

nature communications impact factor

nature communications impact factor is a critical metric that reflects the influence and prestige of the journal within the scientific community. As a multidisciplinary journal published by the Nature Publishing Group, Nature Communications has gained substantial recognition for its rigorous peer-review process and high-quality research articles. The impact factor provides insight into the average number of citations received by articles published in the journal, serving as a key indicator for researchers, institutions, and funding bodies to assess the journal's relevance and authority. Understanding the nature communications impact factor helps authors decide where to submit their manuscripts and aids readers in identifying influential sources of scientific knowledge. This article delves into the details of the journal's impact factor, its calculation methodology, factors influencing it, and its significance in the academic publishing landscape. Additionally, the article examines the trends and comparisons with other journals in related fields.

- Understanding Nature Communications Impact Factor
- Calculation Methodology of Impact Factor
- Factors Influencing Nature Communications Impact Factor
- Significance of Impact Factor in Academic Publishing
- Comparison with Other Scientific Journals
- Trends and Future Outlook

Understanding Nature Communications Impact Factor

The nature communications impact factor serves as a quantitative measure of the average citations per paper published in the journal over a specific period, typically two years. It reflects the journal's prominence and the widespread recognition of its published research within various scientific disciplines. Nature Communications publishes articles spanning biology, chemistry, physics, earth sciences, and interdisciplinary research, which contributes to its broad citation base. The impact factor is widely used by researchers to gauge the visibility and potential reach of their work when considering submission options.

Overview of Nature Communications Journal

Nature Communications is an open-access journal that emphasizes high-quality research across a wide range of scientific fields. Since its inception, it has established itself as a leading platform for groundbreaking studies and significant scientific advancements. The journal's commitment to transparency, accessibility, and rigorous peer review has made it a preferred choice for authors seeking to maximize the impact of their research.

Definition of Impact Factor

Impact factor is defined by calculating the average number of citations received in a particular year by articles published in the journal during the preceding two years. It is a widely accepted metric provided by Clarivate Analytics through the Journal Citation Reports, which serves as a benchmark for journal quality within the academic community.

Calculation Methodology of Impact Factor

The process of calculating the nature communications impact factor involves a precise formula that considers citations and citable items published within a defined timeframe. This section explains the methodology to provide a clear understanding of how the impact factor is derived and its implications for the journal's evaluation.

Formula for Impact Factor Calculation

The impact factor is computed using the following formula:

1. The numerator counts the total citations in the current year to articles published in the previous two years.
2. The denominator includes the number of citable items (articles, reviews, proceedings) published during those two years.

Thus, the impact factor represents the average citations per citable article within the two-year window.

Citable Items and Citation Counts

Not all published content is considered citable. Editorials, letters, and news items are typically excluded from the denominator. Only original research articles, reviews, and substantial contributions are counted. Citation counts include references from all journals indexed in the Web of Science database to the specified items.

Factors Influencing Nature Communications Impact Factor

Several elements affect the nature communications impact factor, ranging from the journal's editorial policies to the nature of the research it publishes. Understanding these factors helps clarify why the impact factor may fluctuate over time and how the journal maintains or improves its standing.

Scope and Interdisciplinary Nature

Because Nature Communications covers diverse scientific disciplines, it attracts citations from a wide array of research communities. This interdisciplinary scope increases the likelihood of citations, contributing positively to its impact factor. Journals with a narrower focus often experience more limited citation pools.

Publication Volume and Article Quality

The number of articles published annually can influence the impact factor. Publishing too many articles may dilute citations per paper, while maintaining high-quality standards ensures that published articles garner more citations. Nature Communications carefully balances publication volume and quality to optimize its impact factor.

Open Access Model

As an open-access journal, Nature Communications provides unrestricted access to its content, which often results in higher visibility and citation rates. Open access facilitates broader dissemination and can positively impact the journal's citation metrics and impact factor.

Editorial and Peer Review Standards

Rigorous peer review and editorial selection ensure that only scientifically robust and novel research is published. This rigorous quality control attracts citations from other researchers who rely on trustworthy and influential studies, thereby supporting a strong impact factor.

