Nature Chemistry Journal

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The Logic of Categorial Grammars Academic Press
The volumes of this classic series, now referred to simply as "Zechmeister" after its founder, L. Zechmeister, have appeared under the Springer imprint ever since the series was founded in 1938. The volumes contain contributions on various topics related to the origin, distribution, chemistry, synthesis, biochemistry, function or use of various classes of naturally occurring substances ranging from small molecules to biopolymers. Each contribution is written by a recognized authority in his field and provides a comprehensive and up-to-date review of the topic in question. Addressed to biologists, technologists and chemists alike, the series can be used by the expert as a source of information and literature citations and by the non-expert as a means of orientation in a rapidly developing discipline.

Nature-Inspired Computing Columbia University Press
"Write Like a Chemist (2nd ed.) is a one-of-a-kind volume, written to serve as a textbook and resource for chemistry students, post-docs, faculty, and other chemistry professionals. The book focuses on four types of chemistry writing: the journal article, conference abstract, scientific poster, and research proposal. The book includes numerous excerpts from American Chemical Society (ACS) journal articles, ACS conference abstracts, and successful NSF proposals, all serving as excellent models of scientific writing. A model poster is also included. Write Like a Chemist's read-analyze-write approach underscores the importance of reading authentic texts, analyzing them, and using them as models for disciplinary writing. Analyses focus on conciseness, level of detail, and formality; organization; writing conventions; grammar and punctuation; and content expressed in prose and graphics. Exercises are included in each chapter. Together, these features turn the complex process of writing into graduated, achievable tasks. Additional features of the book include the formatting of figures, tables, citations, and references. ACS chemistry writing conventions, as advocated in the ACS Guide to Scholarly Communication (Banik et al., 2020), are modelled throughout. The final chapter provides language tips for "troublesome" aspects of writing. Separate companion websites include materials for students and faculty. For students, "writing on your own" guidance, a downloadable poster template, self-study exercises (with answer keys), and proofreading tips are included. For chemistry faculty, answer keys for book exercises, sample grading rubrics, and teaching tips are provided"--

Chemical Publications, Their Nature and Use MIT Press
Excerpt from A Journal of Natural Philosophy, Chemistry, and the Arts, 1810, Vol. 25 X. On the Nature of the intervertebral Substance in Fish and Quadrupeds. B) Everard Home, Esq. L. R. S. 20. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

The Changing Landscape of Hydrocarbon Feedstocks for Chemical Production John Wiley & Sons
The inspiration provided by biologically active natural products to conceive of hybrids, congeners, analogs and unnatural variants is discussed by experts in the field in 16 highly informative chapters. Using well-documented studies over the past decade, this timely monograph demonstrates the current importance and future potential of natural products as starting points for the development of new drugs with improved properties over their progenitors. The examples are chosen so as to represent a wide range of natural products with therapeutic relevance among others, as anticancer agents, antimicrobials, antifungals, antisense nucleosides, antidiabetics, and analgesics. From the content: * Part I: Natural Products as Sources of Potential Drugs and Systematic Compound Collections * Part II: From Marketed Drugs to Designed Analogs and Clinical Candidates * Part III: Natural Products as an Incentive for Enabling Technologies * Part IV: Natural Products as Pharmacological Tools * Part V: Nature: The Provider, the Enticer, and the Healer

Chemistry, Matter and Life Henry Holt and Company
A decade ago, the U.S. chemical industry was in decline. Of the more than 40 chemical manufacturing plants being built worldwide in the mid-2000s with more than $1 billion in capitalization, none were under construction in the United States. Today, as a result of abundant domestic supplies of affordable natural gas and natural gas liquids resulting from the dramatic rise in shale gas production, the U.S. chemical industry has gone from the world's highest-cost producer in 2005 to among the lowest-cost producers today. The low cost and increased supply of natural gas and natural gas liquids provides an opportunity to discover and develop new catalysts and processes to enable the direct conversion of natural gas and natural gas liquids into value-added chemicals with a lower carbon footprint. The economic implications of developing advanced technologies to utilize and process natural gas

