

science advances impact factor 2023

Science Advances Impact Factor 2023: What It Means for Researchers and the Scientific Community

science advances impact factor 2023 has become a hot topic among researchers, academicians, and publishers alike. As one of the most influential journals in the scientific community, Science Advances continues to shape the landscape of interdisciplinary research. Understanding its impact factor and what it signifies in 2023 can provide valuable insights into the journal's standing, the quality of published work, and trends in scientific publishing more broadly.

Understanding the Science Advances Impact Factor 2023

The impact factor is often used as a metric to gauge the importance and influence of academic journals. In 2023, the Science Advances impact factor reflects not just the journal's prestige but also the evolving nature of scientific communication. Unlike traditional impact factors focused solely on citation counts, this metric also hints at the journal's reach across multiple disciplines and the quality of peer-reviewed articles it publishes.

Science Advances, published by the American Association for the Advancement of Science (AAAS), has carved out a unique position by embracing open access and multidisciplinary research. This approach has contributed to its steady rise in impact factor over the years, making it a go-to source for cutting-edge scientific developments.

What Does the Impact Factor Represent?

The impact factor represents the average number of citations received in a particular year by articles published in the journal during the two preceding years. For Science Advances in 2023, this means the citations in 2023 of articles published in 2021 and 2022. A higher impact factor generally indicates that the journal's articles are frequently cited, suggesting relevance and influence in the scientific community.

However, it's important to remember that impact factor, while useful, is not the sole indicator of quality. Factors such as the journal's editorial standards, peer review process, and the diversity of research topics also play significant roles in determining its reputation.

Factors Contributing to Science Advances Impact Factor 2023

Several key elements have influenced the impact factor of Science Advances in 2023. Understanding these factors can help researchers appreciate why the journal's standing is growing and what to expect in the future.

Open Access Model and Increased Visibility

One major driver behind Science Advances' rising impact factor is its commitment to open access publishing. By making articles freely available to anyone with internet access, the journal significantly increases the visibility and accessibility of its research. This wider reach often translates into more citations as researchers from around the world can easily find and reference relevant studies.

Open access also aligns with the growing demand for transparency and democratization of scientific knowledge. As funding agencies and institutions promote open science, journals like Science Advances benefit from increased submissions and readership, bolstering their citation metrics.

Interdisciplinary Research Approach

Science Advances publishes research spanning a broad range of scientific disciplines, from biology and chemistry to engineering and environmental sciences. This interdisciplinary focus attracts a diverse readership and encourages cross-pollination of ideas, which often leads to higher citation rates.

By breaking down traditional silos between fields, Science Advances helps foster innovation and collaboration. Papers that appeal to multiple disciplines tend to have a broader impact, which is reflected in the journal's impact factor.

High-Quality Peer Review and Editorial Standards

Maintaining rigorous peer review and editorial standards is crucial for any scientific journal aiming to sustain or improve its impact factor. Science Advances ensures that submitted manuscripts undergo thorough evaluation by experts, which helps filter out weaker studies and highlight groundbreaking research.

The journal's reputation for quality attracts top-tier researchers who seek to publish their best work, further enhancing the likelihood of citations and

academic influence.

Implications of Science Advances Impact Factor 2023 for Researchers

For scientists and academics, understanding the significance of the Science Advances impact factor can inform decisions about where to submit manuscripts and how to interpret journal rankings.

Choosing the Right Publication Venue

When deciding where to publish, researchers often consider the impact factor as a proxy for visibility and prestige. A higher impact factor like that of Science Advances in 2023 suggests that articles published in the journal are more likely to be read and cited by peers.

This can be particularly important for early-career researchers seeking to establish their reputation, as well as for senior scientists aiming to maximize the dissemination of their findings.

Evaluating Research Quality and Trends

The impact factor also provides insights into emerging research trends. A journal with a rising impact factor often reflects growing interest in certain scientific topics or methodologies. By paying attention to Science Advances impact factor 2023, researchers can identify hot areas of study and align their work to maximize relevance.

Moreover, institutions and funding bodies sometimes rely on journal impact factors as part of their evaluation criteria. Publishing in a high-impact journal can enhance grant proposals and career advancement opportunities.

Broader Trends Reflected by Science Advances Impact Factor 2023

Beyond individual researchers, the impact factor of Science Advances sheds light on broader shifts within the scientific publishing ecosystem.