Significance of Impact Factor in Academic Publishing

The nature communications impact factor holds considerable significance in the academic publishing ecosystem. It is a key metric used by authors, institutions, and funding agencies to evaluate journal prestige and research influence.

Influence on Author Submission Decisions

Researchers often consider the impact factor when selecting journals for submission, as it reflects the potential visibility and recognition their work may receive. A higher impact factor typically correlates with greater prestige and wider readership.

Role in Academic Evaluation and Funding

Institutions and funding bodies use impact factors as part of the criteria to assess research quality and academic performance. Publications in high-impact journals like Nature Communications can enhance researchers' career prospects and grant success rates.

Criticism and Limitations

While influential, the impact factor has limitations and has faced criticism for overemphasis on citation counts, potential manipulation, and neglect of article-level metrics. It should be considered alongside other indicators to provide a comprehensive assessment of research impact.

Comparison with Other Scientific Journals

Comparing the nature communications impact factor with those of similar journals helps contextualize its standing within the scientific publishing world. This section highlights key comparisons that demonstrate the journal's competitive position.

Impact Factor Relative to Other Nature Journals

Nature Communications' impact factor is generally lower than some flagship journals like Nature or Nature Reviews series but remains highly competitive among multidisciplinary open-access journals. Its broad scope and rigorous standards contribute to a strong citation profile.

Comparison with Other Multidisciplinary Journals

Journals such as Science Advances, PLOS ONE, and Proceedings of the National Academy of Sciences (PNAS) are often compared with Nature Communications. While each journal has unique editorial policies and scopes, Nature Communications consistently ranks among the top-tier multidisciplinary journals based on impact factor metrics.

- Nature Communications: High impact factor with broad interdisciplinary coverage and open access.
- Science Advances: Similar multidisciplinary approach with a strong citation record.
- PLOS ONE: High publication volume but comparatively lower impact factor.
- PNAS: Established journal with a significant impact factor and broad scientific reach.

Trends and Future Outlook

The nature communications impact factor has demonstrated a steady upward trend reflecting the journal's growing influence and expanding scientific contributions. Future developments in publishing practices, open science initiatives, and citation behaviors will likely continue to shape its impact factor trajectory.

Emerging Trends in Citation Patterns

Increasing collaboration across disciplines and the rise of digital dissemination platforms contribute to evolving citation dynamics. Nature Communications is well-positioned to benefit from these trends due to its multidisciplinary scope and open-access model.

Potential Impact of Alternative Metrics

Alternative metrics, such as article-level metrics, altmetrics, and usage statistics, are gaining prominence alongside traditional impact factors. While the impact factor remains important, these new metrics provide complementary insights into research influence and engagement.

Frequently Asked Questions

What is the current impact factor of Nature Communications?

As of 2023, the impact factor of Nature Communications is approximately 17.7, reflecting its high influence in the scientific community.

How often is the Nature Communications impact factor updated?

The impact factor of Nature Communications is updated annually by Clarivate Analytics and published in the Journal Citation Reports each year.

Why is the Nature Communications impact factor considered important?

The impact factor is a metric that indicates the average number of citations to articles published in Nature Communications, helping researchers gauge the journal's prestige and influence.

How does Nature Communications' impact factor compare to other Nature journals?

Nature Communications has a lower impact factor than the flagship journal Nature, but it remains one of the highest among open-access multidisciplinary journals.

Can the impact factor of Nature Communications affect where researchers choose to publish?

Yes, many researchers consider the impact factor when selecting a journal to publish in, as higher impact factors often indicate wider visibility and recognition.

Where can I find the official impact factor for Nature Communications?

The official impact factor for Nature Communications can be found in the Journal Citation Reports provided by Clarivate Analytics or on the journal's official website.

Does the open-access nature of Nature Communications influence its impact factor?

Yes, being an open-access journal allows Nature Communications articles to be freely accessible, which can increase readership and citation rates, positively influencing its impact factor.

