## **Sifting Lithium: A Reusable LTO Ion Sieve System** An ion sieve system of lithium titanate spinel oxide (LTO) on polyacrylamide media adsorbs Li+ ions in brine and is desorbed with HCl acid. John Staser / Ted Ground / staser@ohio.edu **100** nm 1 nm Crosslinked PAM-LTO Hydrogel **100** μm between 1 mg LTO; 1.35 mg crosslinked PAM