

John Emsley

Nature's Building Blocks

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An A-Z Guide to the Elements

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"a marvel...sheer delight." Oliver Sacks

Natures Building Blocks An A Z Guide To The Elements

John Emsley



Natures Building Blocks An A Z Guide To The Elements:

Nature's Building Blocks John Emsley, 2001 Everything we see around us is made of the chemical elements they are Nature's building blocks Our own bodies contain about 30 of them some in abundance some in trace amounts but nevertheless vital to our health and some that are positively harmful The Earth consists of around 90 elements and again some are abundant such as the silicon and oxygen of rocks and soils while some are so rare that they make gold seem cheap yet even these can be part of our everyday life The total number of known elements is now 115 at the last count although most of the 25 new elements that have been synthesized in the past half century have existed for less than a day Some however have accumulated until they now threaten the environment Nature's Building Blocks explains the what why and wherefore of the chemical elements Arranged alphabetically from Actinium to Zirconium it is a complete guide to all 115 of those that are currently known and especially those which comprise everything we encounter in our everyday life The entry on each element reveals where it came from what role it may have in the human body and the foods that contain it There are also sections on its discovery its part in human health or illness the uses and misuses to which it is put and its environmental role A list of the main scientific data and outline properties are given for every element and the section ends with an Element of Surprise which highlights some unexpected way in which each element impinges on our everyday life

Nature's Building Blocks John Emsley, 2011-08-25 John Emsley's Nature's Building Blocks was published in paperback in 2003 In this readable informative and fascinating guide to the elements are entries on each of the 100 odd chemical elements arranged alphabetically from actinium to zirconium Each entry comprises an explanation of where the element's name comes from followed by Body element the role it plays in living things Element of history how and when it was discovered Economic element what it is used for Environmental element where it occurs how much Chemical element facts figures and narrative and Element of surprise an amazing little known fact Since publication of the first edition there have been a number of developments Three new chemical elements have been named and validated darmstadtium roentgenium and copernicium and the section on transfermium elements has now been incorporated into the main part of the book Economic uses of elements have grown and some quite rare elements such as Scandium are now economically important along with updates to elements such as gold due to new roles in industry Fully revised and updated for 2010 this browsable compendium holds a wealth of useful information

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Green and Sustainable Advanced Materials, Volume 2 Shakeel Ahmed, Chaudhery Mustansar Hussain, 2018-10-08 Sustainable development is a very prevalent concept of modern society This concept has appeared as a critical force in combining a special focus on development and growth by maintaining a balance of using human resources and the ecosystem in which we are living The development of new and advanced materials is one of the powerful examples in establishing this concept Green and sustainable advanced materials are the newly synthesized material or existing modified material having superior and special properties These fulfil today's growing demand for equipment machines and devices with better quality for an extensive range of applications in various sectors such as paper biomedical textile and much more Volume 2 provides chapters on the valorization of green and sustainable advanced materials from a biomedical perspective as well as the applications in textile technology optoelectronics energy materials systems and the food and agriculture industry

From Arsenic to Zirconium Peter Davern, 2020-05-05 93 short poems that teach about the elements of the periodic table Indulge your love of the periodic table with this collection of poems and fun facts about the chemical elements that make up our world From arsenic to zirconium this book describes the characteristics history and quirks of each element The poems are a launching point for a guided tour of the elements filled with fascinating scientific trivia For instance Antimony used to treat constipation in the Middle Ages may have killed Mozart There's arsenic in your prawns But don't worry it won't harm you Erbium is used to dope optical fiber amplifiers that make your YouTube videos download faster Iridium was key to the meteor theory of why dinosaurs went extinct You'll find potassium in both bananas and gunpowder Sulfur plays a role in whether your hair is curly or straight Expand your library of scientific literature with this playful and poetic romp through the periodic table *The Matter of History* Timothy J. LeCain, 2017-07-31 New insights into the microbiome epigenetics and cognition are radically challenging our very idea of what it means to be human while an explosion of neo materialist thinking in the humanities has fostered a renewed appreciation of the formative powers of a

dynamic material environment The Matter of History brings these scientific and humanistic ideas together to develop a bold new post anthropocentric understanding of the past one that reveals how powerful organisms and things help to create humans in all their dimensions biological social and cultural Timothy J LeCain combines cutting edge theory and detailed empirical analysis to explain the extraordinary late nineteenth century convergence between the United States and Japan at the pivotal moment when both were emerging as global superpowers Illustrating the power of a deeply material social and cultural history The Matter of History argues that three powerful things cattle silkworms and copper helped to drive these previously diverse nations towards a global Great Convergence