Additional Resources

1. *Understanding Impact Factors in Scientific Publishing*

This book provides a comprehensive overview of impact factors, explaining their calculation, significance, and limitations in the world of academic publishing. It delves into how impact factors influence researchers' decisions and the reputation of scientific journals. The book also discusses alternative metrics and the future of research evaluation.

2. *Nature Communications: A Model for Open Access Success*

Focusing specifically on the journal Nature Communications, this book explores its rise to prominence as a leading open access journal. It highlights the journal's editorial policies, peer review process, and strategies for maintaining high impact. Readers gain insight into how Nature Communications balances quality, accessibility, and impact.

3. *Metrics and Impact: Evaluating Scientific Research*

This title examines various metrics used to assess scientific research impact beyond traditional impact factors. It covers citation analysis, altmetrics, and usage statistics, providing a broad perspective on measuring research influence. The book is intended for researchers, librarians, and policymakers interested in scholarly communication.

4. *The Evolution of Scientific Publishing and Journal Impact*

Tracing the history of scientific publishing, this book discusses how journals have evolved in their roles and impact over time. It addresses changes brought by digital technology, open access movements, and shifts in peer review. The work offers context for understanding contemporary impact factor debates.

5. *Open Access and Its Impact on Scientific Communication*

This book explores the rise of open access publishing and its effects on the dissemination and impact of scientific knowledge. It analyzes case studies, including Nature Communications, to demonstrate how open access influences citation rates and research visibility. The discussion includes economic, ethical, and practical aspects of open access.

6. *Citation Dynamics and the Impact of Multidisciplinary Journals*

Focusing on multidisciplinary journals like Nature Communications, this book investigates how citations accumulate across diverse research fields. It explains the complexities in measuring impact for journals that publish a wide range of scientific topics. The book offers strategies for researchers

and editors to maximize the influence of multidisciplinary work.

7. Research Impact and Academic Career Advancement

This book links the concept of research impact to academic career progression, highlighting the role of publishing in high-impact journals such as Nature Communications. It offers guidance on navigating publication strategies, understanding metrics, and leveraging impact for funding and promotion. The text is valuable for early-career researchers.

8. Peer Review and Quality Control in High-Impact Journals

Examining the peer review process, this book details how high-impact journals maintain rigorous standards to ensure quality and credibility. It includes insights into editorial decision-making, reviewer roles, and ethical considerations. The volume also discusses challenges facing peer review in the digital age.

9. The Future of Impact Metrics in a Changing Research Landscape

Looking ahead, this book speculates on the evolution of impact metrics amid changing research practices and technological advances. It evaluates emerging tools like AI-driven analytics and discusses potential reforms to better capture research influence. The book encourages readers to think critically about the metrics that shape science.

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nature communications impact factor: *Unreliable* Csaba Szabo, 2025-03-11 Reproducibility is fundamental to the scientific method. After reading a paper describing research findings, a scientist should be able to repeat the experiment and obtain the same results. Yet an alarming number—perhaps as high as 90 percent—of published biomedical research papers face challenges in independent replication. Such issues range from honest mistakes to outright fraud. The scope of this crisis, however, underscores deeper systemic issues within the scientific community: its culture, incentives, and institutions. In *Unreliable*, the distinguished scientist Csaba Szabo examines the causes and consequences of the reproducibility crisis in biomedical research, showing why the factors that encourage misconduct stem from flaws in real-world science. There are many culprits, including commonplace research methods and dubious statistical techniques. Academic career incentives, hypercompetition for grant funding, and a bias toward publishing positive results have exacerbated the problem. Deliberate data manipulation and fabricated findings churned out by “paper mills” are disturbingly common. Academic institutions and publishers, for their part, have perpetuated a culture of impunity. Szabo explores how these failures have hindered scientific progress and impeded the development of new treatments, and he introduces readers to the “science sleuths” who tirelessly uncover misconduct. He proposes comprehensive reforms, from scientific training to the grant system through the publication process, to address the root causes of the crisis. Written in clear language and leavened with a keen sense of irony, *Unreliable* is an essential account of the reproducibility crisis that gives readers an inside look at how science is actually done.

