

Polymer Electrolyte Research: Photo Gallery

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1 Film Preparation



Figure 1: Drying films on steel electrodes in vacuum oven

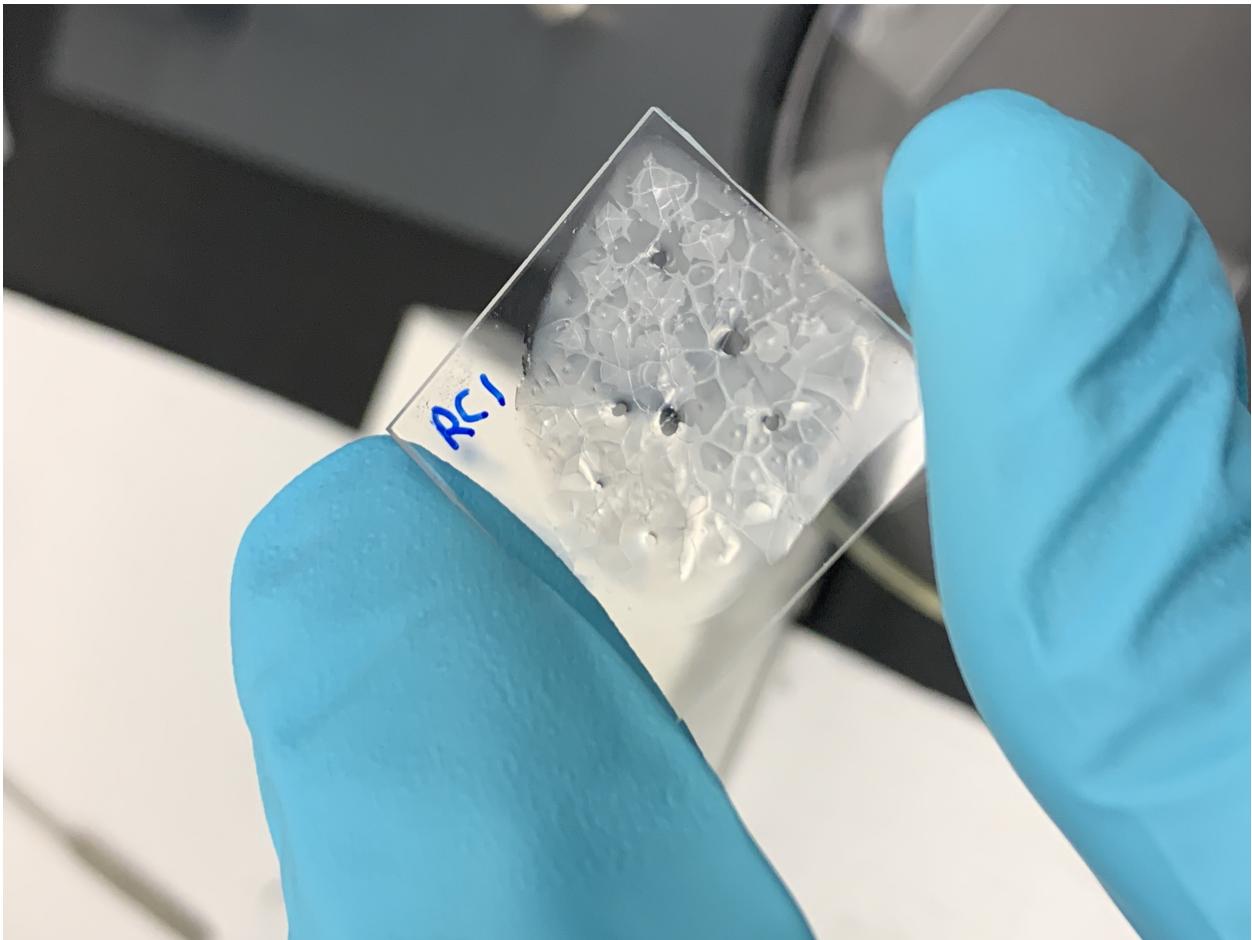


