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BIO AND NANO MATERIALS DICHROIC STUDY BY X-RAY SPECTROMICROSCOPY

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Abstract content

Scanning Transmission X-Ray Microscopy (STXM) is a technique which has been rapidly advancing in the last decades. The study of soft and bio materials and the interaction between them and other matter is crucial nowadays, for both basic science and applied science. STXM provides a means to study the chemistry (molecular, interfacial, composition) of known or new materials at the nanoscale (< 30 nm) and with high spectral resolution. In this work the linear dichroism found in bio samples such as spider and cocoon silk as well as in carbon nanotubes is presented as an example of how STXM can provide qualitative and quantitative information about the composition of polymers and biomaterials.

Summary

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