nature communications impact factor: Access to History: The Changing Nature Of Warfare 1792-1945 for OCR Mike Wells, Nicholas Fellows, 2017-02-13 Exam Board: AQA, Edexcel, OCR & WJEC Level: A-level Subject: History First Teaching: September 2015 First Exam: June 2016 Give your students the best chance of success with this tried and tested series, combining in-depth analysis, engaging narrative and accessibility. Access to History is the most popular, trusted and wide-ranging series for A-level History students. This title: - Supports the content and assessment requirements of the 2015 A-level History specifications - Contains authoritative and engaging content - Includes thought-provoking key debates that examine the opposing views and approaches of historians - Provides exam-style questions and guidance for each relevant specification to help students understand how to apply what they have learnt This title is suitable for a variety of courses including: - OCR: The Changing Nature of Warfare 1792-1945

nature communications impact factor: Nature Sir Norman Lockyer, 1922

nature communications impact factor: *Factors Affecting Neurodevelopment* Colin R. Martin, Victor R Preedy, Rajkumar Rajendram, 2021-05-29 *Factors Affecting Neurodevelopment: Genetics, Neurology, Behavior, and Diet* is a comprehensive reference on the genetic and behavioral features associated with proper and abnormal development. The book discusses the mechanisms underlying neurological development and provides readers with a detailed introduction to the neural connections and complexities in biological circuitries, as well as the physiological, behavioral, molecular, and cellular features of neurodevelopment. In addition, the book examines in vitro and in vivo modeling of development with stem cells and model systems. - Provides the most comprehensive coverage of a broad range of topics relating to the neuroscience of development - Features sections on the genetics of developmental conditions and accompanying behavior - Contains an abstract, key facts, mini dictionary of terms, and summary points to aid in understanding in each chapter - Focuses on neurodevelopmental disorders and environmental factors that influence neural development - Includes more than 500 illustrations and tables

nature communications impact factor: *TEXT BOOK OF RESEARCH METHODOLOGY* Prof. (Dr.) Mukesh Chandra Sharma , Dr. Prashant Vishnu Ajmire, Dr. Manoj Kumar Katual, Vandana Bhatia, Dr Swati Rana, 2025-01-10 *Textbook of Research Methodology* is an essential guide for students and researchers, providing a comprehensive understanding of research fundamentals. The book is systematically organized into nine chapters, covering the foundational aspects of research, including its meaning, objectives, and motivation, along with concepts like theory, empiricism, and the scientific method. Readers are introduced to the intricacies of problem identification and hypothesis formulation, with detailed explanations of null and alternative hypotheses, and the importance of hypothesis testing. The chapter on research design explores various types, such as exploratory, descriptive, and experimental designs, emphasizing their features and applications. Qualitative and quantitative research methodologies are thoroughly explained, highlighting key concepts like causality, generalization, and replication. The book also delves into measurement techniques, addressing challenges in validity, reliability, and different levels of measurement, such as nominal, ordinal, interval, and ratio scales. Sampling techniques are extensively discussed, including probability sampling methods like simple random sampling, stratified sampling, and multi-stage sampling, with practical insights on determining sample size and addressing sampling errors. Data analysis is covered with a focus on univariate and bivariate methods, such as cross-tabulations and chi-square tests, aiding readers in hypothesis testing and statistical interpretation. The final chapters guide researchers on paper writing, ethical publishing practices, and the use of modern tools like reference management software, LaTeX, and plagiarism detection tools. This textbook serves as a valuable resource for understanding the research process, making it an indispensable companion for academic and professional pursuits.

nature communications impact factor: *Communication and Sustainable Development* , 2007-01-01 *Communication for Development* is about dialogue, participation and the sharing of knowledge and information among people and institutions. The 9th UN Roundtable (Rome, September 2004), focused on Communication and sustainable development and addressed three key

inter-related themes that are central to this issue: Communication in Research, Extension and Education; Communication for Natural Resource Management; and Communication for isolated and Marginalized Groups. The selection of key note papers presented in this publication offers views and perspectives that contribute to these themes.