Figure 2: Small 100- μm film after vacuum drying

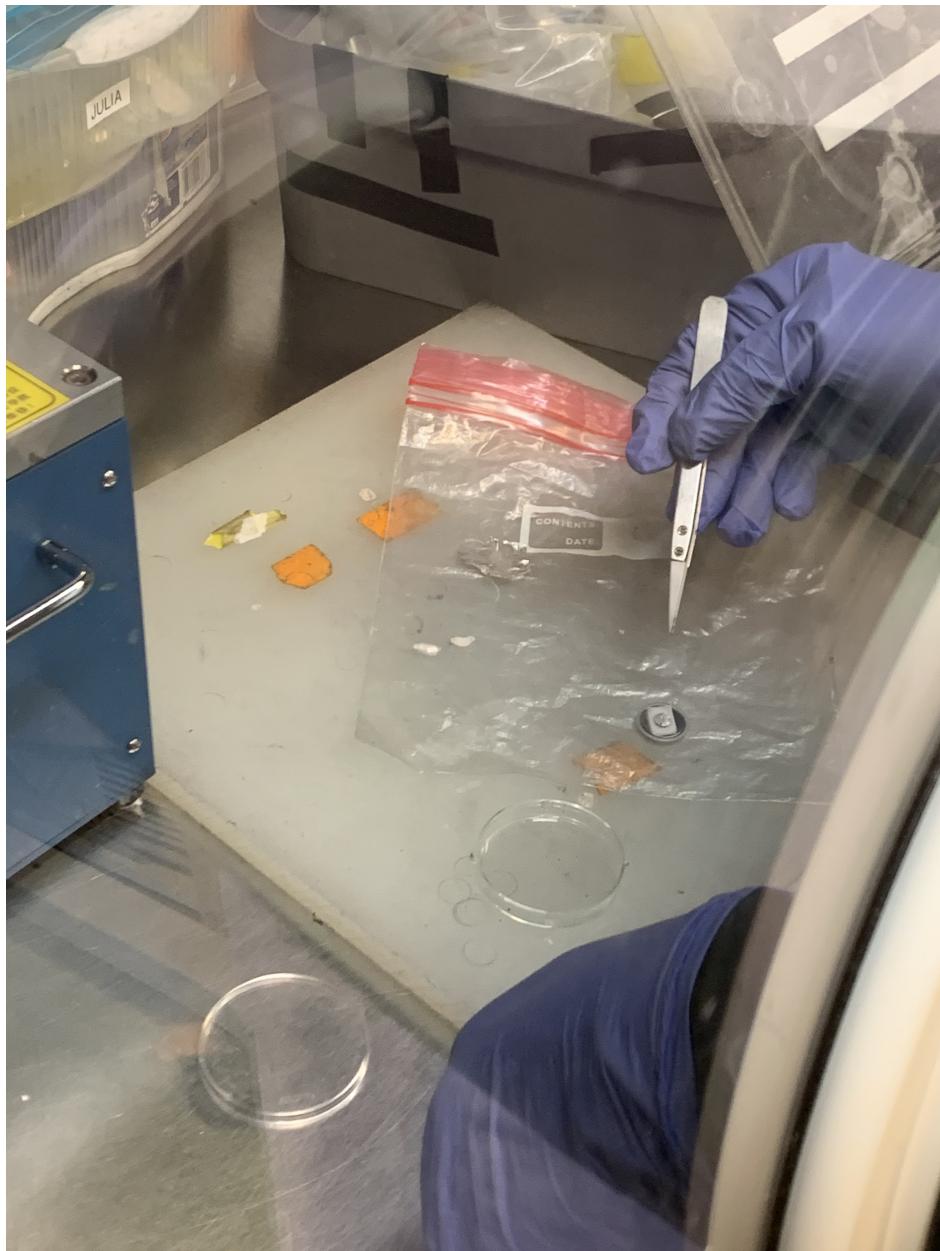


Figure 3: Measuring ionic conductivity and transference number for polymer electrolyte film in sodium-sodium coin cell under inert glovebox atmosphere

