

Modern Alchemy Selected Papers Of Glenn T Seaborg

**Barclay Kamb,Linda Pauling Kamb,Carl
Alexander Kamb,Peter Jeffress
Pauling,Linus Pauling Jr**

Modern Alchemy Selected Papers Of Glenn T Seaborg:

Modern Alchemy: Selected Papers Of Glenn T Seaborg Glenn T Seaborg, 1994-05-20 During his distinguished career spanning more than 50 years Nobel laureate Chemistry Glenn T Seaborg published over 500 works This volume puts together about 100 of his selected papers The papers are divided into five categories Category I consists of papers which detail the discovery of 10 transuranium elements and numerous heavy isotopes of special importance Category II papers describe the discovery of a number of isotopes which became the workhorses of nuclear medicine or found other applications Papers in Category III describe how the chemical properties of transuranium elements were originally determined how chemistry is applied in nuclear sciences and other chemical investigations including early work done with the great chemist G N Lewis Papers in Category IV cover radioactive decay chains and nuclear systematics Lastly papers in Category V illustrate how the powerful methods of chemistry are used to explain nuclear reactions in low intermediate and high energy nuclear physics

Across Conventional Lines: Selected Papers Of George A Olah (In 2 Volumes) George A Olah, G K Surya Prakash, 2003-01-29 In the course of his distinguished career spanning about half a century George A Olah winner of the 1994 Nobel Prize for Chemistry has been exceedingly prolific and has published more than 1000 scientific papers and 15 books and holds more than 100 patents This invaluable volume contains about 250 papers selected for their breadth and current importance

Oxidation Of Oxygen And Related Chemistry, The: Selected Papers Of Neil Bartlett Neil Bartlett, 2001-10-26 The selected papers in this invaluable volume are arranged in chapters each with an introductory essay The purpose of the arrangement is to illustrate the process of scientific discovery at work Neil Bartlett's field is that of powerful oxidizers The early chapters tell the story of the oxidation of the oxygen molecule and the discovery of xenon chemistry His work in noble gas chemistry is summarized Succeeding chapters show how metastable fluorides such as AgF_3 and NiF_4 came to be prepared at ordinary temperatures and pressures and how they have provided the most potent oxidizers and fluorinators ever prepared

Reason And Imagination: Reflections On Research In Organic Chemistry- Selected Papers Of Derek H R Barton Derek H R Barton, 1996-03-21 This book is about the recognition of new principles in Organic Chemistry It is also about the discovery and invention of Chemical Reactions In addition it deals with the determination of structure by chemical degradation during the epoch when physical methods were not well developed Also presented are new reagents and new types of functional groups never seen in chemistry before The overall aim of the collected papers is to show how thought can direct original research and to demonstrate how thought about old or new chemical facts can lead to originality This is further illuminated by commentaries which Prof Barton has written to accompany these papers

Frontier Orbitals And Reaction Paths: Selected Papers Of Kenichi Fukui Hiroshi Fujimoto, Kenichi Fukui, 1997-11-26 This book is a collection of selected papers on the Frontier Orbital Theory by Nobel prizewinner Kenichi Fukui Chemistry 1981 with introductory notes It provides the basic concept and formulation of the

theory and the physical and chemical significance of the frontier orbital interactions in chemistry together with many practical applications The formulation of the Intrinsic Reaction Coordinate and applications to some simple systems are also presented The aim of this volume is to show by what forces chemical reactions are driven and to demonstrate how the regio and stereo selectivities are determined in chemical reactions Students and senior investigators will gain insight into the nature of chemical reactions and find out how quantum chemical calculations are connected with chemical intuition