The Shift Toward Open Science

As noted, the rise of open access journals like Science Advances signals a broader movement toward open science. This trend emphasizes transparency, accessibility, and the democratization of knowledge. The impact factor increase in 2023 underscores that open access is not just a philosophical stance but also a practical advantage in terms of citation and influence.

Interdisciplinary Collaboration Gains Momentum

Science Advances' multidisciplinary approach mirrors a growing recognition that complex scientific problems require collaboration across fields. The journal's impact factor growth highlights the value of fostering communication between traditionally separate disciplines.

This trend is likely to continue, with more journals adopting interdisciplinary scopes and encouraging cross-field research.

Changing Metrics and the Future of Impact Factors

While the traditional impact factor remains significant, there is an ongoing debate about its limitations and the need for alternative metrics. Measures such as article-level metrics, altmetrics, and citation diversity are gaining traction.

Science Advances impact factor 2023 still holds weight, but the scientific community is increasingly looking beyond it to capture a fuller picture of research influence.

Tips for Researchers Aiming to Publish in Science Advances

Navigating the competitive landscape of high-impact journals requires strategic planning. Here are some tips for those interested in publishing in Science Advances:

- **Focus on Novelty and Interdisciplinary Appeal:** Aim to present innovative research that can attract readers from multiple scientific domains.
- **Prioritize Clarity and Accessibility:** Clear writing and well-structured manuscripts improve the chances of acceptance and wider dissemination.
- **Engage with Open Science Practices:** Consider preprints, data sharing,

and transparent methodologies to align with the journal's values.

- **Build a Strong Citation Network:** Cite relevant literature thoughtfully and engage with the community to increase the visibility of your work.
- **Prepare for Rigorous Peer Review:** Be ready to address feedback thoroughly and revise your manuscript to meet high editorial standards.

Science Advances impact factor 2023 reflects a vibrant, evolving journal at the crossroads of scientific innovation and accessibility. Researchers who understand the dynamics behind this metric can better position their work for success and contribute meaningfully to the advancement of science.

Frequently Asked Questions

What is the impact factor of Science Advances in 2023?

The impact factor of Science Advances in 2023 is approximately 14.1, reflecting its strong influence in the multidisciplinary scientific community.

How has the impact factor of Science Advances changed from 2022 to 2023?

Science Advances saw an increase in its impact factor from around 13.1 in 2022 to about 14.1 in 2023, indicating growing recognition and citation of its published research.

What factors contribute to the high impact factor of Science Advances in 2023?

The high impact factor is driven by its open-access model, rigorous peer review, multidisciplinary coverage, and publication of high-quality, innovative research articles.

How does Science Advances' 2023 impact factor compare to other multidisciplinary journals?

With an impact factor of about 14.1 in 2023, Science Advances ranks competitively among top multidisciplinary journals, often surpassing many in terms of citation metrics.

Why is the 2023 impact factor important for authors considering Science Advances?

A high 2023 impact factor indicates strong journal influence and visibility, which can enhance the reach and citation potential of authors' work published in Science Advances.

Is the 2023 impact factor of Science Advances reflective of its article quality?

Yes, the impact factor is one metric reflecting citation frequency and is generally correlated with the quality and significance of articles published in Science Advances.

How frequently is the impact factor of Science Advances updated?

The impact factor is updated annually, typically released each year by Clarivate in the Journal Citation Reports, reflecting citations from the previous two years.

Can the impact factor of Science Advances in 2023 influence funding decisions?

Yes, a higher impact factor like that of Science Advances in 2023 can positively influence funding agencies' perceptions of the journal's prestige and the potential impact of published research.

What type of research articles contribute most to Science Advances' 2023 impact factor?

Highly cited interdisciplinary studies, breakthrough findings, and comprehensive review articles tend to contribute most significantly to the 2023 impact factor of Science Advances.

Where can I find the official 2023 impact factor for Science Advances?

The official 2023 impact factor for Science Advances can be found in the Journal Citation Reports published by Clarivate and on the journal's official website.

Additional Resources

Science Advances Impact Factor 2023: A Comprehensive Review of Its Significance and Trends

science advances impact factor 2023 has become a focal point for researchers, institutions, and publishers alike, reflecting the journal's growing prominence in the scientific community. As one of the leading open-access multidisciplinary journals published by the American Association for the Advancement of Science (AAAS), Science Advances has steadily gained recognition since its inception. The 2023 impact factor offers a quantitative lens through which the journal's influence, reach, and scholarly contribution can be evaluated, providing insights into the broader landscape of scientific publishing.

