



**Showcasing research from Dr Aleksandar Milosavljević, Dr Alexandre Giuliani and coauthors performed at SOLEIL synchrotron, France.**

Oxygen K-shell spectroscopy of isolated progressively solvated peptide

This work investigates decomposition of an isolated progressively solvated neuropeptide, substance P, upon oxygen core-level resonant excitation by soft X-rays. Oxygen atoms in different chemical environments were probed selectively by fine-tuning the photon energy to be resonant with oxygen atoms in the peptide or the water cluster. Ionic fragmentation of the solvated complexes, observed with a linear ion trap mass spectrometer coupled to the beamline, showed how the excitation of the first water solvation shell influences the fragmentation of the peptide on a molecular level.

**As featured in:**



See Aleksandar R. Milosavljević, Alexandre Giuliani *et al.*, *Phys. Chem. Chem. Phys.*, 2020, **22**, 12909.