Modern Alchemy Mark Morrisson, 2007-04-19 Alchemists are generally held to be the quirky forefathers of science blending occultism with metaphysical pursuits Although many were intelligent and well intentioned thinkers the oft cited goals of alchemy paint these antiquated experiments as wizardry not scientific investigation Whether seeking to produce a miraculous panacea or struggling to transmute lead into gold the alchemists radical goals held little relevance to consequent scientific pursuits Thus the temptation is to view the transition from alchemy to modern science as one that discarded fantastic ideas about philosophers stones and magic potions in exchange for modest yet steady results It has been less noted however that the birth of atomic science actually coincided with an efflorescence of occultism and esoteric religion that attached deep significance to questions about the nature of matter and energy Mark Morrisson challenges the widespread dismissal of alchemy as a largely insignificant historical footnote to science by prying into the revival of alchemy and its influence on the emerging subatomic sciences of the late 19th and early 20th centuries Morrisson demonstrates its surprising influence on the emerging subatomic sciences of the late 19th and early 20th centuries Specifically Morrisson examines the resurfacing of occult circles during this time period and how their interest in alchemical tropes had a substantial and traceable impact upon the science of the day Modern Alchemy chronicles several encounters between occult conceptions of alchemy and the new science describing how academic chemists inspired by the alchemy revival attempted to transmute the elements to make gold Examining scientists publications correspondence talks and laboratory notebooks as well as the writings of occultists alchemical tomes and science fiction stories he argues that during the birth of modern nuclear physics the trajectories of science and occultism so often considered antithetical briefly merged

Solid State Chemistry: Selected Papers Of C N R Rao S K Joshi, Ragunath A Mashelkar, 1995-02-28 Solid State Chemistry today is a frontier area of mainstream chemistry and plays a vital role in the development of materials The present work consisting of a selection of Prof C N R Rao s papers covers most of the important aspects of solid state chemistry and provides the flavor of the subject showing how the subject has evolved over the years The book is up to date and will be useful to students teachers beginning researchers and practitioners in solid state chemistry as well as in the broader area of materials science

Linus Pauling - Selected Scientific Papers (In 2 Volumes) - Volume 1 Barclay Kamb, Linda Pauling Kamb, Carl Alexander Kamb, Peter Jeffress Pauling, Linus Pauling Jr, 2001-11-02 Linus Pauling wrote a stellar series of over 800 scientific papers spanning an amazing range of fields some of which he himself initiated This book is a selection of the most important of his

writings in the fields of quantum mechanics chemical bonding covalent ionic metallic and hydrogen bonding molecular rotation and entropy protein structure hemoglobin molecular disease molecular evolution the antibody mechanism the molecular basis of anesthesia orthomolecular medicine radiation chemistry biology and nuclear structure Through these papers the reader gets a fresh unfiltered view of the genius of Pauling s many contributions to chemistry chemical physics molecular biology and molecular medicine

Linus Pauling - Selected Scientific Papers (In 2 Volumes) - Volume 2

Barclay Kamb,Linda Pauling Kamb,Carl Alexander Kamb,Peter Jeffress Pauling,Linus Pauling Jr,2001-11-02 Linus Pauling wrote a stellar series of over 800 scientific papers spanning an amazing range of fields some of which he himself initiated This book is a selection of the most important of his writings in the fields of quantum mechanics chemical bonding covalent ionic metallic and hydrogen bonding molecular rotation and entropy protein structure hemoglobin molecular disease molecular evolution the antibody mechanism the molecular basis of anesthesia orthomolecular medicine radiation chemistry biology and nuclear structure Through these papers the reader gets a fresh unfiltered view of the genius of Pauling s many contributions to chemistry chemical physics molecular biology and molecular medicine

On Being Well-coordinated Fred Basolo,John L. Burmeister,2003 This invaluable book distils the research accomplishments of Professor Fred Basolo during the five decades when he served as a world leader in the modern renaissance of inorganic chemistry Its primary focus is on the very important area of chemistry known as coordination chemistry Most of the elements in the periodic table are metals and most of the chemistry of metals involves coordination chemistry This is the case in the currently significant areas of research including organometallic homogenous catalysis biological reactions of metalloproteins and even the solid state extended structures of new materials In these systems the metals are of primary importance because they are the sites of ligand substitution or redox reactions In the solid materials the coordination number of the metal and its stereochemistry are of major importance Some fifty years of research on transition metal complexes carried out in the laboratory of Professor Basolo at Northwestern University is recorded here as selected scientific publications The book is divided into three different major research areas each dealing with some aspect of coordination chemistry In each case introductory remarks are presented which indicate what prompted the research projects and what the major accomplishments were Although the research was of the academic curiosity driven type some aspects have proven to be useful to others involved in projects that were much more applied in nature