Understanding the Science Advances Impact Factor 2023

The impact factor remains one of the most widely used metrics to assess the citation frequency of scientific journals, thus indicating their relative importance within a field. For 2023, Science Advances reported an impact factor that underscores its role as a premier platform for high-quality, interdisciplinary research. This metric is calculated based on the number of citations received in a given year for articles published in the preceding two years, divided by the total number of citable articles during that period.

Science Advances' impact factor in 2023 reflects several critical dynamics: the journal's editorial policies, the breadth of disciplines it covers, and the shifting patterns in scientific communication. The journal's open-access model, which facilitates unrestricted access to published content, also plays a crucial role in enhancing visibility and citation potential.

Comparative Analysis with Peer Journals

When compared to other multidisciplinary journals such as Nature Communications, PLOS ONE, and Scientific Reports, Science Advances holds a competitive impact factor that highlights its increasing stature. While Nature Communications traditionally enjoys a higher impact factor, Science Advances' 2023 metric demonstrates robust growth, narrowing the gap and signaling its rising influence.

This growth can be attributed to several factors:

- **Rigorous Peer Review:** Maintaining stringent review standards ensures high-quality publications that attract citations.
- **Diverse Subject Coverage:** By encompassing fields from biology to engineering and social sciences, the journal appeals to a broad research audience.

- **Open Access Model:** Enhances accessibility and dissemination, fostering greater academic engagement.

Such elements collectively contribute to the journal's citation performance, which is critical for the impact factor calculation.

Factors Driving the Impact Factor in 2023

Several underlying trends and strategic decisions have influenced the Science Advances impact factor in 2023:

Open Access and Citation Dynamics

Open access publishing has revolutionized scholarly communication by removing paywalls that traditionally restricted readership. Science Advances, as a fully open-access journal, benefits from this model. Studies show that open-access articles tend to receive more citations due to their broader accessibility. This increased visibility can translate into higher impact factors, as seen in Science Advances' 2023 metrics.

Moreover, open access aligns with the global push for democratizing scientific knowledge, attracting submissions from a worldwide author base, which enhances the journal's diversity and citation footprint.

Interdisciplinary Research Appeal

Science Advances actively promotes interdisciplinary research, which is increasingly valued for addressing complex scientific and societal challenges. Articles that bridge multiple disciplines tend to attract citations from a wider pool of researchers, boosting the journal's overall citation count.

For example, studies combining computational methods with life sciences or environmental research with policy analysis often find a receptive audience in Science Advances, thus contributing to the citation volume reflected in the impact factor.

Publication Volume and Editorial Policies

The number of articles published by Science Advances also affects its impact factor. While a higher volume can increase total citations, it may dilute the

average citations per article if not carefully managed. The editorial board's efforts to balance quantity and quality are pivotal in sustaining a healthy impact factor.

In 2023, Science Advances maintained a strategic approach by curating impactful, novel research while avoiding indiscriminate expansion of publication numbers. This balance ensures that the impact factor remains a valid indicator of the journal's influence.

Implications of the Science Advances Impact Factor 2023 for Researchers and Institutions

For Authors

The impact factor serves as a critical parameter for researchers deciding where to publish. A competitive impact factor like that of Science Advances in 2023 signals to authors that the journal offers visibility and recognition. Publishing in such a journal can enhance an author's academic profile and improve the dissemination of their work.

Additionally, the journal's open access nature ensures that research reaches a global audience without barriers, an attractive feature for authors aiming for maximum impact.

For Academic Institutions and Funding Bodies

Institutions often rely on impact factor metrics to evaluate research productivity and quality. A rising Science Advances impact factor in 2023 may influence institutional decisions regarding journal subscriptions, research collaborations, and faculty evaluations.

Funding agencies also consider the impact factor as one measure of research significance. Publications in high-impact journals like Science Advances can strengthen grant applications and justify investment in particular research areas.

Potential Limitations of Relying Solely on Impact Factor

While the impact factor provides useful insights, it is important to acknowledge its limitations. The metric does not account for the quality or long-term influence of individual articles and may be skewed by a few highly

cited papers. It also favors fields with faster citation cycles, potentially disadvantaging disciplines such as mathematics or humanities.

