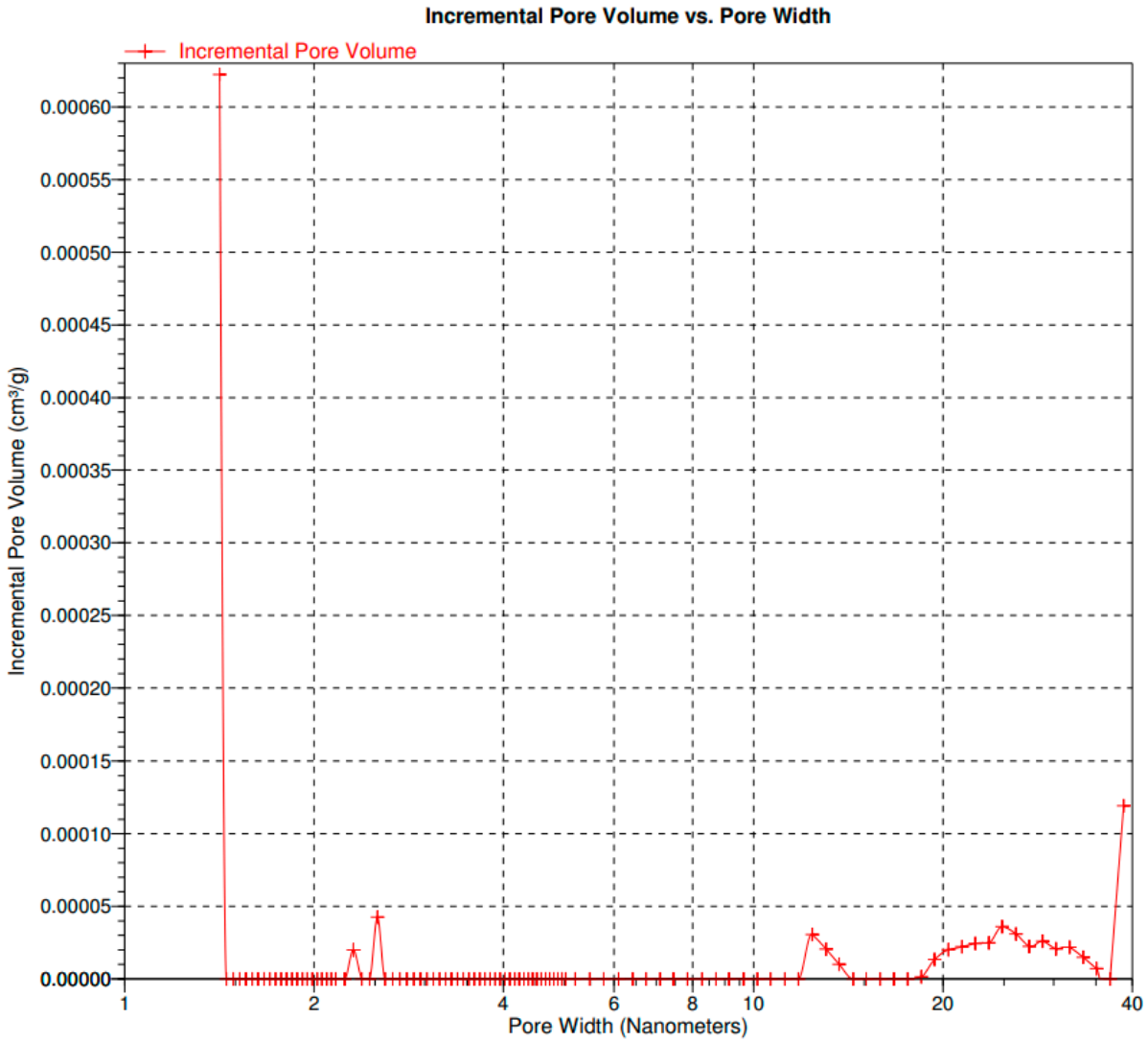

Figure S2. Incremental Pore Volume vs. Pore Width – CH