

Cathedrals Of Science The Personalities And Rivalries That Made Modern Chemistry

Lawrence and the Cyclotron: the Birth of Big Science - ECR ... - PLOS

Kinetik Kimya Nedir? Tarihteki İlk Nobel Kimya Ödülünü Almaya Hak ... - Evrim Ağacı

Patrick Coffey - Iareviewofbooks

Quantum Photonics: Pioneering Advances and Emerging Applications - Robert W. Boyd 2019-02-19

This book brings together reviews by internationally renowned experts on quantum optics and photonics. It describes novel experiments at the limit of single photons, and presents advances in this emerging research area. It also includes reprints and historical descriptions of some of the first pioneering experiments at a single-photon level and nonlinear optics, performed before the inception of lasers and modern light detectors, often with the human eye serving as a single-photon detector. The book comprises 19 chapters, 10 of which describe modern quantum photonics results, including single-photon sources, direct measurement of the photon's spatial wave function, nonlinear interactions and non-classical light, nanophotonics for room-temperature single-photon sources, time-multiplexed methods for optical quantum information processing, the role of photon statistics in visual perception, light-by-light coherent control using metamaterials, nonlinear nanoplasmonics, nonlinear polarization optics, and ultrafast nonlinear optics in the mid-infrared.

Lives And Times Of Great Pioneers In Chemistry (Lavoisier To Sanger) - C N R Rao 2015-11-18

Chemical science has made major advances in the last few decades and has gradually transformed in to a highly multidisciplinary subject that is exciting academically and at the same time beneficial to human kind. In this context, we owe much to the foundations laid by great pioneers of chemistry who contributed new knowledge and created new directions. This book presents the lives and times of 21 great chemists starting from Lavoisier (18th century) and ending with Sanger. Then, there are stories of the great Faraday (19th century) and of the 20th century geniuses G N Lewis and Linus Pauling. The material in the book is presented in the form of stories describing important aspects of the lives of these great personalities, besides highlighting their contributions to chemistry. It is hoped that the book will provide enjoyable reading and also inspiration to those who wish to understand the secret of the creativity of these great chemists.

The Chemists' War - Michael Freemantle 2015

The 1914-18 war has been referred to as the 'chemists' war' and to commemorate the centenary, this collection of essays will examine various facets of the role of chemistry in the First World War. Written by an experienced science writer, this book will be of interest to scientists and historians with an interest in this technologically challenging time.

Electrochemical Dictionary - Allen J. Bard 2012-08-30

This second edition of the highly successful dictionary offers more than 300 new or revised terms. A distinguished panel of electrochemists provides up-to-date, broad and authoritative coverage of 3000 terms most used in electrochemistry and energy research as well as related fields, including relevant areas of physics and engineering. Each entry supplies a clear and precise explanation of the term and provides references to the most useful reviews, books and original papers to enable readers to pursue a deeper understanding if so desired. Almost 600 figures and illustrations elaborate the textual definitions. The "Electrochemical Dictionary" also contains biographical entries of people who have substantially contributed to electrochemistry. From reviews of the first edition: 'the creators of the Electrochemical Dictionary have done a laudable job to ensure that each definition included here has been defined in precise terms in a clear and readily accessible style' (The Electric Review) 'It is a must for any scientific library, and a personal purchase can be strongly suggested to anybody interested in electrochemistry' (Journal of Solid State Electrochemistry) 'The text is readable, intelligible and very well written' (Reference Reviews)

Sustaining Life - Eric Chivian 2008-05-15

"Secretariat of the Convention on Biological Diversity; United Nations Development Programme; United Nations Environment Programme; IUCN--The World Conservation Union."

Elements of Ethics for Physical Scientists - Sandra C. Greer 2017-10-13

A guide to the everyday decisions about right and wrong faced by physical scientists and research engineers. This book offers the first comprehensive guide to ethics for physical scientists and engineers who conduct research. Written by a distinguished professor of chemistry and chemical engineering, the book focuses on the everyday decisions about right and wrong faced by scientists as they do research, interact with other people, and work within society. The goal is to nurture readers' ethical intelligence so that they know an ethical issue when they see one, and to give them a way to think about ethical problems. After introductions to the philosophy of ethics and the philosophy of science, the book discusses research integrity, with a unique emphasis on how scientists make mistakes and how they can avoid them. It goes on to cover personal interactions among scientists, including authorship, collaborators, predecessors, reviewers, grantees, mentors, and whistle-blowers. It considers underrepresented groups in science as an ethical issue that matters not only to those groups but also to the development of science, and it examines human participants and animal subjects. Finally, the book examines scientifically relevant social issues, including public policy, weapons research, conflicts of interest, and intellectual property. Each chapter ends with discussion questions and case studies to encourage debate and further exploration of topics. The book can be used in classes and seminars in research ethics and will be an essential reference for scientists in academia, government, and industry.