Therefore, stakeholders are encouraged to use the Science Advances impact factor 2023 as one of multiple indicators when assessing journal performance and research impact.

Emerging Trends in Scientific Publishing Reflected by Science Advances Impact Factor 2023

The evolution of the Science Advances impact factor mirrors broader transformations in the academic publishing ecosystem:

- **Shift Toward Open Science:** The journal's open-access policy exemplifies the move toward greater transparency and accessibility.
- **Emphasis on Data Sharing and Reproducibility:** Science Advances increasingly promotes data availability, which enhances research credibility and citation potential.
- **Technological Integration:** Usage of AI tools for manuscript screening and enhanced peer review processes contribute to maintaining high publication standards.

These trends not only influence the journal's impact factor but also shape the future of scholarly communication.

Looking Ahead: Prospects for Science Advances

Given the trajectory of the Science Advances impact factor, the journal is poised to consolidate its position as a leading platform for innovative and impactful research. Continued emphasis on multidisciplinary work, open access, and editorial rigor will be essential in sustaining and potentially increasing its citation influence.

Moreover, as scientific communities increasingly value diverse metrics such as altmetrics and article-level citations, Science Advances is likely to adopt a multifaceted approach to measuring its impact, complementing traditional impact factor assessments.

The 2023 impact factor thus represents not only a snapshot of current standing but also a catalyst for ongoing development in scientific publishing

practices.

Science Advances Impact Factor 2023

science advances impact factor 2023: Science with Impact Anne Helen Toomey, 2024-12-03 Will you please just listen to me? If you are a scientist, or a fan of science, have you ever wondered why your fact-based explanation of ground-breaking scientific research falls flat with family, friends, and the general public? Social science communicator Anne Helen Toomey argues that science today faces a public-relations crisis, and she calls for a whole-scale change in how scientists engage with the world. This practical, how-to guide will help scientists address public distrust, communicate about uncertainty, and engage with policymakers so that science can make a difference. Science with Impact argues that science can--and should--make a meaningful difference in society, and offers hope and guidance to those of us who wish to take the steps to make it so.

science advances impact factor 2023: *A Relational Approach to Governing Wicked Problems* Peeter Selg, Georg Sootla, Benjamin Klasche, 2023-12-13 The book initiates a relational turn in policy making and governance by developing further relational political analysis and by taking relational thinking to bear on not just analytic/descriptive issues, but also to normative/prescriptive issues. The need for such a turn, this book argues, comes from the ever-increasing relevance of addressing the so-called wicked problems of governance like climate change, COVID-19 kinds of pandemics, global economic recessions and refugee crises. The book argues for a need to rethink governance as a process from the relational point of view to spur its potential for addressing these problems. What needs to be rethought is not so much the specific tools or resources of governance, but the very issue of whether governance should be seen in terms of tools and resources in the first place. This book contributes to this discussion by consolidating the relational approaches to governance thus far and by taking them to a next - normative/prescriptive- level.

science advances impact factor 2023: Pesticide Removal Methods from Wastewater Pranav Deepak Pathak, Anuja Rajendra Jadhav, Sunil Kautikrao Deokar, Sonali Patil, 2025-10-21 As agricultural methods become more intensive and as industrial operations expand, the number of pesticides entering bodies of water increases, demanding effective removal strategies and forward-thinking approaches. This new volume addresses this important challenge by investigating sophisticated removal technologies and developing pesticide management trends. Chapters cover common pesticides detected in wastewater from agricultural and nonagricultural sources, readily available nanoparticles and nanomaterials that successfully remove hazardous compounds from wastewater, the use of new electrochemical technologies and perovskite oxide semiconductors to remove pesticides, the varieties of biopesticides and their advantages over synthetic pesticides, the construction of water treatment facilities, applications of entomopathogenic organisms in viticulture, and more.

science advances impact factor 2023: *A Meteorite Killed My Cow* Richard Greenwood, 2024-05-08 Meteorites are generally considered to be bizarre and exotic space junk that you only ever come across in museums. But the reality is very different. Meteorites are generally harmless, with the exception of a cow in Venezuela and a few dinosaurs. Well, quite a few dinosaurs in fact! They are arriving on Earth every day, everywhere, in the form of fine dust. The result is that meteorites can be collected from the rooftops of houses everywhere. It's not easy and you need to know what to look for. This book will help. Meteorites are the oldest rocks in our Solar System and contain grains that are even older. These space rocks provide science with the best available evidence concerning the origin and early evolution of the Solar System. This book introduces the reader to the fascinating and sometimes bizarre world of space rocks using a simple, clear layman-friendly style. It explains why they are so special and describes their main characteristics.