Minerals in Africa Francis Gudyanga, 2020-08-10 Africa's dire need to industrialize is universally acknowledged and it is evident that the continent's vast mineral resources can catalyze that industrialization This requires the promotion of local beneficiation and value addition of minerals to yield materials on which modern Africa's industry and society can rely This book is therefore about transforming Africa's comparative advantages in minerals into the continent's competitive edge regarding materials Mineral beneficiation and value addition form the basis and provide opportunities for mineral driven Africa's industrialization The scope of the book is three fold with inter connected relationships Information Technical and Policy oriented It will be a useful reference material for mining undergraduate students on beneficiation and value addition of each of the minerals found in Africa The book while presenting a broad overview of beneficiation and value addition of Africa's minerals provides crucial starting material for postgraduate research students and R D institutions who wish to delve into more advanced methods of extraction and utilization of mineral derived materials that are in Africa for the purpose of industrialization of the continent

Evolution of Bioenergetics from Elements to Life David F. Stowe, 2025-01-08 This book begins with the creation of the elements used in life and how these elements as atoms bound together into organic compounds and polymerized into lipids peptides and nucleotides The text stresses the role and importance of the elements C H O N P S the univalent and multivalent ions and the requirement of liquid water to foster prebiotic life Expert author Dr David Stowe explains the role of early molecular interactions in developing the first living prokaryote bacteria and their eventual engulfment as organelles to make eukaryotes that allowed their sophistication into specialized cells and large multicellular organisms The book uniquely traces the genesis of bioenergetics and uses cardiac cell mitochondria as an evolutionary example for modern bioenergetic function This book is geared toward graduate students post doctoral fellows and other academics interested in evolutionary biochemistry with an emphasis on the early development of bioenergetics leading to modern high energy mitochondria

The Periodic Table Eric R. Scerri, 2020 The Periodic Table Its Story and Its Significance traces the evolution and development of the periodic table from Mendeleev's 1869 first published table and onto the modern understanding provided by modern physics

Nanophotonics, Nanooptics, Nanobiotechnology, and Their Applications Olena Fesenko, Leonid Yatsenko, 2019-07-31 This book highlights some of the latest advances in nanotechnology and nanomaterials from leading researchers in Ukraine

Europe and beyond It features contributions from participants in the 6th International Science and Practice Conference Nanotechnology and Nanomaterials NANO2018 in Kiev Ukraine on August 27 30 2018 organized by the Institute of Physics of the National Academy of Sciences of Ukraine University of Tartu Estonia University of Turin Italy and Pierre and Marie Curie University France Internationally recognized experts from a wide range of universities and research institutions share their knowledge and key results on nanooptics energy storage and biomedical applications This book s companion volume also addresses topics such as materials properties behavior and synthesis

Handbook of Metal-Microbe Interactions and Bioremediation Surajit Das,Hirak Ranjan Dash,2017-04-07

Around the World metal pollution is a major problem Conventional practices of toxic metal removal can be ineffective and or expensive delaying and exacerbating the crisis Those communities dealing with contamination must be aware of the fundamentals advances of microbe mediated metal removal practices because these methods can be easily used and require less remedial intervention This book describes innovations and efficient applications for metal bioremediation for environments polluted by metal contaminants

Radioecology R. J. Pentreath,2021-08-12 Natural radiation arises from many sources from the unstable atoms within our own bodies and in the materials around us from the Sun and even from beyond the Solar System Additional sources include the legacy of testing nuclear weapons nuclear waste and nuclear accidents All these sources have provided means of dating environmental materials and tracing the movements of substances through land sea and air But ionising radiation also interacts with DNA which has led to a remarkable range of studies to examine how and how quickly these unstable atoms are accumulated by both humans and biota and their various effects on both Providing an overview of the sources uses and impacts of ionising radiation in the environment and the frameworks developed to manage exposures to them this is a valuable reference for graduate students and researchers interested in radioecology environmental science and radiological protection

Handbook of Arsenic Toxicology Swaran Jeet Singh Flora,2023-02-21 Handbook of Arsenic Toxicology Second Edition presents the latest findings on arsenic including its chemistry sources and effects on the environment and human health The book discusses both acute and chronic effects discussing many aspects of arsenic from physical and chemical properties exposure epidemiology organ toxicity diagnosis prevention and treatment Fully updated and revised this new edition includes new topics on risk assessment molecular mechanisms of arsenic advances in the integrated approach to testing assessment and development evaluation and application of high content predictive models and new alternative methods NAMS in the context of Adverse Outcome Pathways AOPs to assess toxicology This comprehensive resource allows readers to effectively assess the risks related to arsenic providing them with all they need to know on arsenic exposure toxicity and toxicity prevention Brings together current findings on the effects of arsenic on the environment and human health Includes state of the art techniques in arsenic toxicokinetics speciation and molecular mechanisms Provides all the information needed for effective risk assessment prevention and countermeasures

Phytoremediation Brian R. Shmaefsky,2020-03-19 This book

provides in situ phytoremediation strategies that are particularly well suited for developing nations Its goal is to promote the use of field tested phytoremediation methods for removing soil and water pollutants from agricultural industrial military and municipal sources These strategies include using algae and a variety of aquatic and terrestrial plants The book subsequently discusses the use of crops and native plants for phytoremediation and how phytoremediation efforts impact the rhizosphere After having finished the book readers will be able to directly adapt the strategies described here for their specific purposes