nature communications impact factor: *Peer review in scientific publications* Great Britain: Parliament: House of Commons: Science and Technology Committee, 2011-07-28 This report indicates that the oversight of research integrity in the UK is unsatisfactory. The Science and Technology Committee concludes that in order to allow others to repeat and build on experiments, researchers should aim for the gold standard of making their data fully disclosed and made publicly available. The report examines the current peer-review system as used in scientific publications and the related issues of research impact, data management, publication ethics and research integrity. The UK does not seem to have an oversight body for research integrity covering advice and assurance functions across all disciplines and the Committee recommends the creation of an external regulator. It also says all UK research institutions should have a specific member of staff leading on research integrity. The report highlights concerns about the use of journal Impact Factor as a proxy measure for the quality of research or of individual articles. Innovative ways to improve current pre-publication peer-review practices are highlighted in the report, including the use of pre-print servers, open peer review, increased transparency and online repository-style journals. The growth of post-publication peer review and commentary also represents an enormous opportunity for experimentation with new media and social networking tools, which the Committee encourages. There should also be greater recognition of the work-sometimes considered to be a burden-carried out by reviewers, by both publishers and employers. In order to do this, publishers need to have in place systems for recording and acknowledging the contribution of those involved in peer review.

nature communications impact factor: Gut Microbiome and Its Impact on Health and Diseases Debabrata Biswas, Shaik O. Rahaman, 2020-08-27 This book provides a comprehensive examination of the role of gut microbiome/microflora in nutrition, metabolism, disease prevention and health issues, including farm animal health and food value, and human gastrointestinal health and immunity. Indigenous microbiotas, particularly the gut microflora/microbiome, are an essential component in the modern concept of human and animal health. The diet and lifestyle of the host and environment have direct impact on gut microflora and the patterns of gut microbial colonization associated with health and diseases have been documented. Contributing authors cover the impact of gut microbiome in farm animal health, and explore the possibility of modulating the human gut microbiome with better animal products to prevent human diseases, including endemic and emerging diseases such as obesity, cancer and cardiac diseases. Dieting plan and control methods are examined, with attention paid to balance dieting with natural food and drink components. In addition, the role of gut microbiota in enteric microbial colonization and infections in farm animals is also discussed. The volume also explores the possibility of improving human health by modulating the microbiome with better food, including bio-active foods and appropriate forms of intake. Throughout the chapters, authors examine cutting edge research and technology, as well as future directions for better practices regarding emerging issues, such as the safety and production of organic food.

nature communications impact factor: **The Evolutionary Roots of Human Brain Diseases** Nico J. Diederich, Martin Brüne, Katrin Amunts, Christopher G. Goetz, Professor of Neurological Sciences and Pharmacology Christopher G Goetz, 2024 Traditionally, studies and textbooks in Neurology or Psychiatry, as well as allied disciplines, deal with proximate causes of diseases and therapies, but remain mute or minimally interested in their ultimate causes including the phylogeny and adaptive significance of disease manifestations. Yet, as clinicians or basic researchers, we are conscious of potential evolutionary roots of neurological and psychiatric symptoms, often offering a rudimentary explanation but never delving deeply into the current role of evolutionary science as it relates to health and disease. We may miss appreciation of the role of adaptive properties, evolutionarily based neuronal circuitries, unbalanced cellular energy demands,

and the potential health consequences of residual syndromic behaviors that were possibly useful in early times of human development, but presently are obsolete and pathological. The problem is amplified, because there is often no interdisciplinary dialogue between anthropology and evolutionary biology on one side and clinical sciences on the other side. However, the evolutionary tracing back of disease pathways may disclose unexpected insights and trigger the design of innovative research as well as propel the development of new therapeutic interventions. There could also be a better apprehension of compensatory behaviors, both at the cellular level as well as the systemic the behavioural levels, that could be the expected fruits of such collaborations. So far scientists fall short in modeling the complexity of human (social) life, human language, or manual dexterity, and mental or emotional behaviors that typify human neurological or psychological function and dysfunction. Finally, there remain obstacles in the form of poor animal modeling for human brain diseases and for human longevity. The present book aims to fill these gaps by presenting an evolutionary view of neurological and psychiatric conditions that is meant to complement and enrich existing medical perspectives--