The non-technical approach used throughout the book make it particularly accessible to the general public and it will be of interest to anyone looking to learn more about these cosmic visitors and the wealth of scientific information they contain. Features: Provides a concise introduction to the world of meteorites in an accessible and non-technical way Demonstrates how meteorites can be found locally and provides practical guidance on how to search for them! Emphasizes the human side of meteorites and how ordinary people can and do encounter meteorites in a wide variety of settings

science advances impact factor 2023: The Circular Bioeconomy Małgorzata Pink, Agnieszka Józefowska, 2025-01-13 Founded on distinct principles to the fossil fuel-based, linear economy, the sustainable, circular bioeconomy requires different social values and institutions and a better understanding of the complexity of the production process. A circular bioeconomy provides a framework for using renewable natural capital to manage land, biodiversity, food, and other industries, with the aim of improving social well-being and environmental safety. The contributors to this book analyse the evolution of the economic system towards the circular economy and bioeconomy and its place in the paradigm of sustainable development. They look at institutions and their importance for the bioeconomy and examine the question of the behaviour of market entities – enterprises and consumers – as well as the meaning of social and environmental responsibility for these entities. They also discuss the issues of the product itself: the process of creation, production, processing and the quality of the product, including its environmental impact throughout its life cycle. The authors also refer to the potential pitfalls and threats related to the implementation of the bioeconomy in both socio-economic and environmental contexts. Individual processes and phenomena are illustrated with case studies and the authors' own research. The book deliberately fosters an interdisciplinary approach founded on cooperation between economists, management specialists, agronomists, biotechnologists, chemists and soil scientists, who together underline the complexity and importance of the interdependence of the economy, society and the natural environment. The Open Access version of this book, available at <http://www.taylorfrancis.com>, has been made available under a Creative Commons [Attribution-Non Commercial-No Derivatives (CC-BY-NC-ND)] 4.0 license.

science advances impact factor 2023: Proceedings of the 2025 10th International Conference on Social Sciences and Economic Development (ICSSSED 2025) Huaping Sun, Hang Luo, Vilas Gaikar, Natālija Cudečka-Puriņa, 2025-05-26 This is an open access book. With the successful experience of the past 9 years, we believe that the 2025 10th International Conference on Social Sciences and Economic Development (ICSSSED 2025) will be an even greater success in 2025, and welcome all scholars and experts to submit their papers for the conference! 2025 10th International Conference on Social Sciences and Economic Development (ICSSSED 2025) will be held on February 28 - March 2, 2025 in Shanghai, China. ICSSSED 2025 is to bring together innovative academics and industrial experts in the field of Social Sciences and Economic Development research to a common forum. The primary goal of the conference is to promote research and developmental activities in Social Sciences and Economic Development research and another goal is to promote scientific information interchange between researchers, developers, engineers, students, and practitioners working all around the world. The conference will be held every year to make it an ideal platform for people to share views and experiences in humanities and social science research and related areas.

science advances impact factor 2023: Artificial Intelligence in the Age of Nanotechnology Jaber, Wassim, 2023-12-07 In the world of academia, scholars and researchers are confronted with a rapidly expanding knowledge base in Artificial Intelligence (AI) and nanotechnology. The integration of these two groundbreaking fields presents an intricate web of concepts, innovations, and interdisciplinary applications that can overwhelm even the most astute academic minds. Staying up to date with the latest developments and effectively navigating this complex terrain has become a pressing challenge for those striving to contribute meaningfully to these fields. Artificial Intelligence in the Age of Nanotechnology is a transformative solution meticulously crafted to address the academic community's knowledge gaps and challenges. This comprehensive book serves as the guiding light for scholars, researchers, and students grappling

with the dynamic synergy between AI and Nanotechnology. It offers a structured and authoritative exploration of the core principles and transformative applications of these domains across diverse fields. By providing clarity and depth, it empowers academics to stay at the forefront of innovation and make informed contributions.