Cathedrals of Science - Patrick Coffey 2008-08-29

In *Cathedrals of Science*, Patrick Coffey describes how chemistry got its modern footing-how thirteen brilliant men and one woman struggled with the laws of the universe and with each other. They wanted to discover how the world worked, but they also wanted credit for making those discoveries, and their personalities often affected how that credit was assigned. Gilbert Lewis, for example, could be reclusive and resentful, and his enmity with Walther Nernst may have cost him the Nobel Prize; Irving Langmuir, gregarious and charming, "rediscovered" Lewis's theory of the chemical bond and received much of the credit for it. Langmuir's personality smoothed his path to the Nobel Prize over Lewis. Coffey deals with moral and societal issues as well. These same scientists were the first to be seen by their countries as military assets. Fritz Haber, dubbed the "father of chemical warfare," pioneered the use of poison gas in World War I-vividly described-and Glenn Seaborg and Harold Urey were leaders in World War II's Manhattan Project; Urey and Linus Pauling worked for nuclear disarmament after the war. Science was not always fair, and many were excluded. The Nazis pushed Jewish scientists like Haber from their posts in the 1930s. Anti-Semitism was also a force in American chemistry, and few women were allowed in; Pauling, for example, used his influence to cut off the funding and block the publications of his rival, Dorothy Wrinch. *Cathedrals of Science* paints a colorful portrait of the building of modern chemistry from the late 19th to the mid-20th century.

Scientific Feuds - Joel Levy 2016-12-01

Most science chronicles present a triumphant march through time, with revolutionary thinkers and their discoveries following in orderly progression. The truth, however, is somewhat different. *Scientific Feuds* is a collection of the most vicious battles among the greatest minds of our time. It features such contests as Huxley and Wilberforce's debate on Darwin's theory of evolution, Franklin and Wilkins' fight over the discovery of DNA, and the "War of Currents" between Tesla and Edison (which ended with Edison electrocuting dogs and horses in a vain attempt to discredit Tesla's work). From passionate competition to

vindictive sniping, these rivalries prove that the world of science is far from cold and methodical.

[A Guide to the Elements](#) - Albert Stwertka 2002-05-02

Presents the basic concepts of chemistry and explains complex theories before offering a separate article on each of the building blocks that make up the universe.

Wilhelm Ostwald - Robert Smail Jack 2017-01-25

This book is the translated and commented autobiography of Wilhelm Ostwald (1853-1932), who won the Nobel Prize for Chemistry in 1909. It is the first translation of the German original version "Lebenslinien: Eine Selbstbiographie," published by Ostwald in 1926/27, and has been painstakingly translated. The book includes comments and explanations, helping readers to understand Ostwald's text in the historical context of Germany at the beginning of the 20th century. In his autobiography, Ostwald describes his impressive research career and his life from his own personal view. Readers will find information on how Ostwald immortalized himself through his research on catalysis, chemical equilibria, technical chemistry, and especially as one of the founders of modern physical chemistry. His broad interests in science, ranging from philosophy to the theory of colors and the idea of a universal scientific language are further remarkable aspects covered. This work will appeal to a broad audience of contemporary scientists: Wilhelm Ostwald has been tremendously influential for the development of chemistry and science, and many of today's best-known international scientific schools can be traced back to Ostwald's students. Ostwald was active in Germany and what is now Latvia and Estonia, while also travelling to the USA, England and France. In his discussions and analyses of the working conditions of the time, readers will find many issues reflected that continue to be of relevance today.

[The Lost Elements](#) - Marco Fontani 2015

In the mid-nineteenth century, chemists came to the conclusion that elements should be organized by their atomic weights. However, the atomic weights of various elements were calculated erroneously, and chemists also observed some anomalies in the properties of other elements. Over time, it became clear that the periodic table as currently comprised contained gaps, missing elements that had yet to be discovered. A rush to discover these missing pieces followed, and a seemingly endless amount of elemental discoveries were proclaimed and brought into laboratories. It wasn't until the discovery of the atomic number in 1913 that chemists were able to begin making sense of what did and what did not belong on the periodic table, but even then, the discovery of radioactivity convoluted the definition of an element further. Throughout its formation, the periodic table has seen false entries, good-faith errors, retractions, and dead ends; in fact, there have been more elemental "discoveries" that have proven false than there are current elements on the table. *The Lost Elements: The Shadow Side of Discovery* collects the most notable of these instances, stretching from the nineteenth century to the present. The book tells the story of how scientists have come to understand elements, by discussing the failed theories and false discoveries that shaped the path of scientific progress. Chapters range from early chemists' stubborn refusal to disregard alchemy as legitimate practice, to the effects of the atomic number on discovery, to the switch in influence from chemists to physicists, as elements began to be artificially created in the twentieth century. Along the way, Fontani, Costa, and Orna introduce us to the key figures in the development of the periodic table as we know it. And we learn, in the end, that this development was shaped by errors and gaffs as much as by correct assumptions and scientific conclusions.

