Materials Science & Engineering Graduate Seminar

Wednesday, February 19, 2020, 4:10-5:00 PM, FASB 295

Zongliang Zhang

Finding a System for Efficient Lithium Isotope Separation with Diffusion and Electrochemical Migration

Lithium isotopes are significant strategic resources that are in high demand in the nuclear power industry. A new Li isotope separation approach based on diffusion and electrochemical migration was proposed and studied with both experimental and numerical simulation methods. As predicted by the model simulation data, experimental research confirmed the excellent Li isotope separation effect with the electrochemical separation method proposed.

About the Speaker: Zongliang is a graduate student in Materials Science & Engineering. He has been working on modeling and simulation of the electrowinning process and on development of an electrochemical lithium isotope separation technique since he joined Prof. Michael Free's research group in 2016. He defended his Ph.D. dissertation in January and will graduate this Spring Semester.