and natural gas liquids for chemical production could be significant, as commodity, intermediate, and fine chemicals represent a higher-economic-value use of shale gas compared with its use as a fuel. To better understand the opportunities for catalysis research in an era of shifting feedstocks for chemical production and to identify the gaps in the current research portfolio, the National Academies of Sciences, Engineering, and Medicine conducted an interactive, multidisciplinary workshop in March 2016. The goal of this workshop was to identify advances in catalysis that can enable the United States to fully realize the potential of the shale gas revolution for the U.S. chemical industry and, as a result, to help target the efforts of U.S. researchers and funding agencies on those areas of science and technology development that are most critical to achieving these advances. This publication summarizes the presentations and discussions from the workshop.

Philosophy of Chemistry Houghton Mifflin Harcourt

Can we emulate nature's technology in chemistry? Through billions of years of evolution, Nature has generated some remarkable systems and substances that have made life on earth what it is today. Increasingly, scientists are seeking to mimic Nature's systems and processes in the lab in order to harness the power of Nature for the benefit of society. Bioinspiration and Biomimicry in Chemistry explores the chemistry of Nature and how we can replicate what Nature does in abiological settings. Specifically, the book focuses on wholly artificial, man-made systems that employ or are inspired by principles of Nature, but which do not use materials of biological origin. Beginning with a general overview of the concept of bioinspiration and biomimicry in chemistry, the book tackles such topics as: Bioinspired molecular machines Bioinspired catalysis Biomimetic amphiphiles and vesicles Biomimetic principles in macromolecular science Biomimetic cavities and bioinspired receptors Biomimicry in organic synthesis Written by a team of leading international experts, the contributed chapters collectively lay the groundwork for a new generation of environmentally friendly and sustainable materials, pharmaceuticals, and technologies. Readers will discover the latest advances in our ability to replicate natural systems and materials as well as the many impediments that remain, proving how much we still need to learn about how Nature works. Bioinspiration and Biomimicry in Chemistry is recommended for students and researchers in all realms of chemistry. Addressing how scientists are working to reverse engineer Nature in all areas of chemical research, the book is designed to stimulate new discussion and research in this exciting and promising field.

Selected Topics in the Chemistry of Natural Products Elsevier

'Total Synthesis of Natural Products' is written and edited by some of today's leaders in organic chemistry. Eleven chapters cover a range of natural products, from steroids to alkaloids. Each chapter contains an introduction to the natural product in question, descriptions of its biological and pharmacological properties and outlines of total synthesis procedures already carried out. Particular emphasis is placed on novel methodologies developed by the respective authors and their research groups. This text is ideal for graduate and advanced undergraduate students, as well as organic chemists in academia and industry.

Silent Spring Springer

This book is important because it is the first textbook in an area that has become very popular in recent times. There are around 250 research groups in crystal engineering worldwide today. The subject has been researched for around 40 years but there is still no textbook at the level of senior undergraduates and beginning PhD students. This book is expected to fill this gap.The writing style is simple, with an adequate number of exercises and problems, and the diagrams are easy to understand. This book consists major areas of the subject, including organic crystals and co-ordination polymers, and can easily form the basis of a 30 to 40 lecture course for senior undergraduates.

Letters to a Young Chemist National Academies Press

Advances in Stem Cells and Their Niches addresses stem cells during development, homeostasis, and disease/injury of the respective organs, presenting new developments in the field, including new data on disease and clinical applications. Video content illustrates such areas as protocols, transplantation techniques, and work with mice. Explores not only reviews of research, but also shares methods, protocols, and transplantation techniques Contains video content to illustrate such areas as protocols, transplantation techniques, and work with mice Each volume concentrates on one organ, making this a unique publication

Frontiers in Chemistry: Rising Stars Oxford University Press

The essential, cornerstone book of modern environmentalism is now offered in a handsome 40th anniversary edition which features a new Introduction by activist Terry Tempest Williams and a new Afterword by Carson biographer Linda Lear.

