

THE NORTON HISTORY OF

# CHEMISTRY

*William H. Brock*



# Norton History Of Chemistry

**William Hodson Brock**



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### **Reader's Guide to the History of Science**

Arne Hessenbruch,2013-12-16 The Reader's Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn

### **Acetylene and Its**

**Polymers** Seth C. Rasmussen,2018-07-21 This Brief presents for the first time a detailed historical overview of the development of acetylene polymers beginning with the initial discovery of acetylene in 1836 and continuing up through the 2000 Nobel Prize in Chemistry The polymerization of acetylene is most commonly associated with polyacetylene which was found to be conductive when treated with oxidizing agents such as Br<sub>2</sub> or I<sub>2</sub> in the mid to late 1970s In fact under the right conditions oxidized polyacetylenes can exhibit conductivities into the metallic regime thus providing the first example of an organic polymer exhibiting metallic conductivity As a consequence the 2000 Nobel Prize in Chemistry was awarded to Hideki Shirakawa Alan MacDiarmid and Alan Heeger for this pioneering research the award citation reading for the discovery and development of electrically conductive polymers Because of this most incorrectly view polyacetylene as well as conducting polymers in general to originate in the 1970s In this work the author examines the polymerization of acetylene from early thermal polymerization studies to the ultimate production of the fully conjugated polyacetylene Although true polyacetylene was not successfully produced until the 1950s by Giulio Natta the polymerization of acetylene dates back to 1866 with the work of Marcellin Berthelot These initial efforts were continued by a range of scientists to produce a polymeric material collectively given the name cuprene in 1900 by Paul Sabatier Between the initial cuprene studies and the production of true polyacetylene two related materials were also studied usually referred to as polyenes and polyvinylenes Although both of these materials could be thought of as forms of polyacetylene neither was actually generated from the direct polymerization of acetylene Readers will gain insight into the fact that polyacetylene and conducting organic polymers have a much longer history than commonly believed and involved the work of a significant number of Nobel Laureates

### **From Elements to**

**Atoms** Robert Siegfried,2002 Seeking to enlarge an understanding of the nature of chemical science references to recently published secondary works are intended for the benefit of readers who wish to enlarge their perspectives on the development of early chemical thinking

### **Philosophical Instruments**

Daniel Rothbart,2007-06-25 The surprising roles of instruments and experimentation in acquiring knowledge In Philosophical Instruments Daniel Rothbart argues that our tools are not just neutral intermediaries between humans and the natural world but are devices that demand new ideas about reality Just as a hunter's new spear can change their knowledge of the environment so can the development of modern scientific equipment

alter our view of the world Working at the intersections of science technology and philosophy Rothbart examines the revolution in knowledge brought on by recent advances in scientific instruments Full of examples from historical and contemporary science including electron scanning microscopes sixteenth century philosophical instruments and diffraction devices used by biochemical researchers Rothbart explores the ways in which instrumentation advances a philosophical stance about an instrument s power an experimenter s skills and a specimen s properties Through a close reading of engineering of instruments he introduces a philosophy from rather than of design contending that philosophical ideas are channeled from design plans to models and from model into the use of the devices *The Lost Elements* Marco

Fontani, Mariagrazia Costa, Mary Virginia Orna, 2015 The story of the false entries good faith errors retractions and mistakes that occurred during the formation of the Periodic Table of Elements as we know it **The Oxford Companion to the History of Modern Science** John L. Heilbron, 2003-02-14 Containing 609 encyclopedic articles written by more than 200 prominent scholars The Oxford Companion to the History of Modern Science presents an unparalleled history of the field invaluable to anyone with an interest in the technology ideas discoveries and learned institutions that have shaped our world over the past five centuries Focusing on the period from the Renaissance to the early twenty first century the articles cover all disciplines Biology Alchemy Behaviorism historical periods the Scientific Revolution World War II the Cold War concepts Hypothesis Space and Time Ether and methodologies and philosophies Observation and Experiment Darwinism Coverage is international tracing the spread of science from its traditional centers and explaining how the prevailing knowledge of non Western societies has modified or contributed to the dominant global science as it is currently understood Revealing the interplay between science and the wider culture the Companion includes entries on topics such as minority groups art religion and science s practical applications One hundred biographies of the most iconic historic figures chosen for their contributions to science and the interest of their lives are also included Above all The Oxford Companion to the History of Modern Science is a companion to world history modern in coverage generous in breadth and cosmopolitan in scope The volume s utility is enhanced by a thematic outline of the entire contents a thorough system of cross referencing and a detailed index that enables the reader to follow a specific line of inquiry along various threads from multiple starting points Each essay has numerous suggestions for further reading all of which favor literature that is accessible to the general reader and a bibliographical essay provides a general overview of the scholarship in the field Lastly as a contribution to the visual appeal of the Companion over 100 black and white illustrations and an eight page color section capture the eye and spark the imagination **Tools and Modes of Representation in the Laboratory Sciences** U. Klein, 2013-04-17 constitutive of reference in laboratory sciences as cultural sign systems and their manipulation and superposition collectively shared classifications and associated conceptual frameworks and various forms of collective action and social institutions This raises the question of how much modes of representation and specific types of sign systems mobilized to construct them contribute

to reference Semioticians have argued that sign systems are not merely passive media for expressing preconceived ideas but actively contribute to meaning Sign systems are culturally loaded with meaning stemming from previous practical applications and social traditions of applications In new local contexts of application they not only transfer stabilized meaning but also can be used as active resources to add new significance and modify previous meaning This view is supported by several analyses presented in this volume Sign systems can be implemented like tools that are manipulated and superposed with other types of signs to forge new representations The mode of representation made possible by applying and manipulating specific types of representational tools such as diagrammatic rather than mathematical representations or Berzelian formulas rather than verbal language contributes to meaning and forges fine grained differentiations between scientists concepts Taken together the essays contained in this volume give us a multifaceted picture of the broad variety of modes of representation in nineteenth century and twentieth century laboratory sciences of the way scientists juxtaposed and integrated various representations and of their pragmatic use as tools in scientific and industrial practice **Law,**