2 Cryostat

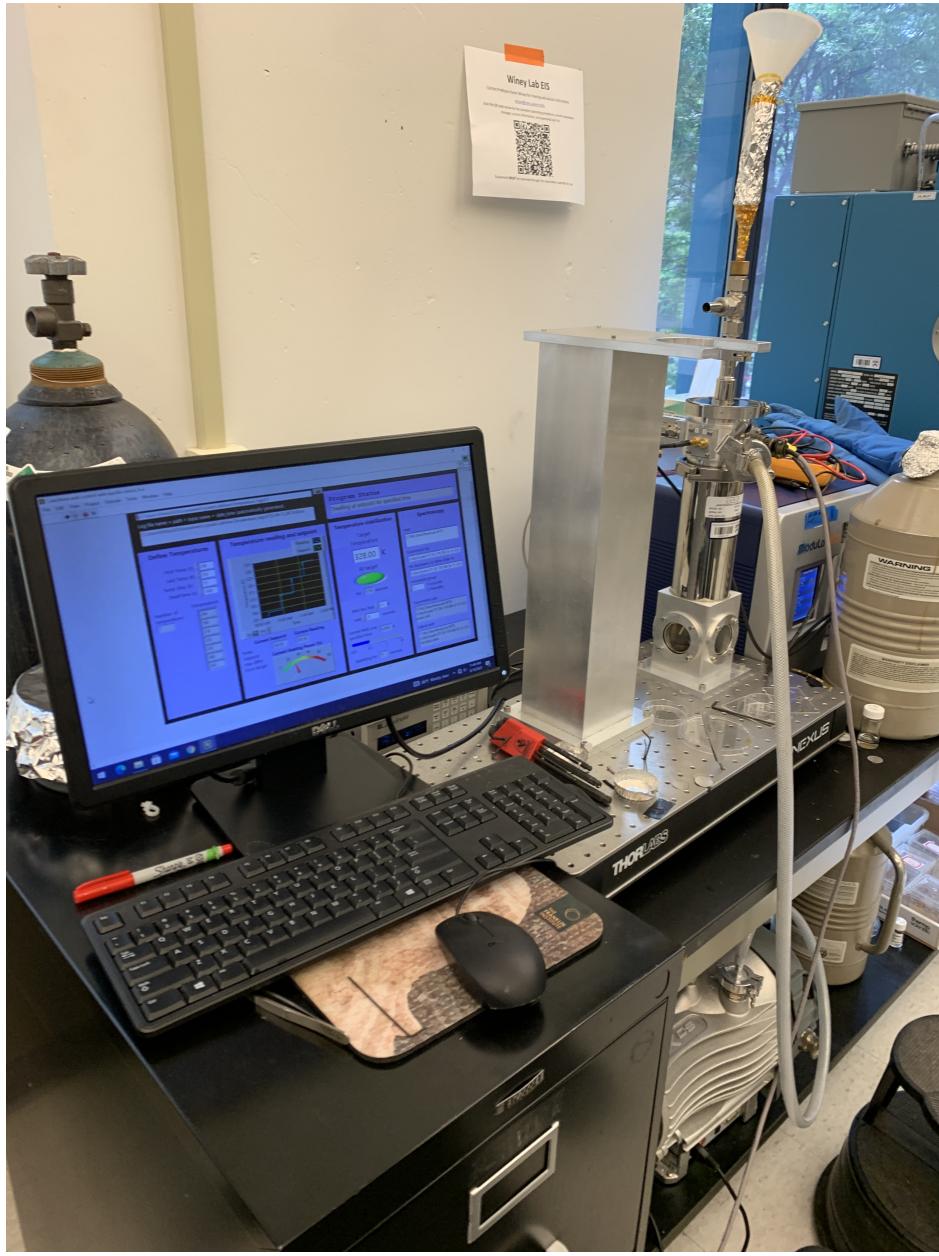


Figure 4: Cryostat used for Electrochemical Impedance Spectroscopy (EIS)



