

## 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?

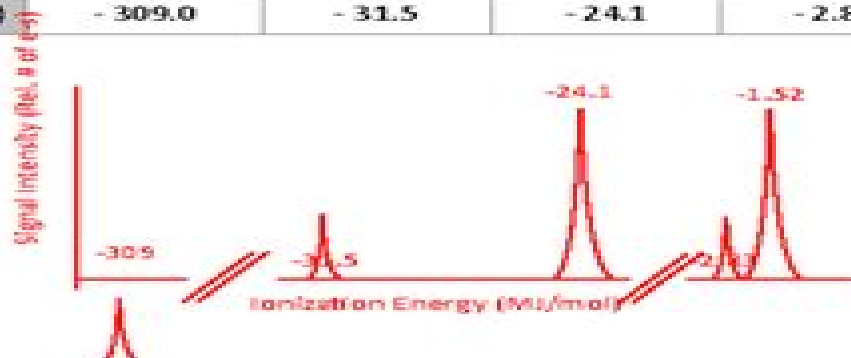
**Position = Ionization Energy, height = relative number of electrons**

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 <sup>2</sup>	2s <sup>2</sup>	2p <sup>6</sup>	3s <sup>2</sup>	3p <sup>6</sup>
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 Activity With Answer Key

**M. Shao, G. Brisard**



## Photoelectron Spectroscopy Activity With Answer Key:

**QuaSAR, Quantitative Structure Activity Relationships of Analgesics, Narcotic Antagonists, and Hallucinogens**,1978 Energy Research Abstracts ,1989 **Grants and Awards for the Fiscal Year Ended ...** National Science Foundation (U.S.),1977 **Springer Handbook of Inorganic Photochemistry** Detlef Bahnemann,Antonio Otavio T. Patrocinio,2022-06-25 The handbook comprehensively covers the field of inorganic photochemistry from the fundamentals to the main applications The first section of the book describes the historical development of inorganic photochemistry along with the fundamentals related to this multidisciplinary scientific field The main experimental techniques employed in state of art studies are described in detail in the second section followed by a third section including theoretical investigations in the field In the next three sections the photophysical and photochemical properties of coordination compounds supramolecular systems and inorganic semiconductors are summarized by experts on these materials Finally the application of photoactive inorganic compounds in key sectors of our society is highlighted The sections cover applications in bioimaging and sensing drug delivery and cancer therapy solar energy conversion to electricity and fuels organic synthesis environmental remediation and optoelectronics among others The chapters provide a concise overview of the main achievements in the recent years and highlight the challenges for future research This handbook offers a unique compilation for practitioners of inorganic photochemistry in both industry and academia *Handbook of X-ray and Ultraviolet Photoelectron Spectroscopy* David Briggs,1977 **Polymeric Materials with Antimicrobial Activity** Alexandra Muñoz-Bonilla,María Cerrada,Marta Fernández-García,2014 A comprehensive overview of different antimicrobial polymeric materials their antimicrobial action modes and applications NBS Publications Newsletter ,1978 A newsletter for librarians documentalists and science information specialists **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards,1977 *Journal of Research of the National Bureau of Standards* ,1978 **iSensor and iMedicine for human health** Yan Zhang,Dejin Zang,Chengchao Chu,Huanshun Yin,Laurent Ruhlmann,2022-12-29 **Electrocatalysis 8** M. Shao,G. Brisard,2016-09-21 **Oxygen or Hydrogen Evolution Catalysis for Water Electrolysis 4** H. Xu,K. E. Ayers,P. J. Kulesza,G. Wu,2018-05-04 Energy Research Abstracts ,1988 **Women in Science: Materials** Maria Chiara Bignozzi,Patricia Krawczak,Emilia Morallon,Ming Xu,Jacqueline Anne Johnson,2021-07-01 The Frontiers in Materials Editorial Office team are delighted to present the inaugural Women in Science Materials article collection showcasing the high quality work of women in science across the breadth of materials science and engineering All researchers featured within this collection were individually nominated by the Topic Editors in recognition of their status as leading academics who have great potential to influence the future directions of their respective fields The work presented here highlights the diversity of research performed across the entire breadth of the materials science and engineering field and presents advances in theory experimentation and methodology with applications for solving compelling problems This Editorial

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