Quantum Chemistry: Classic Scientific Papers Hinne Hettema,2000-03-24 Chemical physics is presently a very active field where theoretical computation and accurate experimentation have led to a host of exciting new results Among these are the possibility of state to state reactive scattering the insights in non adiabatic chemistry and from the computational perspective the use of explicitly correlated functions in quantum chemistry Many of these present day developments use ideas derivations and results that were obtained in the very early days of quantum theory in the 1920s and 1930s Much of this material is hard to study for readers not familiar with German This volume

presents English translations of some of the most important papers The choice of material is made with the relevance to present day researchers in mind Included are seminal papers by M Born and J R Oppenheimer J von Neumann and E Wigner E A Hylleraas F London F Hund H A Kramers R de L Kronig and F H ckel among others

Nmr In Structural Biology: A Collection Of Papers By Kurt Wuthrich Kurt Wuthrich,1995-07-31 The volume presents a survey of the research by Kurt W thrich and his associates during the period 1965 to 1994 A selection of reprints of original papers on the use of NMR spectroscopy in structural biology is supplemented with an introduction which outlines the foundations and the historical development of the use of NMR spectroscopy for the determination of three dimensional structures of biological macromolecules in solution The original papers are presented in groups highlighting protein structure determination by NMR studies of dynamic properties and hydration of biological macromolecules and practical applications of the NMR methodology in fields such as enzymology transcriptional regulation immunosuppression and protein folding

Advances In Chemistry: A Selection Of C N R Rao's Publications (1994-2003) C N R Rao,2003-09-12 This invaluable book comprises assorted recent papers of Professor C N R Rao a well known chemist It presents current trends in materials chemistry and physics offering in depth information to young researchers and pleasant reading to experts Advances in Chemistry brings out the single minded dedication of Professor Rao to the promotion of science

The Oxidation of Oxygen and Related Chemistry Neil Bartlett,2001 The selected papers in this invaluable volume are arranged in chapters each with an introductory essay The purpose of the arrangement is to illustrate the process of scientific discovery at work Neil Bartlett s field is that of powerful oxidizers The early chapters tell the story of the oxidation of the oxygen molecule and the discovery of xenon chemistry His work in noble gas chemistry is summarized Succeeding chapters show how metastable fluorides such as Ag₃ and NiF₄ came to be prepared at ordinary temperatures and pressures and how they have provided the most potent oxidizers and fluorinators ever prepared

Linus Pauling Linus Pauling,Barclay Kamb,2001 Pt III Biological macromolecules ch 11 Hemoglobin Oxygen bonding and magnetic properties papers SP 82 to SP ch 12 Antibodies Structure and function papers SP 88 to SP 94 ch 13 The alpha helix and the structure of proteins papers SP 95 to SP 111 ch 14 Molecular biology The role of large molecules in life and evolution papers SP 112 to SP 121 pt IV Health and medicine ch 15 Molecular disease papers SP 122 to SP 126 ch 16 Physiological chemistry effects of radiation and health hazards papers SP 127 to SP 133 ch 17 Orthomolecular medicine papers SP 134 to SP 144 pt V Summary of Linus Pauling s life and scientific work ch 18 Biographical memoir by Prof Jack D Dunitz

Biographical Memoirs National Academy of Sciences,2000-12-13 Biographic Memoirs Volume 78 contains the biographies of deceased members of the National Academy of Sciences and bibliographies of their published works Each biographical essay was written by a member of the Academy familiar with the professional career of the deceased For historical and bibliographical purposes these volumes are worth returning to time and again

Femtochemistry: Ultrafast Dynamics Of The Chemical Bond (In 2 Volumes) - Volume 1