Science and Empires - P. Petitjean 2012-12-06

SCIENCE AND EMPIRES: FROM THE INTERNATIONAL COLLOQUIUM TO THE BOOK Patrick PETITJEAN, Catherine JAMI and Anne Marie MOULIN The International Colloquium "Science and Empires - Historical Studies about Scientific Development and European Expansion" is the product of an International Colloquium, "Sciences and Empires - A Comparative History of Scientific Exchanges: European Expansion and Scientific Development in Asian, African, American and Oceanian Countries". Organized by the REHSEIS group (Research on Epistemology and History of Exact Sciences and Scientific Institutions) of CNRS (National Center for Scientific Research), the colloquium was held from 3 to 6 April 1990 in the UNESCO building in Paris. This colloquium was an idea of Professor Roshdi Rashed who initiated this field of studies in France some years ago, and proposed "Sciences and Empires" as one of the main research programmes for the The project to organize such a colloquium was a bit REHSEIS group. of

a gamble. Its subject, reflected in the title "Sciences and Empires", is not a currently-accepted sub-discipline of the history of science; rather, it refers to a set of questions which found autonomy only recently. The terminology was strongly debated by the participants and, as is frequently suggested in this book, awaits fuller clarification.

The Beginner's Guide to Winning the Nobel Prize - Peter Doherty 2006

In *The Beginner's Guide to Winning the Nobel Prize*, Doherty recounts his unlikely path to becoming a Nobel Laureate. Beginning with his humble origins in Australia, he tells how he developed an interest in immunology and describes his award-winning, influential work with Rolf Zinkernagel on T-cells and the nature of immune defense. In prose that is at turns amusing and astute, Doherty reveals how his nonconformist upbringing, sense of being an outsider, and search for different perspectives have shaped his life and work. Doherty offers a rare, insider's look at the realities of being a research scientist. He lucidly explains his own scientific work and how research projects are selected, funded, and organized; the major problems science is trying to solve; and the rewards and pitfalls of a career in scientific research. For Doherty, science still plays an important role in improving the world, and he argues that scientists need to do a better job of making their work more accessible to the public. Throughout the book, Doherty explores the stories of past Nobel winners and considers some of the crucial scientific debates of our time, including the safety of genetically modified foods and the tensions between science and religion. He concludes with some "tips" on how to win a Nobel Prize, including advice on being persistent, generous, and culturally aware, and he stresses the value of evidence. *The Beginner's Guide to Winning the Noble Prize* is essential reading for anyone interested in a career in science.

[American Arsenal](#) - Patrick Coffey 2014-03

American Arsenal examines the United States' transformation from isolationist state to military superpower by means of sixteen vignettes, each focusing upon an inventor and his contribution to the cause.

The Life and Science of Harold C. Urey - Matthew Shindell 2019-12-03

Harold C. Urey (1893-1981), whose discoveries lie at the foundation of modern science, was one of the most famous American scientists of the twentieth century. Born in rural Indiana, his evolution from small-town farm boy to scientific celebrity made him a symbol and spokesman for American scientific authority. Because he rose to fame alongside the prestige of American science, the story of his life reflects broader changes in the social and intellectual landscape of twentieth-century America. In this, the first ever biography of the chemist, Matthew Shindell shines new light on Urey's struggles and achievements in a thoughtful exploration of the science, politics, and society of the Cold War era. From Urey's orthodox religious upbringing to his death in 1981, Shindell follows the scientist through nearly a century of American history: his discovery of deuterium and heavy water earned him the Nobel Prize in 1934, his work on the Manhattan Project helped usher in the atomic age, he initiated a generation of American scientists into the world of quantum physics and chemistry, and he took on the origin of the Moon in NASA's lunar exploration program. Despite his success, however, Urey had difficulty navigating the nuclear age. In later years he lived in the shadow of the bomb he helped create, plagued by the uncertainties unleashed by the rise of American science and unable to reconcile the consequences of scientific progress with the morality of religion. Tracing Urey's life through two world wars and the Cold War not only conveys the complex historical relationship between science and religion in the twentieth century, but it also illustrates how these complexities spilled over into the early days of space science. More than a life story, this book immerses readers in the trials and triumphs of an extraordinary man and his extraordinary times.

