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Quick AS NEXAFS Tool (QANT): A program for NEXAFS loading and analysis developed at the Australian Synchrotron

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An analysis program for Near Edge X-ray Absorption Fine Structure (NEXAFS) spectra has been developed and implemented at the Soft X-ray beamline of the Australian Synchrotron. The program allows for rapid viewing of corrected data channels, including normalizations to a standard, double normalizations where the standard itself has an undesired spectral response, and background subtraction. The program performs compositional analysis and peak fitting and includes common calculations such as the average tilt angle of molecules with respect to the surface, and the determination of the complex index of refraction. These functionalities make common data manipulations done with NEXAFS data quick and straightforward. It greatly increases the throughput of NEXAFS analysis, allowing routine analysis to occur as data is collected.

Keywords

NEXAFS, Absorption Spectroscopy, instant analysis, peak fitting, compositional analysis, normalization

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