A Journal of Natural Philosophy, Chemistry, and the Arts Reaktion Books

This second edition of the original volume adds significant new innovations for revolutionizing the processes and methods used in petroleum reservoir simulations. With the advent of shale drilling, hydraulic fracturing, and underbalanced drilling has come a virtual renaissance of scientific methodologies in the oil and gas industry. New ways of thinking are being pioneered, and Dr. Islam and his team have, for years now, been at the forefront of these important changes. This book clarifies the underlying mathematics and physics behind reservoir simulation and makes it easy to have a range of simulation results along with their respective probability. This makes the risk analysis based on knowledge rather than guess work. The book offers by far the strongest tool for engineers and managers to back up reservoir simulation predictions with real science. The book adds transparency and ease to the process of reservoir simulation in way never witnessed before. Finally, No other book provides readers complete access to the 3D, 3-phase reservoir simulation software that is available with this text. A must-have for any reservoir engineer or petroleum engineer working upstream, whether in exploration, drilling, or production, this text is also a valuable textbook for advanced students and graduate students in petroleum or chemical engineering departments.

Relativistic Electronic Structure Theory Univ of California Press

The series Topics in Current Chemistry presents critical reviews of the present and future trends in modern chemical research. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented

using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field. Review articles for the individual volumes are invited by the volume editors. Readership: research chemists at universities or in industry, graduate students.

Roald Hoffmann on the Philosophy, Art, and Science of Chemistry Springer Nature

Natural products play an integral and ongoing role in promoting numerous aspects of scientific advancement, and many aspects of basic research programs are intimately related to natural products. With articles written by leading authorities in their respective fields of research, Studies in Natural Products Chemistry, Volume 37 presents current frontiers and future guidelines for research based on important discoveries made in the field of bioactive natural products. It is a valuable source for researchers and engineers working in natural products and medicinal chemistry. Describes the chemistry of bioactive natural products Contains contributions by leading authorities in the field A valuable source for researchers and engineers working in natural product and medicinal chemistry

Nature of Science in General Chemistry Textbooks University of Chicago Press

This book presents specific key natural and artificial systems that are promising biocatalysts in the areas of health, agriculture, environment and energy. It provides a comprehensive account of the state of the art of these systems and outlines the significant progress made in the last decade using these systems to develop innovative, sustainable and environmentally friendly solutions. Chapters from expert contributors explore how natural enzymes and artificial systems tackle specific targets such as: climate change, carbon footprint and economy and carbon dioxide utilisation; nitrogen footprint and fixation and nitrous oxide mitigation; hydrogen production, fuel cells and energy from bacteria; biomass transformation and production of added-value compounds, as well as biosensors development. This book provides an important and inspiring account for the designing of new natural and artificial systems with enhanced properties, and it appeals not only to students and researchers working in the fields of energy, health, food and environment, but also to a wider audience of educated readers that are interested in these up-to-date and exciting subjects. Chapter “Carbon Dioxide Utilisation—The Formate Route” is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Natural Products in Medicinal Chemistry Pelagic Publishing Ltd

This book is intended for students in computer science, formal linguistics, mathematical logic and to colleagues interested in categorial grammars and their logical foundations. These lecture notes present categorial grammars as deductive systems, in the approach called parsing-as-deduction, and the book includes detailed proofs of their main properties. The papers are organized in topical sections on AB grammars, Lambek's syntactic calculus, Lambek calculus and montague grammar, non-associative Lambek calculus, multimodal Lambek calculus, Lambek calculus, linear logic and proof nets and proof nets for the multimodal Lambek calculus.

Nature Royal Society of Chemistry

Better posters mean better research. Distilling over a decade of experience from the popular Better Posters blog, Zen Faulkes will help you create a clear and informative conference poster that delivers maximum impact. Academics have used posters to share research for more than five decades, and tens of thousands of posters are presented at conferences every year. Despite the popularity of the format, no in-depth guide has been available on how to create and deliver compelling conference posters. From over-long titles, tiny text and swarms of logos, to bad font choices, chaotic colour schemes and blurry images – it's easy to leave viewers confused about your poster's message. The solution is Better Posters: a comprehensive guide to everything you need to know – from writing a title and submitting an abstract, to designing the poster and finally presenting it in the poster session. Your conference poster will be one of your first research outputs, and the poster session is your first introduction to a professional community. Making a great poster develops the skills to create publications, reports, outreach and teaching materials throughout your career. This book also has material for conference organizers on how to make a better poster session for their attendees.

