Materials Development for Next Generation Batteries

Batteries of the future will need to supply more energy. To make this happen, new materials and new concepts are required for alternative battery chemistries, such as lithium-sulfur and potassium-ion.

Competitive advantage

- Flexible materials development capacity
- Ability to work with and examine a range of battery chemistries
- Full structural, spectroscopic and electrochemical characterisation

Impact

- The next generation of batteries, providing a step change to current technology.

Successful applications

- Development of new cathodes for lithium-sulfur batteries and potassium-ion batteries.

Capabilities and facilities

- Materials synthesis
- Access to key analytical techniques such as solid-state NMR, operando X-ray and neutron diffraction, surface analysis, and electron microscopy

More Information

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