Handbook of Differential Scanning Calorimetry Joseph D Menczel, Janusz Grebowicz, 2023-02-22 Differential scanning calorimetry DSC is the most important thermal analysis technique used today and the most common thermal analysis instrument found in chemical characterization laboratories DSC has become an everyday tool in characterization laboratories but many researchers using this technique have a limited understanding of the true breadth of its capabilities Up to now there has been no book that would describe the application of DSC in all the various areas of materials chemistry The Handbook of Differential Scanning Calorimetry has been written to fill that void This book is designed to summarize the knowledge of differential scanning calorimetry so that materials researchers and application chemists are given both a better understanding of techniques as well as a review of the full scope of its capabilities It also discusses how to properly interpret the DSC thermograms data obtained Included in this work is the most up to date information written by some of the leaders in the field It is written not only to help users get the most out of their equipment After reading this book people in all chemical and biological areas will have a broad overview of this measuring technique and will be able to utilize this analytical technique more efficiently Provides a detail description of the theory behind differential scanning while simultaneously providing a wider breadth of understanding of the actual DSC technique Includes a review of the basics of heat flux and power compensation DSC s as well as separate chapters on inorganic and organic materials Reviews the most common commercial DSC instruments on the market and their uses including TA Instruments Perkin Elmer Hitachi Mettler Toledo Netzsch and Setaram

Handbook of Carbon-Based Nanomaterials Sabu Thomas, Sarathchandran C., S.A Ilangovan, Juan Carlos Moreno-Piraján, 2021-07-23 Handbook of Carbon Based Nanomaterials provides a comprehensive overview of carbon based nanomaterials and recent advances in these specialized materials This book opens with a brief introduction to carbon including the different forms of carbon and their range of uses Each chapter systematically covers a different type of carbon based nanomaterial including its individual characteristics synthesis techniques and applications in industry biomedicine and research This book offers a broad handbook on carbon based nanomaterials detailing the materials aspects applications and recent advances of this expansive topic With its global team of contributing authors Handbook of Carbon Based Nanomaterials collates specific technical expertise from around the world for each type of carbon based nanomaterial Due to the broad nature of the coverage this book will be useful to an interdisciplinary readership including researchers in academia and industry in the fields of materials science engineering chemistry energy and biomedical engineering Covers a range of

carbon based nanomaterials including graphene fullerenes and much more Describes key properties synthesis techniques and characterization of each carbon based nanomaterial Discusses a range of applications of carbon based nanomaterials from biomedicine to energy applications

Split By Sun: The Tragic History Of The Sustainocene Thomas Faunce,2018-11-22 A FUTURE EARTH IN WHICH EVERY ROAD AND BUILDING UTILISES NANOTECHNOLOGY TO MAKE CLEAN FUEL FOOD AND FERTILISER JUST FROM WATER SUN AND AIR When agent Jean Moulin investigates the mysterious connections between a murdered woman in Hampstead and assassination attempts on the President of the Whole Earth Council he s led back to the origins of the Global Synthetic Photosynthesis Project in Namibia as well as the forces that wish to destroy it and its visionary eco gendered founder Split by Sun is a witty and poetic novel that explores whether humanity is meant to globally deploy a solar energy technology to progress enforceable rights of ecosystems electronic citizen voting on laws the marriage of corporations to public goods community scale industry the abolition of war and nuclear weapons the facilitation of universal basic income healthcare and education and the replacement of religion with widespread experience of unitive consciousness

The Chemical Element Andrew G. Ede,2006-06-30 One of the most familiar features of any high school chemistry lab is the Periodic Table of Elements Elegant informative useful to any student in the lab the Periodic Table neatly summarizes our scientific knowledge of the chemical elements from hydrogen to uranium and beyond atomic number atomic weight isotopes and more But how did scientists discover all of these features of the elements How did the Periodic Table come to be And even more basically how did the concept of the chemical element come to dominate how scientists understand chemistry This book shows readers the answers to these and other questions regarding the scientific understanding of matter The Chemical Element a volume in the Greenwood Guides to Great Ideas in Science traces the history of this tremendously powerful concept from the ancient philosophers to the present day The volume covers the idea of the elements held by Aristotle and the other ancient Greek philosophers how Chinese Arabic and other ancient civilizations thought about the elements Mendeleyev and the creation of the Periodic Table of Elements the predictive power of which helped in the discovery of dozens of new elements and the discovery of the artificial elements that are heavier than uranium Jargon and mathematics is kept to a minimum and the volumes includes a timeline a glossary and a bibliography making The Chemical Element an ideal resource for students researching chemistry and the history and nature of the scientific understanding of the world around us

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