

X-ray photoelectron spectroscopy: A new facility for surface science and chemical analysis.

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X-ray Photoelectron Spectroscopy (XPS) is a highly surface sensitive qualitative and quantitative chemical analysis technique that can provide unique information regarding the electronic properties and the surface composition of complex conductive and/or insulating materials.

Here, we will present the new XPS system installed at CNR-ISOF, a new facility in Bologna and Ferrara provinces. After a rapid overview, the potentiality of the technique as surface research tool will be discussed through issues and examples. In particular, we will highlighting how XPS can be fruitful used in a wide range of systems and disciplines such as coatings, catalysis, biomaterials, etc.

