

CHEM 151 – Quiz #4
Thermo, Redox, and Electrochem
 December 4, 2018

1. Consider this unbalanced reaction at 25 °C:

Zinc solid reacts with a solution containing nitrate ion, to form zinc ion and nitrogen monoxide gas.

The standard reduction potentials (E°) are:

Nitrogen half-reaction: $+0.957\text{ V}$ red
 Zinc half-reaction: -0.762 V ox

a. (2 pts) Using chemical formulas, write the unbalanced reaction given above.



b. (5 pts) Balance the reaction in an acidic solution using the half-reaction method practiced in class (include phases in your final balanced reaction).



c. (3 pts) i) assign oxidation numbers to all atoms in your final balanced reaction, ii) calculate the change of oxidation state for the two atoms that underwent change, and identify if each atom underwent oxidation or reduction, and iii) label the oxidizing and reducing agents (from the reactants only).

i) see above

ii) $\text{Zn} \xrightarrow{\text{iii)}} 0 \rightarrow +2$, oxidation $\Rightarrow \text{Zn(s)} = \text{reducing agent}$

$\text{N} \xrightarrow{\text{iii)}} +5 \rightarrow +2$, reduction $\Rightarrow \text{NO}_3^-(\text{aq}) = \text{oxidizing agent}$

Chemistry 151 Lab Answers

Sara McCubbins, Angela Codron



Chemistry 151 Lab Answers:

Forensics in Chemistry Sara McCubbins, Angela Codron, 2012 Forensics seems to have the unique ability to maintain student interest and promote content learning I still have students approach me from past years and ask about the forensics case and specific characters from the story I have never had a student come back to me and comment on that unit with the multiple choice test at the end from the Introduction to Forensics in Chemistry The Murder of Kirsten K How did Kirsten K's body wind up at the bottom of a lake and what do wedding cake ingredients soil samples radioactive decay bone age blood stains bullet matching and drug lab evidence reveal about whodunit These mysteries are at the core of this teacher resource book which meets the unique needs of high school chemistry classes in a highly memorable way The book makes forensic evidence the foundation of a series of eight hands on week long labs As you weave the labs throughout the year and students solve the case the narrative provides vivid lessons in why chemistry concepts are relevant and how they connect All chapters include case information specific to each performance assessment and highlight the related national standards and chemistry content Chapters provide Teacher guides to help you set up Student performance assessments A suspect file to introduce the characters and new information about their relationships to the case Samples of student work that has been previously assessed and that serves as an answer key for you Grading rubrics Using Forensics in Chemistry as your guide you will gain the confidence to use inquiry based strategies and performance based assessments with a complex chemistry curriculum Your students may gain an interest in chemistry that rivals their fascination with Bones and CSI

The Impact of the Laboratory and Technology on Learning and Teaching Science K-16 Dennis W. Sunal, Emmett L. Wright, Cheryl Sundberg, 2008-02-01 The Impact of the Laboratory and Technology on K 12 Science Learning and Teaching examines the development use and influence of active laboratory experiences and the integration of technology in science teaching This examination involves the viewpoints of policymakers researchers and teachers that are expressed through research involving original documents interviews analysis and synthesis of the literature case studies narrative studies observations of teachers and students and assessment of student learning outcomes Volume 3 of the series Research in Science Education addresses the needs of various constituencies including teachers administrators higher education science and science education faculty policymakers governmental and professional agencies and the business community The guiding theme of this volume is the role of practical laboratory work and the use of technology in science learning and teaching K 16 The volume investigates issues and concerns related to this theme through various perspectives addressing design research professional practice and evaluation Beginning with definitions the historical evolution and policy guiding these learning experiences are explored from several viewpoints Effective design and implementation of laboratory work and technology experiences is examined for elementary and high school classrooms as well as for undergraduate science laboratories informal settings and science education courses and programs In general recent research provides evidence that students do benefit from inquirybased

laboratory and technology experiences that are integrated with classroom science curricula The impact and status of laboratory and technology experiences is addressed by exploring specific strategies in a variety of scientific fields and courses The chapters outline and describe in detail researchbased best practices for a variety of settings

Laboratory Exercises for Freshwater Ecology John E. Havel, 2016-03-17 Limnology stream ecology and wetland ecology all share an interdisciplinary perspective of inland aquatic habitats Scientists working in these fields explore the roles of geographic position physical and chemical properties and the other biota on the different kinds of plants and animals living in freshwaters How do these creatures interact with each other and with their physical environment In what ways have humans impacted aquatic habitats By what methods do freshwater ecologists study these environments With this new laboratory manual Havel provides a variety of accessible hands on exercises to illuminate key concepts in freshwater ecology These exercises include a mixture of field trips indoor laboratory exercises and experiments with some portions involving qualitative observations and others more quantitative With the help of this manual students will develop an appreciation for careful techniques used in the laboratory and in the field as well as an understanding of how to collect accurate field notes keep a well organized lab notebook and write clear scientific reports