**Economics and Evolutionary Theory** Peer Zumbansen, Galf-Peter Calliess, 2011-01-01 Evolutionary theory belongs to the rare species of theories that are simultaneously fundamental and over arching implicating as it does numerous life contexts as well as an array of scholarly disciplines Armed with a profound grasp of evolutionary theory and its implications to social research Professors Zumbansen and Calliess have mobilized an appropriately diverse and truly stellar group of academics to investigate how this theory may provide new insights about law economics and their inter relations Cast against an especially broad intellectual backdrop set by the editors this volume is sure to become a standard reference in literature Amir N Licht Radzyner School of Law Israel Zumbansen and Calliess have done a wonderful job in assembling papers from the leading scholars in the field who draw on evolutionary approaches for explaining developments in both economics and the law Anybody interested in issues of institutional change will be inspired by the wealth of ideas and the diversity of perspectives Stefan Voigt University of Hamburg Germany Law and economics has arguably become one of the most influential theories in contemporary legal theory and adjudication The essays in this volume authored by both legal scholars and economists constitute lively and critical engagements between law and economics and new institutional economics from the perspectives of legal and evolutionary theory The result is a fresh look at core concepts in law and economics such as institutions institutional change and market failure that offer new perspectives on the relationship between economic and legal governance The increasingly transnational dimension of regulatory governance presents lawyers economists and social scientists with an unprecedented number of complex analytical and conceptual questions The contributions to this volume engage with legal theory new institutional economics economic sociology and evolutionary economics in an interdisciplinary assessment of the capacities and limits of the state markets and institutions Drawing as well upon legal sociology and the philosophy of law the authors expand and transform the known terrain of law and economics by applying evolutionary theory

to both law and economics from a domestic and transnational perspective Legal scholars evolutionary and regulatory theorists economists economic sociologists economic historians and political scientists will find this cutting edge volume both challenging and engaging

**The World in a Crucible** Sally Newcomb, 2009-01-01 Geology coalesced as a discipline in the early part of the nineteenth century with the coming together of many strands of investigation and thought The theme of experimentation and or instrument aided observation is absent from most recent accounts of that time which rely on an admixture of theory and field observations informed by close examination of minerals James Hutton emerged as the person who had it right with suggestion of a central heat source for Earth while Abraham Gottlob Werner and his Neptunist supporters were derided as being blinded by overarching belief as opposed to sober application of observed facts However despite several claims that Hutton had won the day primary literature from both England and the Continent reveals that the question was by no means settled for decades after Hutton derided information derived from looking into a little crucible This Special Paper makes the case that it was just those parameters of heat pressure solution and composition discovered in the laboratory that prevented resolution of the overriding questions about rock origin

**Using The Biological Literature** Diane Schmidt, Elisabeth B. Davis, 2001-12-06 Provides an in depth review of current print and electronic tools for research in numerous disciplines of biology including dictionaries and encyclopedias method guides handbooks on line directories and periodicals Directs readers to an associated Web page that maintains the URLs and annotations of all major Internet resources discussed in th

*Makers of Western Science* Todd Timmons, 2014-01-10 Non scientists often perceive science as a dry boring vocation pursued by dry boring people Contrary to popular perception science has actually been the product of fascinating people seeking to explain the world around them From Galileo s difficulties with the Inquisition to the quirkiness of Newton to the iconic figure that was Einstein this innovative volume chronicles the history of science using extensive passages from the works of the scientists themselves Who better to appeal to our common sense concerning the truth of a sun centered universe than Copernicus himself Kepler expresses in his own words the way in which he awoke to the revelation of elliptical orbits and Darwin shares his slowly evolving ideas leading to the theory of natural selection Part biography part history this work reveals the personalities behind the world s most significant scientific discoveries providing an interesting new perspective on the human endeavor we call science Instructors considering this book for use in a course may request an examination copy here

**Alchemy Tried in the Fire** William R. Newman, Lawrence M. Principe, 2010-11-15 Winner of the 2005 Pfizer Prize from the History of Science Society What actually took place in the private laboratory of a mid seventeenth century alchemist How did he direct his quest after the secrets of Nature What instruments and theoretical principles did he employ Using as their guide the previously misunderstood interactions between Robert Boyle widely known as the father of chemistry and George Starkey an alchemist and the most prominent American scientific writer before Benjamin Franklin as their guide Newman and Principe reveal the hitherto hidden laboratory

operations of a famous alchemist and argue that many of the principles and practices characteristic of modern chemistry derive from alchemy. By analyzing Starkey's extraordinary laboratory notebooks, the authors show how this American chymist translated the wildly figurative writings of traditional alchemy into quantitative, carefully reasoned laboratory practice and then encoded his own work in allegorical, secretive treatises under the name of Eirenaeus Philalethes. The intriguing mystic Joan Baptista Van Helmont, a favorite of Starkey, Boyle, and even of Lavoisier, emerges from this study as a surprisingly central figure in seventeenth-century chymistry. A common emphasis on quantification, material production and analysis, synthesis, the authors argue, illustrates a continuity of goals and practices from late medieval alchemy down to and beyond the Chemical Revolution. For anyone who wants to understand how alchemy was actually practiced during the Scientific Revolution and what it contributed to the development of modern chemistry, *Alchemy Tried in the Fire* will be a veritable philosopher's stone.



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