Materials Innovation through Solid State Chemistry

Research Topics

- Lithium-ion batteries, Sodium-ion batteries, Lithium-sulfur batteries
- Complex chalcogenides for thermoelectrics, super-ionic conductor and magnetic semiconductor
- Metal-Organic Frameworks (MOFs) for catalysis and gas storage
- Understanding structure-property-correlations

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Keywords

- Batteries; Electrochemistry; Thermoelectrics; Catalysis; Magnetism; Chalcogenides; Oxides; MOFs; Synthesis; X-ray crystallography

Representative publications