science advances impact factor 2023: *Mystical Mushrooms* Aurora Kane, 2023-09-12

Mystical Mushrooms defines the beauty of mushrooms by focusing on their magical connections and symbolic meanings through folkloric tales and superstitions throughout the world. Go for a walk in the woods on any given summer day and you may find yourself surrounded in fungi galore as they lay nestled among the ferns and trees. After a rainstorm, peek out in your backyard and you may see tiny spores sprouting from the grass, forming what is known as a fairy ring. Mushrooms grow in all shapes, sizes, and colors and—depending on where you live—you might find some that are conducive to magic practice. *Mystical Mushrooms* enters this realm, exploring the magical properties, mythological connections, and symbolic qualities of the fungi that so intrigue us. Author Mandie Quark takes you on a journey through the mystical universe of mushrooms. From Buddhist traditions to the concept of fairy rings, Quark reveals how mushrooms have long been entwined with the supernatural in art, literature, and religion. This includes topics surrounding: Magical History Spells Symbolism Spirituality Coupled with stunningly depicted artwork, *Mystical Mushrooms* explores the qualities of over 75 species of mushroom, displaying a range of compelling subjects surrounding the true power of these fabulous fungi.

science advances impact factor 2023: *Energy Storage and Conversion Materials* Ngoc

Thanh Thuy Tran, Jeng-Shiung Jan, Wen-Dung Hsu, Ming-Fa Lin, Jow-Lay Huang, 2023-05-03 This book explores the fundamental properties of a wide range of energy storage and conversion materials, covering mainstream theoretical and experimental studies and their applications in green energy. It presents a thorough investigation of diverse physical, chemical, and material properties of rechargeable batteries, supercapacitors, solar cells, and fuel cells, covering the development of theoretical simulations, machine learning, high-resolution experimental measurements, and excellent device performance. Covers potential energy storage (rechargeable batteries and supercapacitors) and energy conversion (solar cells and fuel cells) materials Develops theoretical predictions and experimental observations under a unified quasi-particle framework Illustrates up-to-date calculation results and experimental measurements Describes successful synthesis, fabrication, and measurements, as well as potential applications and near-future challenges Promoting a deep understanding of basic science, application engineering, and commercial products, this work is appropriate for senior graduate students and researchers in materials, chemical, and energy engineering and related disciplines.

science advances impact factor 2023: *Urban Greening Techniques: An Introduction* Chun

Liang Tan, 2023-07-24 What is the best way to design with greenery? What are the benefits of selecting one species of tree over another, and placing it at Point A instead of Point B? Will it cost more than the benefits it provides? If you have ever asked these questions, this book is for you. Greenery is an integral part of the sustainable planning and design ethos. Besides beautifying the environment, it can also help alleviate adverse impacts of urbanisation such as the Urban Heat Island effect. This book provides an introduction to the various technologies and techniques that facilitate the urban greening process. Each chapter introduces the concept of urban greenery at different scales (city, precinct and plant), as well as relevant methods and considerations for implementation. Assessment frameworks are provided to maximise the benefits of greenery, whilst minimising disservices associated with poor planning, execution or maintenance of greenery or greenery systems. Simple exercises and online resources are provided to illustrate how concepts from this book can be applied in practice. This textbook is essential reading for anyone interested in urban greenery and how it can make a tangible positive impact on our built environment: from students in the architecture, landscape architecture and building construction disciplines, to urban planners, building owners, designers and facility managers who wish to make more informed choices when incorporating greenery into the urban environment during the planning, design, construction

and maintenance stages.

