

Open Peer Review on Qeios

X-Ray Photoelectron Spectroscopy

National Cancer Institute

Source

National Cancer Institute. <u>X-Ray Photoelectron Spectroscopy</u>. NCI Thesaurus. Code C78871

A quantitative spectroscopic technique that both determines the identities and percent composition of elements in a material and measures the elemental chemical and electronic states for a sample. The process, which occurs in a vacuum, involves the irradiation of the material of interest with a beam of aluminum or magnesium X-rays while measuring both the kinetic energy and number of electrons that are released from the outer surface.