

Chemistry: Atoms First 2e
20: Nuclear Chemistry
20.2: Nuclear Equations

11. Write a brief description or definition of each of the following:

- (a) nucleon
- (b) α particle
- (c) β particle
- (d) positron
- (e) γ ray
- (f) nuclide
- (g) mass number
- (h) atomic number

Solution

(a) A nucleon is any particle contained in the nucleus of the atom, so it can refer to protons and neutrons. (b) An α particle is one product of natural radioactivity and is the nucleus of a helium atom. (c) A β particle is a product of natural radioactivity and is a high-speed electron. (d) A positron is a particle with the same mass as an electron but with a positive charge. (e) Gamma rays compose electromagnetic radiation of high energy and short wavelength. (f) Nuclide is a term used when referring to a single type of nucleus. (g) The mass number is the sum of the number of protons and the number of neutrons in an element. (h) The atomic number is the number of protons in the nucleus of an element.

13. Complete each of the following equations by adding the missing species:

- (a) ${}_{13}^{27}\text{Al} + {}_2^4\text{He} \longrightarrow ? + {}_0^1\text{n}$
- (b) ${}_{94}^{240}\text{Pu} + ? \longrightarrow {}_{96}^{242}\text{Cm} + {}_0^1\text{n}$
- (c) ${}_{92}^{235}\text{U} \longrightarrow ? + {}_{55}^{135}\text{Cs} + 4{}_0^1\text{n}$
- (d) ${}_{92}^{235}\text{U} \longrightarrow ? + {}_{55}^{135}\text{Cs} + 4{}_0^1\text{n}$

Solution

- (a) ${}_{13}^{27}\text{Al} + {}_2^4\text{He} \longrightarrow {}_{15}^{31}\text{P} + {}_0^1\text{n}$; (b) ${}_{94}^{240}\text{Pu} + {}_0^1\text{n} \longrightarrow {}_{96}^{242}\text{Cm} + {}_0^1\text{n}$; (c) ${}_{92}^{235}\text{U} + {}_2^4\text{He} \longrightarrow {}_{94}^{239}\text{Pu} + {}_0^1\text{n}$; (d) ${}_{92}^{235}\text{U} \longrightarrow {}_{55}^{135}\text{Cs} + {}_{37}^{90}\text{Rb} + 4{}_0^1\text{n}$

15. Write a balanced nuclear equation for each of the following nuclear reactions:

- (a) the production of ${}^{17}\text{O}$ from ${}^{14}\text{N}$ by α particle bombardment
- (b) the production of ${}^{14}\text{C}$ from ${}^{14}\text{N}$ by neutron bombardment
- (c) the production of ${}^{230}\text{Th}$ from ${}^{232}\text{Th}$ by neutron bombardment
- (d) the production of ${}^{239}\text{U}$ from ${}^{238}\text{U}$ by ${}^3_1\text{H}$ bombardment

Solution

- (a) ${}^{14}_7\text{N} + {}^4_2\text{He} \longrightarrow {}^{17}_8\text{O} + {}^1_1\text{H}$; (b) ${}^{14}_7\text{N} + {}^1_0\text{n} \longrightarrow {}^{14}_6\text{C} + {}^1_1\text{H}$; (c) ${}^{232}_{90}\text{Th} + {}^1_0\text{n} \longrightarrow {}^{233}_{90}\text{Th}$; (d) ${}^{238}_{92}\text{U} + {}^3_1\text{H} \longrightarrow {}^{239}_{93}\text{Np} + {}^0_{-1}\text{e}$

17. The mass of the atom ${}^{19}\text{F}$ is 18.99840 amu.

- (a) Calculate its binding energy per atom in millions of electron volts.
- (b) Calculate its binding energy per nucleon.

Solution

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Padhraic Smyth



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Modern Nuclear Chemistry Walter D. Loveland, David J. Morrissey, Glenn T. Seaborg, 2017-04-05 Written by established experts in the field this book features in depth discussions of proven scientific principles current trends and applications of nuclear chemistry to the sciences and engineering Provides up to date coverage of the latest research and examines the theoretical and practical aspects of nuclear and radiochemistry Presents the basic physical principles of nuclear and radiochemistry in a succinct fashion requiring no basic knowledge of quantum mechanics Adds discussion of math tools and simulations to demonstrate various phenomena new chapters on Nuclear Medicine Nuclear Forensics and Particle Physics and updates to all other chapters Includes additional in chapter sample problems with solutions to help students Reviews of 1st edition an authoritative comprehensive but succinct state of the art textbook The Chemical Educator and an excellent resource for libraries and laboratories supporting programs requiring familiarity with nuclear processes CHOICE