science advances impact factor 2023: Hormones and Reproduction of Vertebrates, Volume 1 David O. Norris, Kristin H. Lopez, 2024-07-17 Hormones and Reproduction of Vertebrates, Volume 1: Fishes is the first of five second-edition volumes representing a comprehensive and integrated overview of hormones and reproduction in fishes, amphibians, reptiles, birds, and mammals. The book includes coverage of endocrinology, neuroendocrinology, physiology, behavior, and anatomy of fish reproduction. It provides a broad treatment of the roles of pituitary, thyroid, adrenal, and gonadal hormones in all aspects of reproduction, as well as descriptions of major life history events. New to this edition is a concluding assessment of the effect of environmental influences on fishes. Initial chapters in this book broadly examine sex determination, reproductive neuroendocrinology, stress, and hormonal regulation as it relates to testicular and ovarian development and function. Subsequent chapters examine hormones and reproduction of specific taxa, including agnathan, chondrichthyan, and sarcopterygian fishes. The book concludes with an examination of the environmental influences on hormones and reproduction of fishes, including endocrine-disrupting chemicals and climate change. Hormones and Reproduction of Vertebrates, Volume 1: Fishes is designed to provide a readable, coordinated description of reproductive basics in fishes, as well as an introduction to the latest trends in reproductive research and a presentation of our understanding of reproductive events gained over the past decade. It may serve as a stand-alone reference for researchers and practitioners in the field of ichthyology or as one of five coordinated references aligned to provide topical treatment across vertebrate taxa for researchers, practitioners, and students focused on vertebrate endocrinology. - Covers endocrinology, neuroendocrinology, physiology, behavior, and anatomy of fish reproduction - Includes pituitary, pineal, thyroid, adrenal, and gonadal hormones - Focuses on teleosts as well as information on agnathan, chondrichthyan, and sarcopterygian fishes - Provides new coverage on endocrine-disrupting chemicals, microplastics, and climate change

science advances impact factor 2023: Nursing Leaders Driving Health Equity Sandra Davis, Andrea Lindell, 2024-06-26 Gaps in healthcare delivery and health outcomes are wide, persistent, and increasing in communities throughout the United States—especially among historically underrepresented and excluded groups. Addressing the systemic challenges of structural racism, political conflict, social unrest, and climate change requires interdisciplinary collaboration and consideration of the social and structural determinants of health (SSDH). Nursing Leaders Driving Health Equity: Tackling Social and Structural Determinants is the first comprehensive guide to integrate SSDH into nursing and interdisciplinary programs, curricula, and practice to combat the complex factors impacting health equity. Case studies and practical advice from experienced nursing educators, administrators, and practitioners provide a framework for the development, integration, discussion, and assessment of SSDH in teaching, learning, and practice environments. This empowering, easy-to-use guide helps you: * Design effective educational strategies integrating SSDH into existing curricula and prepare students to address the social challenges impacting their patients' health outcomes. * Develop holistic and sustainable infrastructures, policies, and workflows focusing on identification of patients who need referrals for intervention and evaluation for outcomes related to SSDH. * Apply research and evidence-based practice related to SSDH to help identify patients with unmet needs and refer them to community resources and support services. * Implement guidelines that support the integration of SSDH into healthcare practice.

science advances impact factor 2023: The Future of Amazonian Aquatic Biota Samara Silva de Souza, Susana Braz-Mota, Adalberto Luis Val, 2024-12-29 The aquatic habitats of the Amazon region are subject to natural daily and seasonal variations in the physico-chemical properties of the water. The organisms that inhabit these habitats have developed adaptations to cope with these natural events. However, human-induced environmental changes are threatening ecosystems and affecting biodiversity at all levels of biological organization by causing drastic changes in climatic conditions in a shorter period of time, without giving organisms time to adapt. In this sense, the book addresses the future of aquatic organisms in the Amazon, including bacterial symbionts,

insects, crustaceans, fish, plants, and amphibians, and provides an overview of what the future of biodiversity in the Amazon will look like, both in terms of organisms' adaptations to natural changes and in terms of vulnerability and responses to human impacts, highlighting possible mechanisms to minimize the expected impacts. The book also provides a brief overview of the risks that climate change poses to livestock, strategies for the sustainable use of species in the Amazon region and the impact of climate change on fish diseases.

science advances impact factor 2023: *Ecological Ambivalence, Complexity, and Change*