Lab World, 1975

The Organic Chem Lab Survival Manual James W. Zubrick, 2020-02-05 Teaches students the basic techniques and equipment of the organic chemistry lab the updated new edition of the popular hands on guide The Organic Chem Lab Survival Manual helps students understand the basic techniques essential safety protocols and the standard instrumentation necessary for success in the laboratory Author James W Zubrick has been assisting students navigate organic chemistry labs for more than three decades explaining how to set up the laboratory make accurate measurements and perform safe and meaningful experiments This practical guide covers every essential area of lab knowledge from keeping detailed notes and interpreting handbooks to using equipment for chromatography and infrared spectroscopy Now in its eleventh edition this guide has been thoroughly updated to cover current laboratory practices instruments and techniques Focusing primarily on macroscale equipment and experiments chapters cover microscale jointware drying agents recrystallization distillation nuclear magnetic resonance and much more This popular textbook Familiarizes students with common lab instruments Provides guidance on basic lab skills and procedures Includes easy to follow diagrams and illustrations of lab experiments Features practical exercises and activities at the end of each chapter Provides real world examples of lab notes and instrument manuals The Organic Chem Lab Survival Manual A Student s Guide to Techniques 11th Edition is an essential resource for students new to the laboratory environment as well as those more experienced seeking to refresh their knowledge

America's Lab Report National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision, 2006-01-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do

they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished **Applications** ,1991-11-26 Applications *Ion Chromatography* ,1990-07-16 Ion Chromatography

Biology, Cultivation and Applications of Mushrooms Arun Arya,Katerina Rusevska,2022-03-17 The edited book consolidates information for profitable commercial cultivation of medicinal mushrooms The book suggests a large number of substrates to the growers for use in commercial cultivation of Mushrooms It also elucidates the conservation of wild endangered medicinal mushrooms Mushrooms are the fungal fruiting bodies which can be seen by naked eyes and collected by hands These are extremely heterogeneous organisms characterized by high levels of species diversity and are widespread in all environments Researches conducted by score of mycologists and biotechnologists have resulted in the continuous discovery of new species and the variability of environments where fungi can be harvested including air space the seabed The fields of applications are unfolding a panorama of uses in varied fields ranging from agriculture bioremediation forestry food cosmetics medical and in pharmaceutical sectors The book comprises of three parts first mentions their applications in Ayurvedic and traditional system of Chinese medicine for the cure of ailments The truffles are delicious while many others are recommended as cure in deadly diseases like cancer COVID 19 and HIV as well as memory and longevity enhancer Lentinus Ganoderma and Cordyceps are considered good as antioxidant and cure for inflammation Second part deals with their occurrence in different habitats and seasons and their biology Enzymes and mechanisms involved in biodegradation and anatomical details of rotting wood The third part brings about the need of mushroom technology in improving rural economy This book is a useful read for researchers and students in agriculture agronomy and researchers working on mushrooms

Highly Siderophile and Strongly Chalcophile Elements in High-Temperature Geochemistry and Cosmochemistry Jason Harvey,James Day,2016-03-07 Highly Siderophile and Strongly Chalcophile Elements in High Temperature Geochemistry and Cosmochemistry Volume 81 This RiMG Reviews in Mineralogy Geochemistry volume investigates the application of highly siderophile HSE and strongly chalcophile elements This volume has its origin in a short

course sponsored by the Mineralogical Society of America and the Geochemical Society held in San Diego California on the 11th and 12th December 2015 ahead of the American Geophysical Union's Fall Meeting which featured a session with the same title Topics in this volume include analytical methods and data quality experimental constraints applied to understanding HSE partitioning nucleosynthetic variations of siderophile and chalcophile elements HSE in the Earth Moon Mars and asteroidal bodies HSE and chalcophile elements in both cratonic and non cratonic mantle encompassing both sub continental and sub oceanic lithosphere the importance of the HSE for studying volcanic and magmatic processes and an appraisal of the importance of magmatic HSE ore formation in Earth's crust Highly siderophile and strongly chalcophile elements comprise Re Os Ir Ru Pt Rh Pd Au Te Se and S and are defined by their strong partitioning into the metallic phase but will also strongly partition into sulfide phases in the absence of metal The chemical properties of the HSE mean that they are excellent tracers of key processes in high temperature geochemistry and cosmochemistry having applications in virtually all areas of earth science A key aspect of the HSE is that three long lived geologically useful decay systems exist with the HSE as parent ^{107}Pd ^{107}Ag or parent daughter isotopes ^{187}Re ^{187}Os and ^{190}Pt ^{186}Os The material in this book is accessible for graduate students researchers and professionals with interests in the geochemistry and cosmochemistry of these elements geochronology magmatic ore bodies and the petrogenesis of platinum group minerals

This book delves into Chemistry 151 Lab Answers. Chemistry 151 Lab Answers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Chemistry 151 Lab Answers, encompassing both the fundamentals and more intricate discussions.

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