nature communications impact factor: Health Technologies and Informatics Charles Oluwaseun Adetunji, Segun Fatumo, Kingsley Nnanna Ukwaja, 2024-12-16 Health Technologies and Informatics: Research and Developments provides a comprehensive overview of mobile health applications, biodata management and analytics, medical imaging, personalized and public health systems, and biosignal processing. With a focus on medical informatics, which has been identified as a necessity relating to health challenges relevant to the current pandemic, this book highlights engineering applications and methodologies involved in data evaluations. Detailed information is provided on diseases which could be monitored and necessary intervention for the treatment of these diseases or medical conditions. Features: Provides recent advances on research and developments in the field of biomedical and health informatics Introduces topics such as mobile messaging, objectified information exchange, SmartCare, IoT-driven healthcare, cybersecurity issues, AI-enhanced healthcare, and so forth Covers novel engineering applications and methodologies involved in the pertinent data evaluations Includes dedicated chapters on machine learning in management and mitigation of COVID-19 Explores the role of extended reality in health care including virtual, augmented, and mixed reality This book is aimed at researchers and graduate students in biomedical and computer engineering.

nature communications impact factor: The Changing Nature of Telecommunications/Information Infrastructure Steering Committee on the Changing Nature of Telecommunications/Information Infrastructure, Computer Science and Telecommunications Board, National Research Council, 1995-04-10 Advancement of telecommunications and information infrastructure occurs largely through private investment. The government affects the rate and direction of this progress through regulation and public investment. This book presents a range of positions and perspectives on those two classes of policy mechanism, providing a succinct analysis followed by papers prepared by experts in telecommunications policy and applications.

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nature communications impact factor: Proceedings of the 2nd International Academic Conference on Blockchain, Information Technology and Smart Finance (ICBIS 2023) Jerome Yen, Mohammad Zoynul Abedin, Wan Azman Saini Bin Wan Ngah, 2023-07-25 This is an open access

book. With the rapid development of modern economy and Internet technology, the traditional financial industry has to develop Internet finance to provide better services and meet the needs of the times. It is against this background that the blockchain, relying on its special advantages (collective maintenance, reliable databases, and decentralization), provides the reliability to solve the credit risk of Internet finance, has an impact on institutions, trust mechanisms, risk control, etc. in the Internet finance industry, and has derived more new application scenarios, thus paving the way for the development of finance in the Internet era. Applying blockchain technology to the financial field can promote data information sharing, improve value transmission efficiency, and enhance database security. The financial market based on the decentralized system of blockchain technology can reduce the operating costs of financial institutions, improve economic efficiency, and solve problems such as information asymmetry. The new financial business model of blockchain+finance is conducive to improving the Internet credit reporting system, preventing and controlling Internet financial risks, and further realizing financial disintermediation. At present, in China's financial field, blockchain technology has been applied and innovated in supply chain finance, cross-border payment, trade finance, asset securitization and other scenarios. To promote the exchange and development of blockchain, information technology and financial experts and scholars. The 2nd International Academic Conference on Blockchain, Information Technology and Smart Finance (ICBIS 2023) will be held in Hangzhou from February 17 to 19, 2023. This conference mainly focuses on the latest research on blockchain, information technology and smart finance. This conference brings together experts, scholars, researchers and relevant practitioners in this field from all over the world to share research results, discuss hot issues, and provide participants with cutting-edge scientific and technological information, so that you can timely understand the development trends of the industry and master the latest technologies, broaden research horizons and promote academic progress.

