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XAFS as a tool to obtain chemical states and local structures

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X-ray Absorption Fine Structure (XAFS) is one of the most widely used methods at synchrotron facilities. XAFS is a suitable nondestructive method to observe chemical states elements and local structures around elements of interest in not only crystalline or solid but also amorphous or liquid samples. From a crystallographic point of view, If we have crystalline samples, it's good to perform XRD experiments to obtain information on crystal structures. When we are, however, interested in local structures of a certain element in a sample, XAFS can be a powerful tool. In other words, XAFS can provide complementary information to XRD. We would like to share some XAFS studies.

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