Surface analysis

SEM images of CH

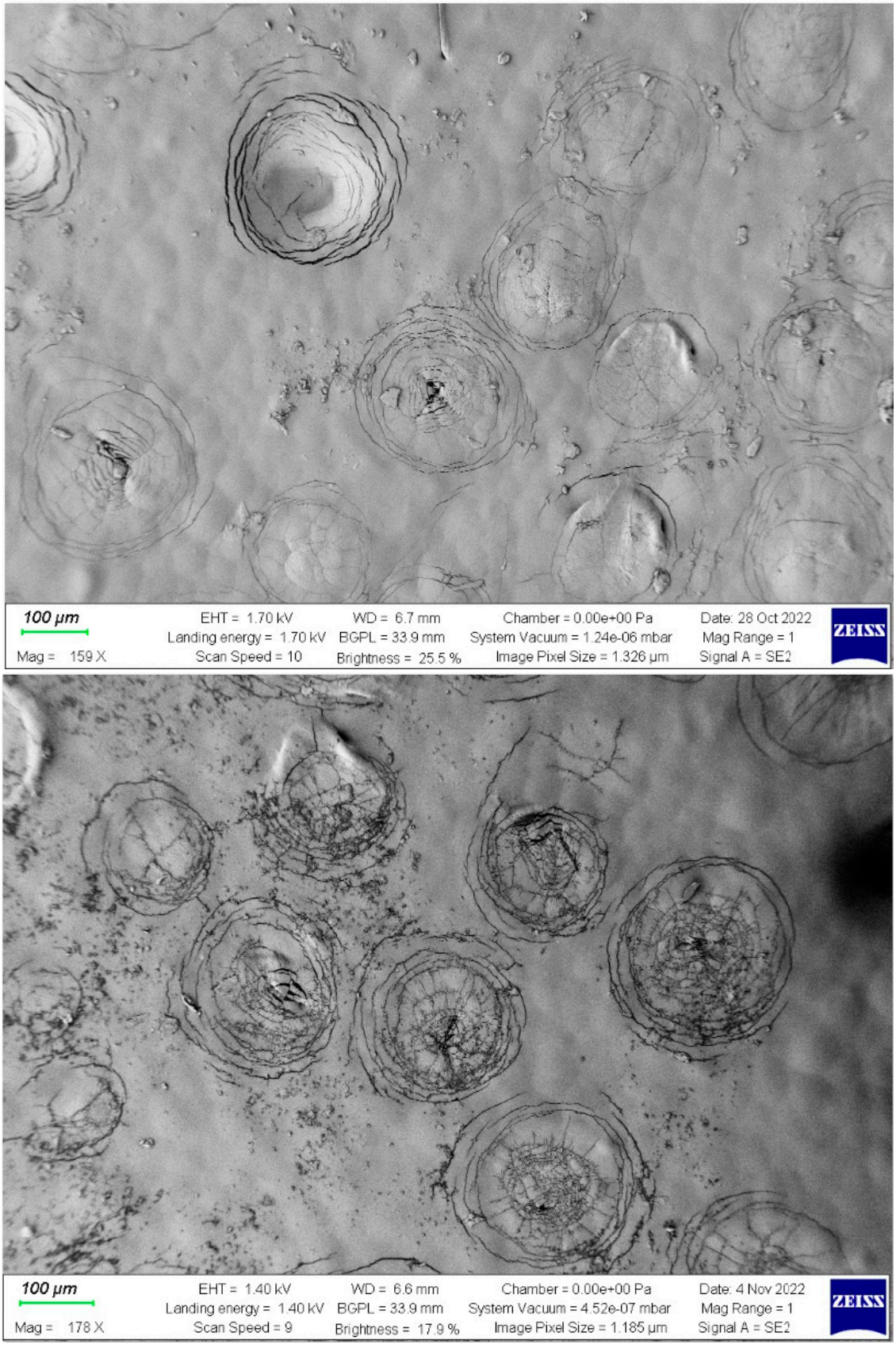

Figure S3. SEM images