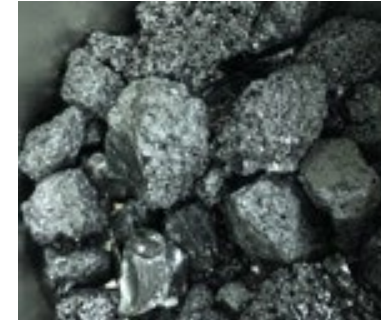


Coal to Graphite for Batteries

COAL to GRAPHITE



Liquefaction
& Filtration

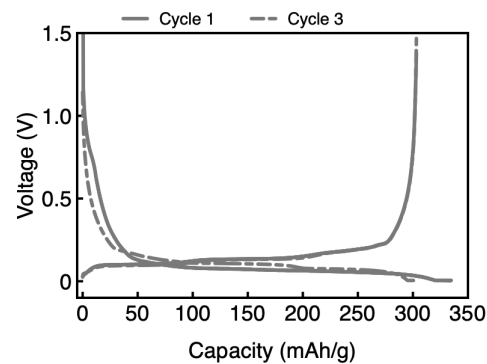
Coking
& Calcination

Milling-Sieving
& Graphitization

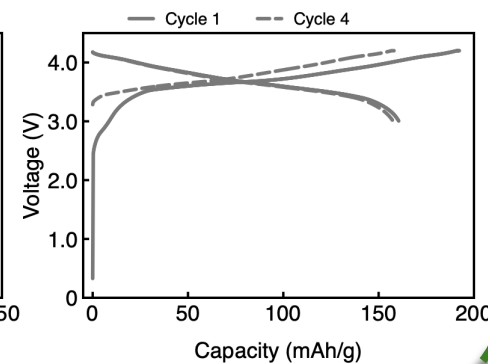
Li-ION CELL CYCLING



vs. Li metal



vs. NMC 811



CHARACTERIZATION

XRD & Raman
Tap Density & PSD
BET Surface Area
SEM & TEM
ICP-MS

We convert coal – one of the most abundant and affordable carbon source – to synthetic carbon (e.g. graphite and hard carbon) to create high-value, carbon negative electrodes for energy storage. On the front end, our research focuses to increase the efficiency, and yield of the processes to make graphite. On the application side, we are focused on understanding how the microstructure of the active material – dependent on the precursor and high-temperature treatment – affects the electrochemical performance. Our dry lab is fully equipped for the fabrication and testing of both coin and pouch cells.