

Photoelectron Spectroscopy (PES) **ANSWER KEY**

1. In a photoelectron spectrum, photons of 165.7 MJ/mol strike atoms of an unknown element. If the kinetic energy of the ejected electrons is 25.4 MJ/mol, what is the ionization energy of the element?

$$IE = \text{Energy of Photons} - KE \text{ of electrons} = 165.7 \text{ MJ/mol} - 25.4 \text{ MJ/mol} = 140.3 \text{ MJ/mol}$$

2. What determines the position and the height (intensity) of each peak in a photoelectron spectrum?

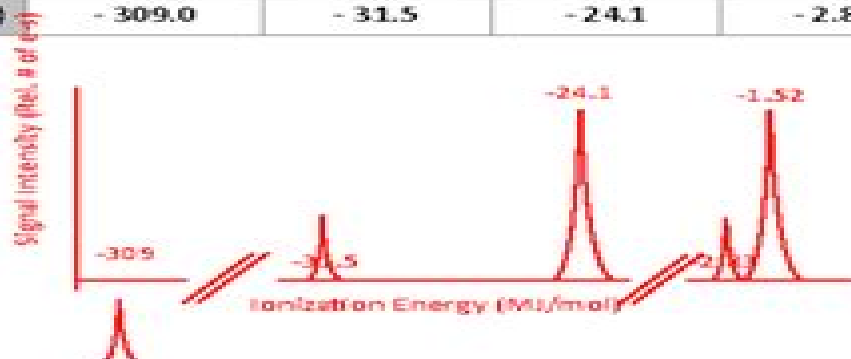
Position = Ionization Energy, height = relative number of electrons

3. Why is the distance of the energy level from the nucleus important in determining the corresponding peak position in the photoelectron spectrum?

When electrons are further from the nucleus, the interactions (Coulombic attractions) between the electrons and nucleus are weaker, so less energy is needed to remove them.

4. Based on the information provided below, draw a photoelectron spectrum for argon. Indicate the relative intensities and positions of all peaks.

e- conf	1s ²	2s ²	2p ⁶	3s ²	3p ⁶
IE (MJ/mol)	-309.0	-31.5	-24.1	-2.83	-1.52



5. Identify the element which produced the photoelectron spectrum shown below. Briefly explain your reasoning. Label each peak with the portion of the electron configuration that it represents.

Photoelectron Spectroscopy Answer Key

Neil D. Jespersen, Pamela Kerrigan



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is the ideal course companion for the duration of a student's degree. The authors have drawn upon their extensive teaching and research experience in updating this established text; the sixth edition retains the much-praised clarity of style and layout from previous editions while offering an enhanced Frontiers section. Exciting new applications of inorganic chemistry have been added to this section in particular relating to materials chemistry and medicine. This edition also sees a greater use of learning features to provide students with all the support they need for their studies. Providing comprehensive coverage of inorganic chemistry while placing it in context, this text will enable the reader to fully master this important subject.

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Shriver and Atkins' Inorganic Chemistry Peter Atkins, 2010. Inorganic Chemistry fifth edition represents an integral part of a student's chemistry education. Basic chemical principles are set out clearly in Foundations and are fully developed throughout the text, culminating in the cutting-edge research topics of the Frontiers which illustrate the dynamic nature of inorganic chemistry.

Forensic Science UGC NET Question Bank Chapterwise Assistant Professor and Lecturer Exams Mocktime Publication, 1988. Forensic Science UGC NET Question Bank Chapterwise Assistant Professor and Lecturer Exams