nature communications impact factor: Global Perspectives on Climate Change, Social Resilience, and Social Inclusion Galaby, Aly Abdel Razek, Abo ElEnein, Mohammed, Mohamed, Hassan, 2024-01-04 The world is confronting the reality of climate change, which transcends geographical boundaries, necessitating a multidisciplinary approach. Effective mitigation strategies for climate change demand diversity, inclusion, equity, and collaboration as paramount considerations in the formulation and execution of mitigation strategies. Global Perspectives on Climate Change, Social Resilience, and Social Inclusion illuminates the interplay between climate shifts and society's complex tapestry. Authored by leading sociologists and interdisciplinary scholars, this researched volume offers an exploration of climate change through the lens of sociology, unveiling its implications for our global community. Moreover, the book spotlights the proactive voices of voluntary associations and activists dedicated to championing climate change victims' rights. Their collective message resonates throughout: mitigating climate change risks must be integrated into a broader framework of resilient development, elevating the economic standing and quality of life for disadvantaged groups while fostering equity across all strata of society. This book is ideal for scholars, policymakers, and activists seeking a nuanced understanding of the intricate interplay between climate change and the social fabric of our world.

nature communications impact factor: Biomimetic Nanomaterials Bing Ni, Zhicheng Zhang, 2025-08-05 An accurate and authoritative discussion of the structure, fabrication, and applications of biomimetic materials In Biomimetic Nanomaterials: Inorganic and Macromolecular Structures, Catalytic Processes, a team of distinguished researchers delivers an up-to-date discussion of select emerging topics in nature-inspired approaches to biomimetic nanomaterials. The authors focus on two core subjects: mimicking biological structures and replicating biological functions. The book begins with an exploration of bio-inorganic structures and biomineralization processes, including biominerals and bio-inspired architectures like aerogels and chiral nanoparticles. It continues on to discuss biomacromolecule-based materials and synthetic mimics, as well as their structural and functional attributes. Finally, it covers bio-inspired functional materials, including nanozymes and catalytic systems for applications, like artificial photosynthesis, CO₂

conversion, and N₂ fixation. Readers will also find: A thorough introduction to the foundational concepts and the latest developments in biomimetic nanomaterials Comprehensive explorations of the latest applications of biomimetic nanomaterials, including artificial muscles, protective coatings, and catalytic processes Practical discussions of the structures of biomimetic inorganic nanomaterials, like biominerals, biomorphs, artificial plastic materials, and chiral nanoparticles Complete treatments of particularly remarkable uses of biomimetic materials, including water splitting catalysis nanozymes Perfect for materials scientists, bioinorganic chemists, and biotechnologists, Biomimetic Nanomaterials will also benefit bioengineers, polymer chemists, and biochemists.

nature communications impact factor: Sustainable Agriculture under Drought Stress

Hassan Etesami, Yinglong Chen, 2024-10-18 Sustainable Agriculture under Drought Stress: Integrated Soil, Water and Nutrient Management seamlessly blends cutting-edge research with practical applications, offering a unique perspective on tackling this urgent challenge. Through a multidisciplinary lens, this book provides a cohesive and comprehensive understanding of both the current landscape and future prospects. Readers will find this book equips them with the knowledge and strategies required to manage soil nutrients and water effectively, ensuring the health of both soil and plants, especially in arid and semi-arid regions, where solutions are urgently needed. This book offers actionable insights into mitigating the impacts of climate change on agricultural systems, making it essential reading for anyone invested in sustainable land management and food security. - Clarifies mechanisms and proposes solutions for enhancing soil health and fertility, irrigation management, and crop production in drought-stressed environments - Presents a diverse array of options for responding to drought stress, optimizing plant health and furthering sustainability - Explores emerging cropping systems and opportunities

