

Oxidation and Reduction

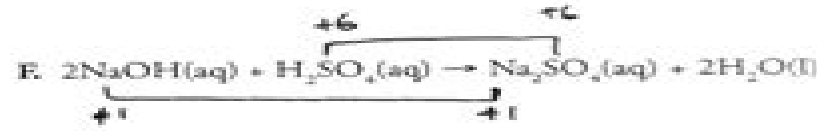
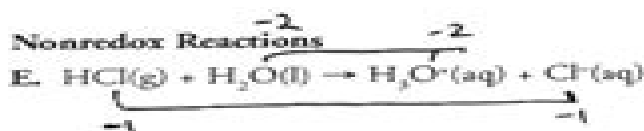
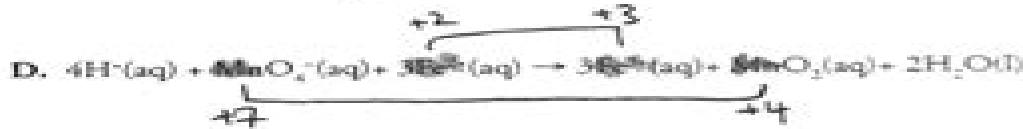
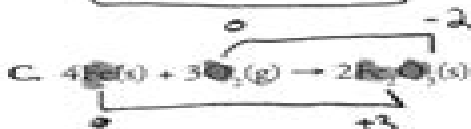
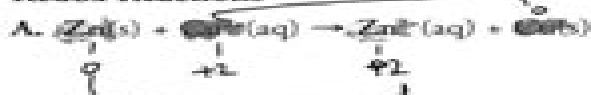
What happens when electrons are transferred in a chemical reaction?

Why?

Silver tarnishes when it comes in contact with sulfur compounds in the air. Copper gets coated in beautiful green patina as it ages. Metals rust or corrode in the presence of air and water. Minerals (ionic compounds) found in ore can be decomposed with the use of electricity to produce pure metals and nonmetals. All of these reactions are examples of oxidation and reduction, otherwise known as **redox** reactions. In this activity you will explore what is happening at the atomic level in redox reactions.

Model 1 – Redox Reactions

Redox Reactions



1. What two types of reactions are shown in Model 1?

Redox & Nonredox

2. Examine the redox and nonredox reactions in Model 1. Is/are there any feature(s) in the redox reactions that would allow you to identify them as redox reactions? If yes, use specific examples from Model 1 to support your answer.

Not necessarily

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Malika Ammam



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Chemistry Education in the ICT Age Minu Gupta Bhowon, Sabina Jhaumeer-Laulloo, Henri Li Kam Wah, Ponnadurai Ramasami, 2009-07-21 The 20 International Conference on Chemical Education 20 ICCE which had Chemistry in the ICT Age as the theme was held from 3 to 8 August 2008 at Le Meridien Hotel Pointe aux Piments in Mauritius With more than 200 participants from 40 countries the conference featured 140 oral and 50 poster presentations Participants of the 20 ICCE were invited to submit full papers and the latter were subjected to peer review The selected accepted papers are collected in this book of proceedings This book of proceedings encloses 39 presentations covering topics ranging from fundamental to applied chemistry such as Arts and Chemistry Education Biochemistry and Biotechnology Chemical Education for Development Chemistry at Secondary Level Chemistry at Tertiary Level Chemistry Teacher Education Chemistry and Society Chemistry Olympiad Context Oriented Chemistry ICT and Chemistry Education Green Chemistry Micro Scale Chemistry Modern Technologies in Chemistry Education Network for Chemistry and Chemical Engineering Education Public Understanding of Chemistry Research in Chemistry Education and Science Education at Elementary Level We would like to thank those who submitted the full papers and the reviewers for their timely help in assessing the papers for publication We would also like to pay a special tribute to all the sponsors of the 20 ICCE and in particular the Tertiary Education Commission <http://tec.intnet.mu> and the Organisation for the Prohibition of Chemical Weapons <http://www.opcw.org> for kindly agreeing to fund the publication of these proceedings

Redox Models in Chemistry Lise-Lotte Österlund, Margareta Ekborg, Anders Berg, 2010

Investigation Into the Role of Redox Reactions in Maillard Model Systems Luke John William Haffenden, 2007 The role of redox reactions in the formation of aroma volatiles colour and other non volatiles in the Maillard Reaction was investigated The electrochemical properties of individual reactants and Maillard model mixtures were monitored via ORP oxidation reduction potential and oxygen electrodes All models exhibited unique electrochemical activities represented by their corresponding ORP profiles Investigation into the redox potentials of several model systems demonstrated that the increased negative value of a redox potential is not necessarily correlated with its browning potential An optimal redox potential range where browning is favoured was found to represent a balance between carbonyl and hydroxyl moieties in the structure Adjustment of this redox potential by introducing reducing or oxidizing species can shift this balance resulting in modifications in browning capacities However it was concluded that there is a clear relationship between browning ability and reducing capacity of the model systems Furthermore a novel oxidative pyrolysis technique was developed to study the role of oxidative environment on the product distribution during pyrolysis and to investigate the mechanism of formation of non volatiles through ^{13}C and ^{15}N label incorporation Application of this technique to glucoselglycine model system have indicated that most non volatile Maillard reaction products can arise from glucose oxidation intermediates such as glucosone gluconic acid and deoxyglucosones To study the specific role of redox reactions in