Ionization of Solids by Heavy Particles Raul A. Baragiola, 2012-12-06. This book collects the papers presented at the NATO Advanced Research Workshop on Ionization of Solids by Heavy Particles held in Giardini Naxos Taormina, Italy, on June 1-5, 1992. The meeting was the first to gather scientists to discuss the physics of electron emission and other ionization effects occurring during the interaction of heavy particles with condensed matter. The central problem in the field is how to use observations of electron emission and final radiation damage to understand what happens inside the solid, like excitation mechanisms, the propagation of the electronic excitation along different pathways and surface effects. The ARW began with a brief survey of the field, stressing the unknowns. It was pointed out that ionization theories can only address the very particular case of weak perturbations. For this problem, this meant high-speed, low-charged projectiles; a perturbation treatment of interactions with slow, highly charged ions was later presented. Only semi-empirical models exist for velocities lower than the Fermi velocity in the solid, which can be used to predict kinetic electron emission yields. These models, however, do not address the basic questions about the mechanisms for electron excitation, transport and escape through the surface layer.

Materials Modelling Using Density Functional Theory Feliciano Giustino, 2014. The book explains the fundamental ideas of density functional theory and how this theory can be used as a powerful method for explaining and even predicting the properties of materials with stunning accuracy.

Implant Surfaces and their Biological and Clinical Impact Ann Wennerberg, Tomas Albrektsson, Ryo Jimbo, 2015-01-05. This book provides the reader with the knowledge required in order to understand the chemical, physical, mechanical and topographical aspects of implant surfaces as well as their impact on the biological response. Common ways to

modify implant surfaces are described and methods for the evaluation of surface properties are presented in an easy to read style Experimental results that have contributed to surface modifications relevant for commercial available implants are presented with emphasis on in vivo and clinical studies While the focus is primarily on surface modifications at the micrometer and nanometer levels alterations at the millimeter level are also covered including thread designs and their possible influence on stress distribution In addition it is analyzed how surface alterations have changed the clinical long term results for certain groups of patients

Angle-Resolved Photoemission S.D. Kevan, 1992-05-15 Angle resolved photoemission has become an indispensable tool for solid state and surface physicists and chemists This book covers the underlying phenomenology of the technique reviews its application to existing problems and discusses future applications The book is particularly timely given the significant improvements in experimental and theoretical methodology which have recently been or soon will be attained namely ultrahigh resolution studies using improved sources of synchrotron radiation quasiparticle interpretation of measured dispersion relations and spectra in situ growth of novel materials etc The technique has been applied predominantly to understand materials for which the one electron paradigm is a reasonable approximation Most chapters discuss this type of experiment 2D and 3D states in metals and semiconductors extrinsic states induced by adsorption etc Applications of the technique to materials where electron correlation plays a comparable role to that of solid state hybridization ferro and antiferromagnets high T_c superconductors etc are rapidly growing in popularity These areas are also discussed and a foundation is laid for further experiments in this direction Almost all chapters contain comprehensive bibliographies and compendia of systems studied The book has an extensive index which cross references applications and systems studied

Proceedings of the Third International Symposium on Ceramic Sensors Harlan U.

Anderson, Meilin Liu, Noboru Yamazoe, 1997

Shreir's Corrosion, 2009-02-27 This four volume reference work builds upon the success of past editions of Elsevier's Corrosion title by Shreir Jarman and Burstein covering the range of innovations and applications that have emerged in the years since its publication Developed in partnership with experts from the Corrosion and Protection Centre at the University of Manchester Shreir's Corrosion meets the research and productivity needs of engineers consultants and researchers alike Incorporates coverage of all aspects of the corrosion phenomenon from the science behind corrosion of metallic and non metallic materials in liquids and gases to the management of corrosion in specific industries and applications Features cutting edge topics such as medical applications metal matrix composites and corrosion modeling Covers the benefits and limitations of techniques from scanning probes to electrochemical noise and impedance spectroscopy

Key Engineering Materials, 1986

Nanotechnology in Catalysis 3 Bing Zhou, Scott Han, Robert Raja, Gabor A. Somorjai, 2007-09-05 This volume continues the tradition formed in Nanotechnology in Catalysis 1 and 2 As with those books this one is based upon an ACS symposium Some of the most illustrious names in heterogeneous catalysis are among the contributors The book covers Design synthesis and control of catalysts at nanoscale understanding of

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