

# Thursday Evening, November 7, 2024

## Light Sources Enabled Science Mini-Symposium Room Central Hall - Session LS-ThP

### Light Sources Enabled Science Mini-Symposium Poster Session

#### LS-ThP-1 Near-Ambient Pressure XPS/Nexafs at Diamond Light Source, *Georg Held*, Harwell Science Campus, UK

The near-ambient-pressure beamline B07 ([Versatile Soft X-ray beamline](#)) at Diamond Light Source opened for users in July 2017. It features a design, where beamline and electron analyser meet in the same flange, such that experimental chambers and reaction cells can be exchanged relatively easily. The energy range 250 – 2800 eV allows accessing a wide range of core levels and is optimised for the electron kinetic energy range necessary to penetrate gas environments in the 10 mbar range. The differentially pumped beamline entrance and analyser enable measurements routinely up to 30 mbar. We will present the beamline design and performance and present results of experiments studying industrial and model catalysts in ambient-pressure conditions, demonstrating the research possibilities it offers.

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