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Influence of metal surface structure on the anisotropic XPS

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Keywords

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Abstract

The intensive distribution of photoelectrons as a function of X-ray beam with variable angle of incidence was investigated. Diffraction caused by the structure of surface was observed in the following metal samples: Al with face-centered cube, Ta and W with body-centered cubes. No effect was observed in Fe and Cu samples. The effect is closely related to the anode high voltages and X-ray energy. There was a range of threshold values in which the surface structure effects could be defined in experimental high voltages of anode. The possible mechanism of this effect was discussed.



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