the formation of non volatiles a post pyrolytic derivatization technique was developed and optimized Several non volatile end products were identified and mechanistically confirmed to involve oxidation and reduction reactions for their formation such as lactones hydroxylated benzenes and hydroxylated pyrazine The latter was identified and confirmed to be generated via the dimerization of glycine and subsequent oxidation In addition the formation of different volatiles such as pyrazole imidazole and oxazole was mechanistically confirmed to depend on redox reactions

Sustainable and Functional Redox Chemistry Shinsuke Inagi,2022-04-29 Mimicking nature s efficiency and sustainability in organic chemistry is a major goal for future chemists redox reactions are a key element in a variety of fields ranging from synthesis and catalysis to materials chemistry and analytical applications Sustainability is increasingly becoming a consideration in synthesis and functional chemistry and an essential element for the next generation of chemistry in academia and industry This book represents a compilation of the latest advancements in functional redox chemistry and demonstrates its importance in achieving a more sustainable future This book is an ideal companion for any postgraduate students or researchers interested in sustainability in academia and industry

Redox J. Schüring,H.D. Schulz,W.R. Fischer,J. Böttcher,W.H.M. Duijnisveld,2013-04-17 Few processes are as important for environmental geochemistry as the interplay between the oxidation and reduction of dissolved and solid species The knowledge of the redox conditions is most important to predict the geochemical behaviour of a great number of components the mobilities of which are directly or indirectly controlled by redox processes The understanding of the chemical mechanisms responsible for the establishment of measurable potentials is the major key for the evaluation and sensitive interpretation of data This book is suitable for advanced undergraduates as well as for all scientists dealing with the measurement and interpretation of redox conditions in the natural environment

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Experimental and Kinetic Modeling of Acid/base Redox Reactions Over Metal Oxide Catalysts University of Wisconsin,1990

Principles of Redox Reactions Malika Ammam,2018-03-05 As a teacher of physical chemistry I noticed that students even in advanced classes have difficulties in understanding the basics of redox chemistry In this Section 3 I attempted to discuss some fundamental principles related to redox processes by focusing on the species that might lose or gain electrons determination of the oxidation numbers or states of atoms in compounds and ways of balancing redox reactions To further clarify the discussed concepts numerous questions and problems with detailed answers are provided Most of these questions are formulated by students like you I believe that this Section 3 would greatly help students with levels varying from high school to advanced university classes

Redox Mohammed Awad Ali Khalid,2017-09-06 Redox reactions are central to the major element cycling many cell cycles many chemisorption and physisorption processes trace

element mobility from rocks and sediments toward wells aquifers trace element toxicity toward life forms and most remediation schemes including water treatments over the last three decades the field has attracted a lot of scientists and a great deal of researches has been done in redox chemistry This book provides a very broad overview of the state of the art of understanding redox processes which starts with giving a concise introduction that describes the origin historical background and the development of the redox definitions The book is organized into two sections that include ten chapters and introduces in Section 1 generalized electron balance theory and its applications in electrolytic redox systems redox active molecules and its applications in device memory fundamentals and applications of flow batteries and their integration into antirect current and donor acceptor titrations of displacement and electronic transference Section 2 introduces redox in biological processes including roles of reactive oxygen species in respiration metabolism and regulations and redox in physiological processes as redox sensitive TRP channels TRPA1 and TRPM2 All chapters are written by different authors with the exception of Chapter 1 Introduction This clearly reflects the broad range of topics that have been covered by experts in the field

A Better Way to Learn Redox Chemistry Part 1: Summarized Principles and Over 250 Answered Questions and Problems Malika Ammam, 2017-11-25 This short book part 1 summarizes some basics of redox chemistry electrochemistry in solution Each section of the book contains concise and clear referenced summaries of redox concepts Over 250 answered questions and problems are provided to further clarify the discussed principles

Redox Reactions in Glass Amalendu Paul, 1965

Redox - Principles and Advanced Applications, 19??

An Investigation Into the Kinetics of Redox Reactions Helen Dolores D'. Assis Fonseca, 1955

Redox Reactions for Group 5 Elements, Including Element 105, in Aqueous Solutions G. V. Ionova, Gesellschaft für Schwerionenforschung (Darmstadt), 1992

Biological Redox Reactions : Proceedings, Held November 29 - December 5, 1981, in Erice, Sicily, Italy Martin Blank, Giulio Milazzo, 1983

Redox Reactions in Polymeric Systems James R. Black, 2011

Redox Reactions on the Ring Oven Nuhaad E. Salibi, American University of Beirut. Faculty of Arts and Sciences. Department of Chemistry, 1968

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