nature communications impact factor: Systems Medicine , 2020-08-24

Technological advances in generated molecular and cell biological data are transforming biomedical research. Sequencing, multi-omics and imaging technologies are likely to have deep impact on the future of medical practice. In parallel to technological developments, methodologies to gather, integrate, visualize and analyze heterogeneous and large-scale data sets are needed to develop new approaches for diagnosis, prognosis and therapy. Systems Medicine: Integrative, Qualitative and Computational Approaches is an innovative, interdisciplinary and integrative approach that extends the concept of systems biology and the unprecedented insights that computational methods and mathematical modeling offer of the interactions and network behavior of complex biological systems, to novel clinically relevant applications for the design of more successful prognostic, diagnostic and therapeutic approaches. This 3 volume work features 132 entries from renowned experts in the fields and covers the tools, methods, algorithms and data analysis workflows used for integrating and analyzing multi-dimensional data routinely generated in clinical settings with the aim of providing medical practitioners with robust clinical decision support systems. Importantly the work delves into the applications of systems medicine in areas such as tumor systems biology, metabolic and cardiovascular diseases as well as immunology and infectious diseases amongst others. This is a fundamental resource for biomedical students and researchers as well as medical practitioners who need to adopt advances in computational tools and methods into the clinical practice. Encyclopedic coverage: 'one-stop' resource for access to information written by world-leading scholars in the field of Systems Biology and Systems Medicine, with easy cross-referencing of related articles to promote understanding and further research Authoritative: the whole work is authored and edited by recognized experts in the field, with a range of different expertise, ensuring a high quality standard Digitally innovative: Hyperlinked references and further readings, cross-references and diagrams/images will allow readers to easily navigate a wealth of information

nature communications impact factor: Rna-based Mechanisms In Cancer Gary Brewer,

Gerald M Wilson, 2023-10-12 The roles of gene transcription in cancer have long been appreciated. However, posttranscriptional processes also contribute significantly to alterations in gene expression that lead to tumor initiation, formation, and progression. We have known for decades that

alterations in the expression of key genes, such as those involved in cell proliferation, signaling, apoptosis, and immune responses, are major molecular events in cancer. This book presents our current understanding of selected posttranscriptional control mechanisms and the RNAs that they regulate. Each chapter provides an overview of a specific RNA-directed regulatory system and the RNA/protein factors involved, then discusses major findings in the field and their relationships to the development and/or treatment of cancer and associated diseases. Future questions serve to address 'where do we go from here' and stimulate the reader's thinking about these important problems. This compendium of chapters from experts in the field is essential reading for anyone interested in the myriad ways that RNAs contribute to tumorigenesis: from graduate students, researchers, and clinical scientists interested in mRNA processing and translation, RNA-binding proteins that promote turnover/stability of specific mRNAs, how small noncoding RNAs control inflammation and signaling, roles of the epitranscriptome, and future and emerging RNA-based, anti-tumor therapeutics.

nature communications impact factor: High-Speed Atomic Force Microscopy in Biology
Toshio Ando, 2022-03-23 This first book on high-speed atomic force microscopy (HS-AFM) is intended for students and biologists who want to use HS-AFM in their research. It provides straightforward explanations of the principle and techniques of AFM and HS-AFM. Numerous examples of HS-AFM studies on proteins demonstrate how to apply this new form of microscopy to specific biological problems. Several precautions for successful imaging and the preparation of cantilever tips and substrate surfaces will greatly benefit first-time users of HS-AFM. In turn, the instrumentation techniques detailed in Chapter 4 can be skipped, but will be useful for engineers and scientists who want to develop the next generation of high-speed scanning probe microscopes for biology. The book is intended to facilitate the first-time use of this new technique, and to inspire students and researchers to tackle their own specific biological problems by directly observing dynamic events occurring in the nanoscopic world. Microscopy in biology has recently entered a new era with the advent of high-speed atomic force microscopy (HS-AFM). Unlike optical microscopy, electron microscopy, and conventional slow AFM, it allows us to directly observe biological molecules in physiological environments. Molecular “movies” created using HS-AFM can directly reveal how molecules behave and operate, without the need for subsequent complex analyses and roundabout interpretations. It also allows us to directly monitor morphological change in live cells, and dynamic molecular events occurring on the surfaces of living bacteria and intracellular organelles. As HS-AFM instruments were recently commercialized, in the near future HS-AFM is expected to become a common tool in biology, and will enhance and accelerate our understanding of biological phenomena.

nature communications impact factor: Nucleic Acids-Based Cancer Theranostics Fu Wang, Guo Chen, Dongkyoo Park, Patrick Baril, Manfred Ogris, 2022-03-07

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