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monochromatic Al K α non-monochromatic UPS capability C60 ion gun Side chamber ... XPS spectra - ... P.E. Sobol and K.D. Bomben, Handbook of X-ray Photoelectron Spectroscopy. Physical Electronics Inc., Eden Prairie (1995). 4. G. Beamson and D. Briggs, High Resolution XPS of Organic Polymers- The Scientia ESCA 300 Database. John Wiley & Sons ...

X-Ray Photoelectron Spectroscopy XPS

XPS Spectra, Databases, Spectra and Application Notes, Handbooks of Monochromatic XPS Spectra - Fully Annotated, PDF of Volumes 1 and 2, B.V.Crist, published by XPS International LLC, 2005, Mountain View, CA, USA; Handbooks of Monochromatic XPS Spectra, Volumes 1-5, B.V.Crist, published by XPS International LLC, 2004, Mountain View, CA, USA

X-ray photoelectron spectroscopy - Wikipedia

X-Ray Photoelectron Spectroscopy. XPS is a surface chemical analysis technique that can be used to analyze the surface chemistry of a material in its "as received" state, or after some treatment, for example, fracturing, cutting, or scraping in air or UHV exposure, ion beam etching to clean off some of the surface contamination, exposure to heat to study the changes due to heating ...

X-Ray Photoelectron Spectroscopy - an overview ...

This perturbation has been specifically identified thorough the observation of differences between nickel oxide and its oxy/hydroxide spectra . 2. Experimental. XPS analyses were carried out with a Kratos Axis Ultra spectrometer using a monochromatic Al K α source (15 mA, 14 kV).

Resolving surface chemical states in XPS analysis of first ...

The NIST XPS Database gives access to energies of many photoelectron and Auger-electron spectral lines. The database contains over 29,000 line positions, chemical shifts, doublet splittings, and energy separations of photoelectron and Auger-electron lines.

NIST X-ray Photoelectron Spectroscopy (XPS) Database, Data ...

Moulder, Handbook of X-ray Photoelectron Spectroscopy: A Reference Book of Standard Spectra for Identification and Interpretation of XPS Data (Physical Electronics, Eden Prairie, MN, 1992). usually indicate that there are multiple chemical states that can correspond to the same BE and, at

the same time, they provide single BE for a unique ...

Practical guide for curve fitting in x-ray photoelectron ...

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Spectra of an incoherent lamp source when passed through a monochromator with a value of $P = 13.2$ nm/mm. Reducing the slit width from 760 μm (left) to 120 μm (right) results in an improved spectral resolution from 10.1 nm to 1.6 nm.

Diffraction Grating Physics - Newport

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XPS Spectra - Wikipedia

The differential XPS spectra of O 1s induced by CO₂ adsorption (Fig. 4c) can be deconvoluted into two O species, the chemically adsorbed CO₂ δ -species (531.1 eV) and physically adsorbed CO₂ ...

Atomically dispersed Ni(i) as the active site for ...

X-ray photoelectron spectroscopy (XPS) was performed on an AXIS Ultra DLD (Kratos Inc.) using a 150-W monochromatic Al K α (1486.6 eV) X-ray source at the Korea Basic Science Institute. High ...

Graphene quantum dots: structural integrity and oxygen ...

The XPS analyses were carried out with a Kratos Axis Supra spectrometer using a monochromatic Al K α source (10 mA, 15 kV). The instrument work function was calibrated to give a binding energy (BE) of 83.96 eV for the Au 4f_{7/2} line for metallic gold, and the spectrometer dispersion was adjusted to give a BE of 932.62 eV for the Cu 2p_{3/2} line ...

Impact of the Synthesis Method on the Conventional and ...

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To study chemical changes in the MAPbBr₃ layers fabricated with perovskite solutions of different stoichiometries, we conducted x-ray photoelectron spectroscopy (XPS). The survey spectra showed strong peaks of Br (~68 eV), Pb (~138 and 143 eV), C (~285 eV), and N (~413 eV); these results agree with values in previous reports (fig. S6A) (7, 25 ...

Overcoming the electroluminescence efficiency limitations ...

XPS involves irradiating samples with X-rays and measuring the kinetic energy and number of electrons emitted, yielding spectra that offer insight into chemical composition (formula) and the chemical/electronic state of the elements [161 , 345] XPS has been applied for a variety of different melanins and reasons, showing the presence of ...

Melanins as Sustainable Resources for Advanced ...

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