



Highlighting research results from joint efforts by the groups of Dr Caliandro (Institute of Crystallography of CNR, Bari, Italy) and Prof. Milanesio (Università del Piemonte Orientale, Alessandria, Italy).

Improved multivariate analysis for fast and selective monitoring of structural dynamics by *in situ* X-ray powder diffraction

Automatic and prompt analysis of datasets acquired during *in situ* X-ray powder diffraction experiments allows the investigation of structural dynamics with unprecedented precision and selectivity. Algorithms to align diffraction peaks and extract relevant information from multiple measurements have been combined with the Modulated Enhanced Diffraction technique to enable the detection of atoms responding to *in situ* stimuli.

As featured in:



See Rocco Caliandro et al.,
Phys. Chem. Chem. Phys.,
2018, 20, 2175.