[Roald Hoffmann on the Philosophy, Art, and Science of Chemistry](#) - Roald Hoffmann 2012-01-23

"Roald Hoffmann's contributions to chemistry are well known; this Nobel laureate has published more than 500 articles and two books. As an "applied theoretical chemist," he has made significant contributions to our understanding of chemical bonding and reactivity, and taught two generations of chemists how to use molecular orbitals for real chemistry. Less well known, however, are Hoffmann's important and insightful contributions to the areas of scholarship surrounding chemistry. Over a career that spans nearly fifty years, Roald Hoffmann has thought and written copiously about the broader context of chemistry and its relationship to the arts and poetry. This book contains Hoffmann's essays and is organized around several major themes: chemical reasoning and explanation, writing and communicating in science, ethics, art and

science, and chemical education. A few are unpublished lectures that are valuable additions to the volume. The editors have the full cooperation of Roald Hoffmann in this project. Most of the published work will be reprinted verbatim, but a few of the essays will be revised to eliminate redundancy. The unpublished lectures will also be edited since they were originally intended to be delivered orally at specific occasions. The editors will provide an introduction to the book, and some introductory material for each section. In introducing the material, they will highlight the intrinsic importance and interest of the ideas, as well as the places where Hoffmann's thought makes novel contributions to cognate areas"--

30-Second Chemistry - Nivaldo Tro 2020-04-07

30-Second Chemistry presents the 50 most important ideas in the science of matter - its composition, structure, properties and how it changes. As the central science that bridges biology and physics, chemistry explains the diversity of all things tangible at a molecular level. Understand chemistry, and you'll know why some things oxidize and others explode; why food is good to eat and coal is not. 30-Second Chemistry breaks the subject down into 50 bitesize elements that help us understand the nature of matter, including:

- Atoms, molecules and compounds
- States of matter
- Chemical reactions and energetics
- Inorganic chemistry
- Organic chemistry
- Biochemistry
- Nuclear chemistry

Chemistry is the heart of cooking, it can keep you safe, and it explains why things work. This book brings the subject out of the lab and boils it down to its essential elements - in just 30 seconds. If you like this, you might also be interested in 30-Second Elements, 30-Second Physics and 30-Second Biology.

The Disappearing Spoon - Sam Kean 2011

The infectious tales and astounding details in 'The Disappearing Spoon' follow carbon, neon, silicon and gold as they play out their parts in human history, finance, mythology, war, the arts, poison and the lives of the (frequently) mad scientists who discovered them.

Full Spectrum - Adam Rogers 2021

A lively account of our age-old quest for brighter colors, which changed the way we see the world, from the best-selling author of Proof: The Science of Booze From kelly green to millennial pink, our world is graced

with a richness of colors. But our human-made colors haven't always matched nature's kaleidoscopic array. To reach those brightest heights required millennia of remarkable innovation and a fascinating exchange of ideas between science and craft that's allowed for the most luminous manifestations of our built and adorned world. In Full Spectrum, Rogers takes us on that globe-trotting journey, tracing an arc from the earliest humans to our digitized, synthesized present and future. We meet our ancestors mashing charcoal in caves, Silk Road merchants competing for the best ceramics, and textile artists cracking the centuries-old mystery of how colors mix, before shooting to the modern era for high-stakes corporate espionage and the digital revolution that's rewriting the rules of color forever. In prose as vibrant as its subject, Rogers opens the door to Oz, sharing the liveliest events of an expansive human quest--to make a brighter, more beautiful world--and along the way, proving why he's "one of the best science writers around." *National Geographic

The Chemical Histories of Soot and Buckminsterfullerene - Robert Holloway 2023-03-31

Scientists often argue among themselves about the best description of nature. Science journalists, primarily reporters of scientists' work, and facilitators of their arguments, sometimes go beyond reportage and actually join such arguments, or even initiate them. This book presents the story of such a case. In 1985, the first reports of the discovery of the spherical molecule C60 Buckminsterfullerene, a new third form of carbon beyond diamond and graphite appeared and excited the world, especially the science media. At about the same time, but with much less fanfare, a new description of the formation of the small carbon particles called soot emerged. As this book shows, Nobel laureates-to-be Rick Smalley, Harry Kroto, and Bob Curl sought acknowledgement as discoverers of C60 using the media skillfully. Rudy Baum, a correspondent and eventual editor for premier chemistry newsmagazine Chemical and Engineering News, helped promote and establish the validity of their claim not only by reporting it, but by linking it with the soot science world, evidently contriving an argument between physical chemists and combustion scientists. The soot formation modeler Michael Frenklach tried in vain to quash the notion of such an argument and Chemical and Engineering News never retracted Baum's spectacular story of conflict.

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