Figure 5: Below-room-temperature operation using liquid nitrogen

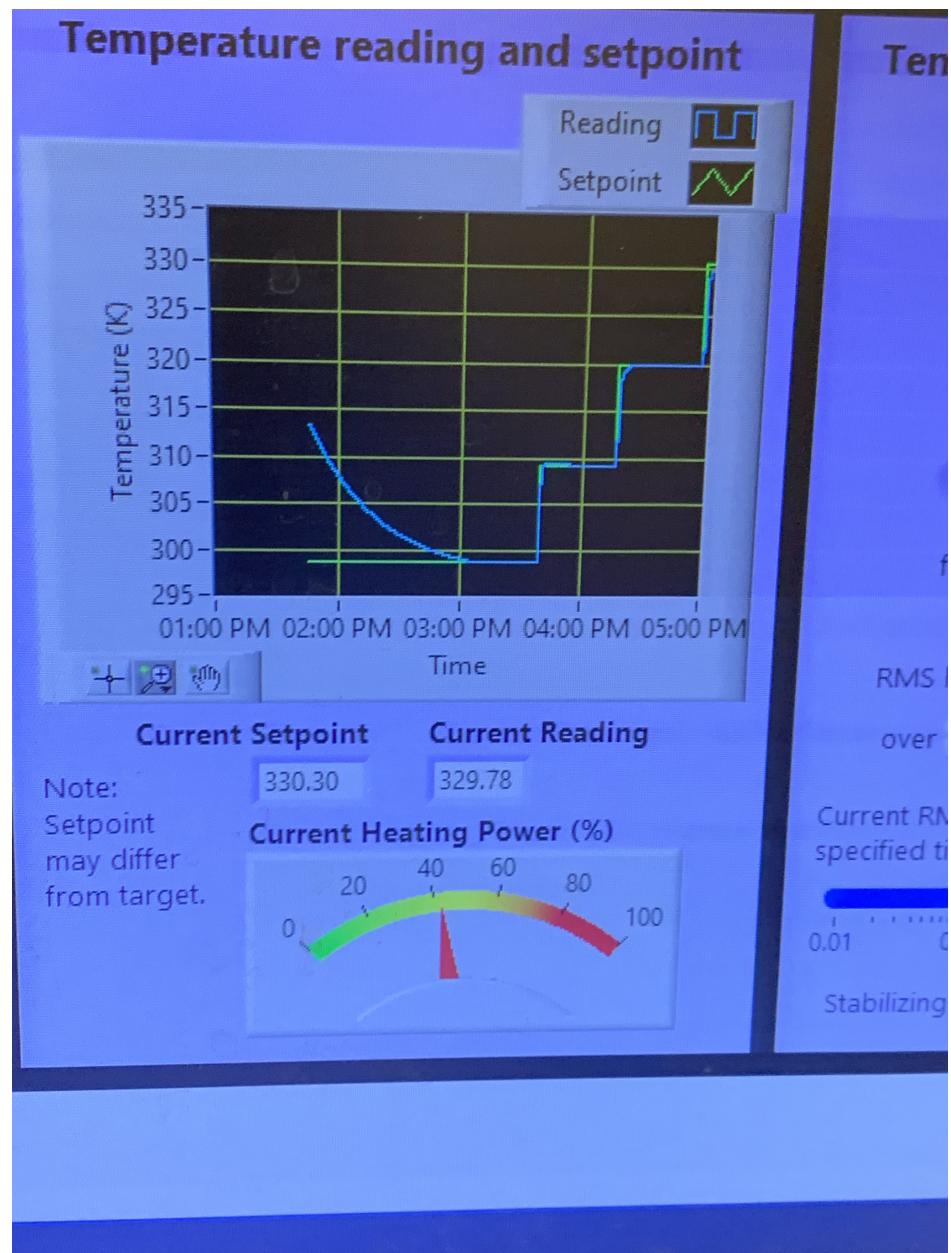


Figure 6: LabVIEW program for operating cryostat

3 Microscopy