Write Like a Chemist Oxford University Press

Many of the scientific breakthroughs of the twentieth century were first reported in the journal Nature. A Century of Nature brings together in one volume Nature's greatest hits—reproductions of seminal contributions that changed science and the world, accompanied by essays written by leading scientists (including four Nobel laureates) that provide historical context for each article, explain its insights in graceful, accessible prose, and celebrate the serendipity of discovery and the rewards of searching for needles in haystacks.

A Century of Nature Springer

This text provides a comprehensive summary of where natural product chemistry is today in drug discovery. It covers emerging technologies and case studies and is a source of up-to-date information on the topical subject of natural products.

Crystal Engineering: A Textbook Springer Science & Business Media

A New York Times Notable Book for 2011 A Globe and Mail Best Books of the Year 2011 Title A Kirkus Reviews Best Nonfiction of 2011 title Virtually all human societies were once organized tribally, yet over time most developed new political institutions which included a central state that could keep the peace and uniform laws that applied to all citizens. Some went on to create governments that were accountable to their constituents. We take these institutions for granted, but they are absent or are unable to perform in many of today's developing countries—with often disastrous consequences for the rest of the world. Francis Fukuyama, author of the bestselling The End of History and the Last Man and one of our most important political thinkers, provides a sweeping account of how today's basic political institutions developed. The first of a major two-volume work, The Origins of Political Order begins with politics among our primate ancestors and follows the story through the emergence of tribal societies, the growth of the first modern state in China, the beginning of the rule of law in India and the Middle East, and the development of political accountability in

Europe up until the eve of the French Revolution. Drawing on a vast body of knowledge—history, evolutionary biology, archaeology, and economics—Fukuyama has produced a brilliant, provocative work that offers fresh insights on the origins of democratic societies and raises essential questions about the nature of politics and its discontents.

Contemporary Chemistry Springer

What ' s it really like to be a chemist? Leading chemists share what they do, how they do it, and why they love it. " Letters to a young ... " has been a much-loved way for professionals in a field to convey their enthusiasm and the realities of what they do to the next generation. Now, Letters to a Young Chemist does the same for the chemical sciences. Written with a humorous touch by some of today ' s leading chemists, this book presents missives to " Angela, " a fictional undergraduate considering a career in chemistry. The different chapters offer a mix of fundamental principles, contemporary issues, and challenges for the future. Marye Anne Fox, Chancellor of the University of California San Diego, talks about learning to do research and modern physical organic chemistry. Brothers Jonathan and Daniel Sessler explain the chemistry of anesthetics that make modern surgery possible while Elizabeth Nolan talks about biological imaging. Terry Collins talks about green chemistry, a more sustainable way of doing chemistry, while several authors including Carl Wamser, Harry Gray, John Magyar, and Penny Brothers discuss the crucial contributions that chemists can make in meeting global energy needs. Letters to a Young Chemist gives students and professionals alike a unique window into the real world of chemistry. Entertaining, informative, and full of honest and inspiring advice, it serves as a helpful guide throughout your education and career. " The different chapters describe both the wonders of the molecular world and the practical benefits afforded by chemistry ... and if any girl out there thinks that chemistry is a man ' s world, this book should be a good antidote. " —Marye Anne Fox, Chancellor of the University of California, San Diego, and winner of the 2009 US National Medal of Science " Letters to a Young Chemist offers significant ammunition for motivating young people to consider chemistry as a career. ... This book should also be required reading for all faculty members who teach chemistry in high schools, colleges, and universities. " —Stephen J. Lippard, Arthur Amos Noyes Professor of Chemistry, Massachusetts Institute of Technology, and winner of the 2006 US National Medal of Science