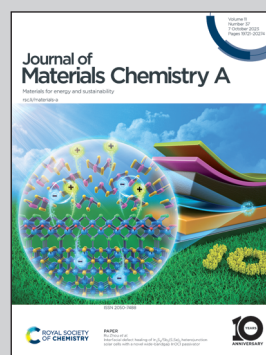


Showcasing research on directly following potassium intercalation into Prussian blue from Dr. Simon Kondrat's group at Loughborough University and from Beamline B18 at Diamond Light Source.

Direct monitoring of the potassium charge carrier in Prussian blue cathodes using potassium K-edge X-ray absorption spectroscopy

Direct analysis of the K^+ charge carrier in a Prussian Blue battery during intercalation has been studied using operando potassium K-edge XANES. The spectra of K^+ within different phases of Prussian blue and Prussian white is differentiated from the K^+ electrolyte. Our study shows the potential of directly monitoring alkali species by XANES in the in characterization of a host of important functional materials.

As featured in:



See Simon A. Kondrat *et al.*, *J. Mater. Chem. A*, 2023, **11**, 19900.