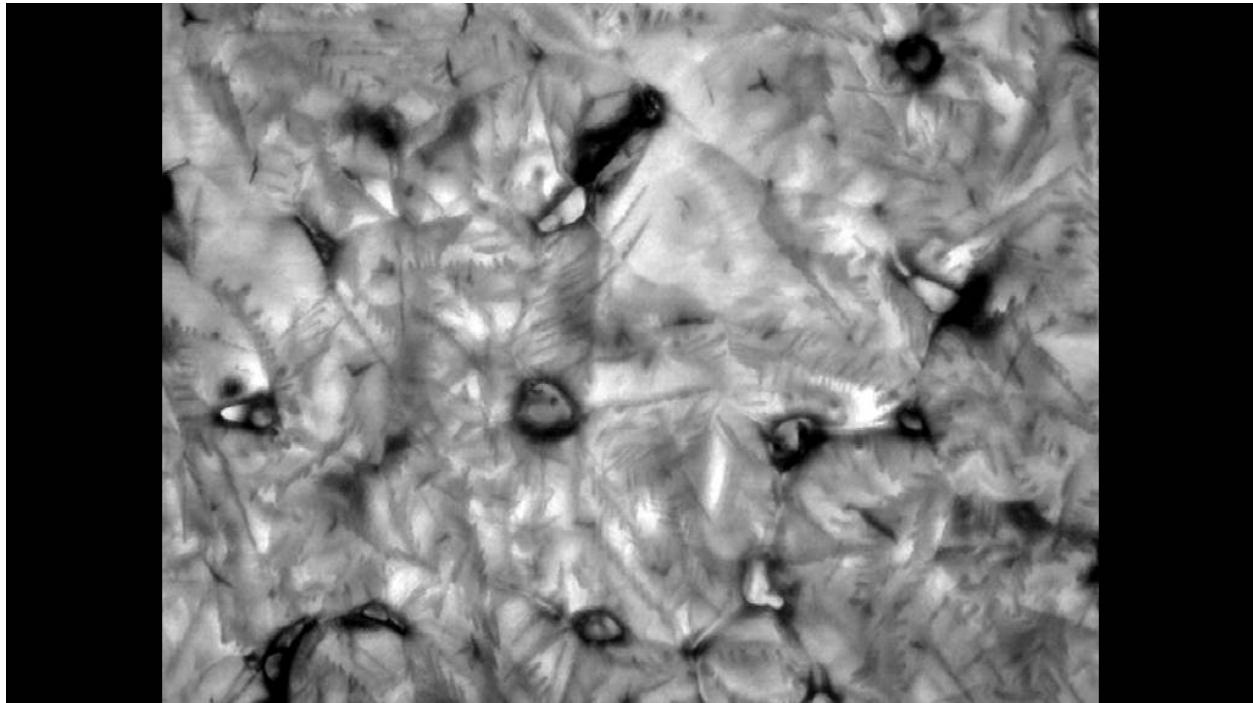


Figure 7: Optical microscope image of polyethylene oxide crystalline spherulites

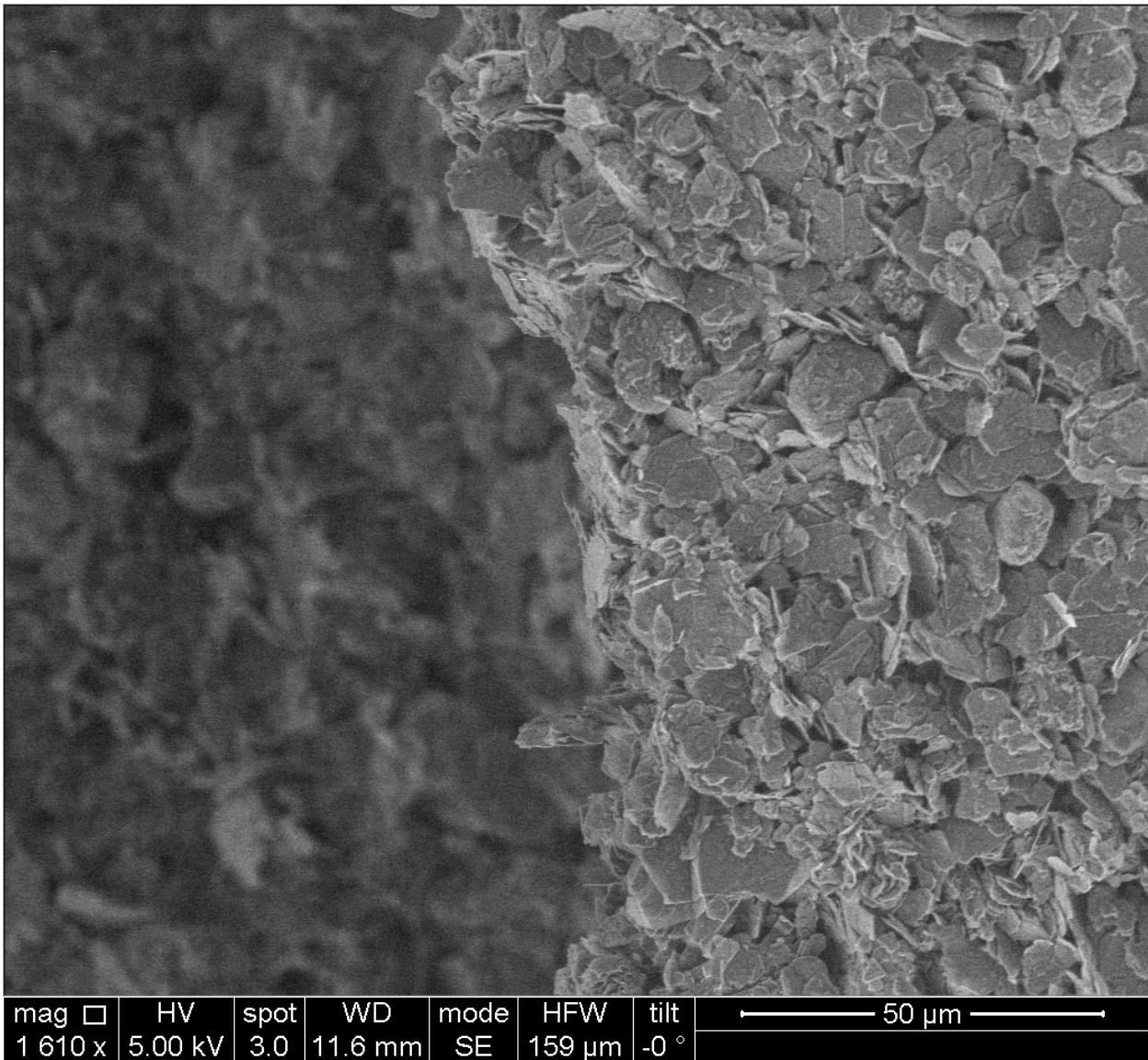


Figure 8: SEM image of high-BN content film