Nuclear and Radiochemistry Jens-Volker Kratz, 2022-01-04 Nuclear and Radiochemistry The leading resource for anyone looking for an accessible and authoritative introduction to nuclear and radiochemistry In the newly revised Fourth Edition of Nuclear and Radiochemistry Fundamentals and Applications distinguished chemist Jens Volker Kratz delivers a two volume handbook that has become the gold standard in teaching and learning nuclear and radiochemistry The books cover the theory and fundamentals of the subject before moving on the technical side of nuclear chemistry with coverage of nuclear energy nuclear reactors and radionuclides in the life sciences This latest edition discusses the details and impact of the Chernobyl and Fukushima nuclear disasters as well as new research facilities including FAIR and HIM It also incorporates new methods for target preparation and new processes for nuclear fuel recycling like EURO GANEX Finally the volumes extensively cover environmental technological advances and the effects of radioactivity on the environment Readers will also find An accessible and thorough introduction to the fundamental concepts of nuclear physics and chemistry including atomic processes classical mechanics relativistic mechanics and the Heisenberg Uncertainty Principle Comprehensive explorations of radioactivity in nature radioelements radioisotopes and their atomic masses and other physical properties of nuclei Practical discussions of the nuclear force nuclear structure decay modes radioactive decay kinetics and nuclear radiation In depth examinations of the statistical considerations relevant to radioactivity measurements Written for practicing nuclear chemists and atomic physicists Nuclear and Radiochemistry Fundamentals and Applications is also an indispensable resource for nuclear physicians power engineers and professionals working in the nuclear industry

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X-Ray Absorption and X-Ray Emission

Spectroscopy, 2 Volume Set Jeroen A. van Bokhoven, Carlo Lamberti, 2016-03-21 X Ray Absorption and X ray Emission Spectroscopy Theory and Applications During the last two decades remarkable and often spectacular progress has been

made in the methodological and instrumental aspects of x ray absorption and emission spectroscopy This progress includes considerable technological improvements in the design and production of detectors especially with the development and expansion of large scale synchrotron reactors All this has resulted in improved analytical performance and new applications as well as in the perspective of a dramatic enhancement in the potential of x ray based analysis techniques for the near future This comprehensive two volume treatise features articles that explain the phenomena and describe examples of X ray absorption and emission applications in several fields including chemistry biochemistry catalysis amorphous and liquid systems synchrotron radiation and surface phenomena Contributors explain the underlying theory how to set up X ray absorption experiments and how to analyze the details of the resulting spectra X Ray Absorption and X ray Emission Spectroscopy Theory and Applications Combines the theory instrumentation and applications of x ray absorption and emission spectroscopies which offer unique diagnostics to study almost any object in the Universe Is the go to reference book in the subject for all researchers across multi disciplines since intense beams from modern sources have revolutionized x ray science in recent years Is relevant to students postdocurates and researchers working on x rays and related synchrotron sources and applications in materials physics medicine environment geology and biomedical materials **Integrated**

Waste Biorefineries: Achieving Sustainable Development Goals, 2nd edition Mohammad Rehan, Muhammad Amjad, Ala'A Al-Muhtaseb, Muhammad Abdul Qyyum, Konstantinos Moustakas, Su Shiung Lam, Abdul-Sattar Nizami, Meisam Tabatabaei, Imtiaz Ali, Arshid Mahmood Ali, Muhammad Farooq, 2024-01-11 The United Nations Sustainable Development Goals SDGs are designed to revolutionize societies to prepare for the future challenges However the practical implementation of such goals in many domains is are yet to be achieved despite of unique essence Sustainable energy production aligned with SDG 7 clean water and sanitation aligned with SDG 6 sustainable waste services aligned with SDG 11 and mitigating climate change impacts aligned with SDG 13 have been the prime focus of SDGs Moreover much attention is being paid to research and development activities on waste prevention reduction recycling and reuse to achieve responsible consumption and production aligned with SDG 12 Waste biorefineries have emerged as a sustainable environmental management solution to achieve not only the aforementioned SDGs but also to accomplish no poverty aligned with SDG 1 and zero hunger aligned with SDG 2 and to maintain well being and good health aligned with SDG 3 and decent work and economic growth aligned with SDG 8 worldwide This is true because integrated waste biorefineries can efficiently and sustainably produce fuels heat energy power and multiple value added products and chemicals It can further facilitate the transition from linear to circular economies and mitigate the major challenges faced including environmental pollution climate change and adverse effects on public health This Research Topic will focus on different types of waste biorefineries current status practical implications optimization of waste to energy technologies detailed life assessment studies and future opportunities with a vision to achieve SDGs in the areas of sustainable energy generation waste management circular

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