Simone M. Müller, Matthias Schmidt, Kirsten Twelbeck, 2024-12-23 This book provides a systematic, interdisciplinary analysis of the conflicts, issues, and tensions associated with today's ecological transformation processes from an Environmental Humanities perspective. It explores the notion of ecological ambivalence, where conflicting reactions, beliefs, or feelings toward public policies or private practices for saving planet Earth threaten to produce a stalemate. Under the umbrella of the Environmental Humanities, the book brings together scholars from fields such as environmental history, ecological economics, human geography, and ecocriticism. Contributions investigate the dissonances, or ambivalences, wound up with processes of environmental transformation both conceptually and empirically. Case studies range from wind farms in India to green mineral mines in Mexico, and from chemical contamination in Denmark to Rocky Mountain Arsenal in Denver, USA. Additionally, with a focus on creative environmental communication—as in Philippe Squarzoni's graphic novel *Climate Changed* or G'Ebinyo Ogbowei's poetry—contributions also present possible pathways for overcoming ambivalences, managing them creatively, or critiquing the concept as whole. The volume highlights how the humanities, the arts, and the social sciences can work together to help humankind develop and cultivate the skills to overcome paralysis and engage in practical action, and in doing so, puts forth ambivalence as an approach for being in today's world. This book will be of interest to researchers, academics, and students from the Environmental Humanities, the social sciences, the humanities, and the environmental sciences. It will also be useful for decisionmakers, think tanks, NGOs, and activists.

science advances impact factor 2023: *Educational Media and Technology Yearbook*

Hyewon Lee, Jill Stefaniak, Robert Maribe Branch, 2025-09-28 This is Volume 45 of the Educational Media and Technology Yearbook. For the past 40 years, the Yearbook has contributed to the field of Educational Technology in presenting contemporary topics, ideas, and developments regarding diverse technology tools for educational purposes. The Yearbook editors have dedicated themselves to providing a record of contemporary trends related to educational communications and technology. Part One of this updated volume, "Trends and Issues in Learning, Design and Technology," presents an array of chapters that develop some of the current themes listed above, in addition to others. In Part Two, "Leadership Profiles," the authors provide biographical sketches of the careers of instructional technology leaders. Part Three, "Graduate Programs in Learning, Design, and Technology," and Part Four, "Organizations and Associations in North America," are, respectively, directories of instructional technology-related organizations and institutions of higher learning offering degrees in related fields. Finally, Part Five, the "Mediagraphy," presents an annotated listing of selected current publications related to the field. The Yearbook is of particular interest to media and technology professionals in K-12 school, higher education, and business contexts.

science advances impact factor 2023: *Kaplan's Cardiac Anesthesia - E-Book*

Joel A. Kaplan, 2023-06-09 Current, comprehensive, and evidence-based, Kaplan's Cardiac Anesthesia: Perioperative and Critical Care Management, 8th Edition, offers practical guidance from today's international leaders in cardiac anesthesiology, helping you to optimize perioperative outcomes, avoid complications, and ensure maximum patient safety. Dr. Joel A. Kaplan, along with an expert team of associate editors, guides you through today's clinical challenges, including expanded coverage of critical care, the newest approaches to perioperative assessment and management, state-of-the art diagnostic techniques, and cardiovascular and coronary physiology. - Covers the full spectrum of contemporary cardiothoracic anesthesia practice, including preoperative assessment,

physiology, pharmacology, monitoring, transesophageal echocardiography, coagulation, specific cardiac procedures, extracorporeal circulation, postoperative pain treatment, and management of the complex patient with cardiac disease. - Includes expanded coverage of critical care topics, reflecting the increased perioperative care now provided by anesthesiologists in the ICU. - Contains new chapters on Structural Heart Disease Procedures; Cardiorespiratory Effects of COVID-19; Critical Care Ultrasound; Intensive Unit Management of Patients on Mechanical Circulatory Support; and Postoperative Care of the Heart and Lung Transplant Patient. - Features more than 900 full-color illustrations, decision trees, charts, and graphs (over one-third are new) that aid in visual understanding of complex topics. - Provides access to over 120 videos, including a range of echocardiography clips. - Contains balanced, dependable, and updated content on all aspects of the anesthetic management of cardiac surgical procedures, as well as cardiology procedures performed in catheterization and electrophysiologic laboratories. - Places new emphasis on cardiac devices requiring perioperative care, including cardiac implanted electrical devices and ventricular assist devices. - An eBook version is included with purchase. The eBook allows you to access all of the text, figures and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud.

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adversity, parental psychiatric disorders and physical treatment Available treatments including parenting programs, cognitive behavioural therapy, family interventions and relationship-based treatments Contexts of clinical encounters, including refugee and asylum-seeking children, children affected by HIV/AIDS and children with specific sensory impairments The Seventh Edition of Rutter's Child and Adolescent Psychiatry is an essential resource for all professionals working and learning in the fields of child and adolescent mental health and developmental psychopathology along with clinicians working in primary care and paediatric settings.

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