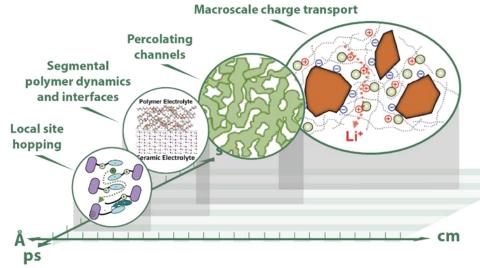
Fast and Cooperative Ion Transport in Polymer Based Materials (FaCT) Valentino R. Cooper (Oak Ridge National Laboratory); Class: 2022-2026

MISSION: To understand and control fast, correlated ion and proton transport at multiple length and time scales in polymer-based electrolytes.



https://www.ornl.gov/project/fast-and-cooperative-ion-transport-polymer-based-electrolytes-fact

RESEARCH PLAN

FaCT seeks to examine the scientific bottlenecks limiting conductivity in polymers. The center will build a predictive, data-driven, physics-based mechanistic model of ion and proton transport in polymers and polymer-ceramic composites to enable the targeted design of next-generation energy storage and conversion materials, such as lithium ion batteries and fuel cells.