of CH – part 1

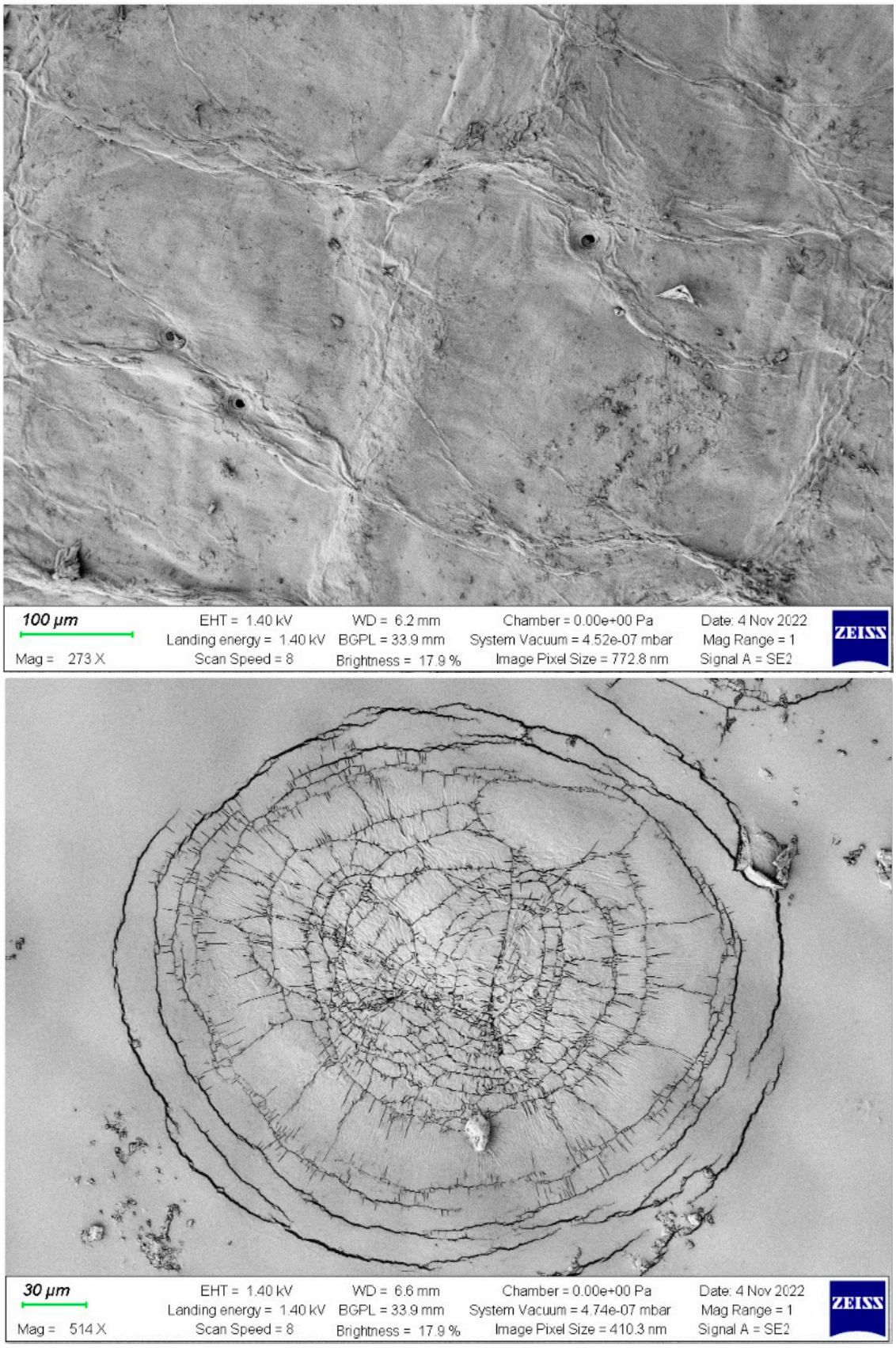

Figure S4. SEM images of CH – part 2