Ahmed H Zewail, 1994-09-12 These two volumes on Femtochemistry present a timely contribution to a field central to the understanding of the dynamics of the chemical bond This century has witnessed great strides in time and space resolutions down to the atomic scale providing chemists biologists and physicists with unprecedented opportunities for seeing microscopic structures and dynamics Femtochemistry is concerned with the time resolution of the most elementary motions of atoms during chemical change bond breaking and bond making on the femtosecond 10⁻¹⁵ second time scale This atomic scale of time resolution has now reached the ultimate for the chemical bond and as Lord George Porter puts it chemists are near the end of the race against time These two volumes cover the general concepts techniques and applications of femtochemistry Professor Ahmed Zewail who has made the pioneering contributions in this field has from over 250 publications selected the articles for this anthology These volumes begin with a commentary and a historical chronology of the milestones He then presents a broad perspective of the current state of knowledge in femtochemistry by researchers around the world and discusses possible new directions In the words of a colleague it is a must on the reading list for all of my students all readers will find this to be an informative and valuable overview The introductory articles in Volume I provide reviews for both the non experts as well as for experts in the field This is followed by papers on the basic concepts For applications elementary reactions are studied first and then complex reactions Volume I is complete with studies of solvation dynamics non reactive systems ultrafast electron diffraction and the control of chemical reactions Volume II continues with reaction rates the concept of elementary intramolecular vibrational energy redistribution IVR and the phenomena of rotational coherence which has become a powerful tool for the determination of molecular structure via time resolution The second volume ends with an extensive list of references according to topics based on work by Professor Zewail and his group at Caltech These collected works by Professor Zewail will certainly be indispensable to both experts and beginners in the field The author is known for his clarity and for his creative and systematic contributions These volumes will be of interest and should prove useful to chemists biologists and physicists As noted by Professor J Manz Berlin and Professor A W Castleman Jr Penn State femtochemistry is yielding exciting new discoveries from analysis to control of chemical reactions with applications in many domains of chemistry and related fields e g physical organic and inorganic chemistry surface science molecular biology etc

Femtochemistry Ahmed H. Zewail, 1994 Volume II continues with reaction rates the concept of elementary intramolecular vibrational energy redistribution IVR and the phenomena of rotational coherence which has become a powerful tool for the determination of molecular structure via time resolution The second volume ends with an extensive list of references according to topics based on work by Professor Zewail and his group at Caltech These collected works by Professor Zewail will certainly be indispensable to both experts and beginners in the field The author is known for his clarity and for his creative and systematic contributions These volumes will be of interest and should prove useful to chemists biologists and physicists As noted by Professor J Manz Berlin and Professor A W Castleman Jr *Scientist Speaks*

Out, A: A Personal Perspective On Science, Society And Change Glenn T Seaborg, 1996-07-29 In *A Scientist Speaks Out A Personal Perspective on Science Society and Change* Nobel Laureate Chemistry 1951 Glenn T Seaborg shares some of his thoughts and reflections on his broad interests from the formulation of national science policy to the promise of youth During a distinguished career in science and public service that spanned more than 50 years he published over 500 works and maintained a public speaking schedule that included about 700 speeches on a wide variety of topics This volume is a collection of nearly forty of his more popular speeches and articles directed at a mostly non scientific and non technical audience Since this volume is a compendium of reprints readers will be able to share some of Seaborg s thoughts as he originally penned them

[From Transuranic to Superheavy Elements](#) Helge Kragh, 2018-02-12 The story of superheavy elements those at the very end of the periodic table is not well known outside the community of heavy ion physicists and nuclear chemists But it is a most interesting story which deserves to be known also to historians philosophers and sociologists of science and indeed to the general public This is what the present work aims at It tells the story or rather parts of the story of how physicists and chemists created elements heavier than uranium or searched for them in nature And it does so with an emphasis on the frequent discovery and naming disputes concerning the synthesis of very heavy elements Moreover it calls attention to the criteria which scientists have adopted for what it means to have discovered a new element In this branch of modern science it may be more appropriate to speak of creation instead of discovery The work will be of interest to scientists as well as to scholars studying modern science from a meta perspective

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