

science advance impact factor 2022

Science Advance Impact Factor 2022: Understanding Its Significance and Influence

science advance impact factor 2022 has become a pivotal term among researchers, academics, and institutions striving to gauge the prestige and relevance of scientific journals. As the scientific community continues to expand and diversify, understanding the nuances behind impact factors, especially for leading journals like Science Advances, is essential. This article will delve into what the Science Advance impact factor 2022 entails, why it matters, and how it influences scientific publishing and research evaluation.

What Is the Science Advance Impact Factor 2022?

The impact factor is a metric that reflects the average number of citations to recent articles published in a specific journal. The Science Advance impact factor 2022 refers to the calculated value for the journal Science Advances based on citations received in 2022 for articles published in the previous two years (2020 and 2021). Impact factors are commonly used to assess the relative importance of journals within their field.

Science Advances, being a multidisciplinary open-access journal published by the American Association for the Advancement of Science (AAAS), has witnessed a steady rise in its impact factor over recent years. This uptick showcases the journal's growing influence and the high-quality research it attracts.

How Is the Impact Factor Calculated?

To understand the significance of the Science Advance impact factor 2022, it's important to grasp the calculation method:

- **Numerator:** The total number of citations in 2022 to articles published in Science Advances during 2020 and 2021.
- **Denominator:** The total number of "citable items" published in Science Advances in 2020 and 2021. These typically include research articles and reviews.

The formula is:

Impact Factor 2022 = Citations in 2022 to 2020-2021 articles / Number of citable items published in 2020-2021

This straightforward formula offers a snapshot of how frequently recent articles in the journal are cited, serving as a proxy for influence.

Why the Science Advance Impact Factor 2022 Matters

Understanding the impact factor helps researchers decide where to publish, aids institutions in evaluating research outputs, and guides libraries on journal subscriptions. Here's why the 2022 impact factor for Science Advances is particularly significant:

Indicator of Research Quality and Reach

The higher the impact factor, the more influential the journal is perceived. Science Advances' rising impact factor signals that its publications are widely recognized and referenced across scientific disciplines. This visibility encourages researchers to submit high-quality studies, creating a positive feedback loop of excellence.

Influence on Academic Careers

Many academic institutions and funding bodies consider journal impact factors when assessing faculty performance, grant applications, and promotions. Publishing in a journal with a notable impact factor like Science Advances can enhance a researcher's reputation and open doors to further opportunities.

Guiding Readers and Researchers

For researchers scanning through the vast landscape of scientific literature, impact factors serve as a helpful guide to identify journals with influential and reliable content. The Science Advance impact factor 2022 thus assists readers in finding cutting-edge and impactful studies.

Trends and Changes Reflected in the 2022 Impact Factor

The scientific publishing landscape is evolving rapidly. The Science Advance impact factor 2022 reflects not only the journal's internal dynamics but also broader trends:

Growth of Open Access Publishing

Science Advances is an open-access journal, meaning its articles are freely available to the public. The increased accessibility often results in higher citation rates. The 2022 impact factor reflects how open access can boost visibility and engagement across global

audiences.

Interdisciplinary Research Appeal

Science Advances covers a broad spectrum of scientific fields, from biology and chemistry to physics and environmental science. The multidisciplinary nature attracts diverse readership and citations across different domains, positively influencing the impact factor.

Rapid Publication and High-Quality Peer Review

Timely publication and rigorous peer review contribute to the journal's credibility. Authors and readers alike value rapid dissemination of important findings, which helps maintain and increase citation rates.

How Researchers Can Use the Science Advance Impact Factor 2022

While impact factors should not be the sole criterion for choosing publication venues, they are a useful tool when combined with other considerations. Here are some tips for researchers:

Balance Impact Factor with Journal Scope

Publishing in a journal with a high impact factor like Science Advances is beneficial, but ensure the journal's scope aligns with your research. A mismatch can lead to rejection or reduced readership.

Consider Open Access Benefits

The open-access model embraced by Science Advances means your work is more accessible, potentially increasing citations. Researchers aiming for broad dissemination might find this advantageous.

Evaluate Citation Patterns

Look beyond the impact factor to understand citation trends in your field. Some disciplines naturally have lower citation rates, so comparing journals within the same field provides better insight.

Leverage Impact Factor for Funding and Collaborations

A publication in a journal with a strong impact factor can bolster grant proposals and collaborative ventures by showcasing the quality and reach of your research.

Limitations and Criticisms of Impact Factor Metrics

It's important to recognize that the Science Advance impact factor 2022, like all impact factors, has limitations:

- **Short Time Frame:** The two-year citation window may not capture the long-term impact of research.
- **Discipline Bias:** Citation behaviors vary widely among fields, making cross-discipline comparisons misleading.
- **Focus on Quantity Over Quality:** High citation counts do not always equate to research quality or significance.
- **Potential for Manipulation:** Some journals may engage in practices to artificially inflate their impact factors.

Understanding these caveats helps researchers and institutions interpret the Science Advance impact factor 2022 with a critical eye.

The Future of Impact Factors and Scientific Publishing

The landscape of scholarly communication is shifting, with growing calls for alternative metrics and more transparent evaluation methods. While the Science Advance impact factor 2022 showcases the journal's current academic influence, future developments may redefine how research impact is measured.

Emergence of Altmetrics

Alternative metrics, or altmetrics, track online attention and engagement, including social media mentions, downloads, and policy citations. These complementary measures capture broader societal impact that traditional impact factors may miss.

Open Peer Review and Transparency

Some journals, including those in the Science Advances family, are experimenting with open peer review to foster transparency and trust. This evolution may eventually influence how research impact is evaluated.

Increased Emphasis on Research Data and Reproducibility

As reproducibility becomes a critical concern, journals that promote data sharing and methodological rigor may see shifts in their perceived impact and citation patterns.

By keeping a pulse on these trends, researchers and institutions can better navigate the implications of the Science Advance impact factor 2022 and beyond.

Navigating the world of scientific publishing demands an understanding of metrics like the Science Advance impact factor 2022, but it also calls for a nuanced approach that values quality, relevance, and accessibility. As the scientific community continues to grow and evolve, so too will the ways we measure and appreciate research impact.

Frequently Asked Questions

What is the impact factor of Science Advances for the year 2022?

The impact factor of Science Advances for 2022 is approximately 14.1, reflecting its strong influence in the scientific community.

How has the impact factor of Science Advances changed in 2022 compared to previous years?

In 2022, Science Advances saw a slight increase in its impact factor compared to 2021, indicating growing recognition of its published research.

Why is the impact factor important for Science Advances?

The impact factor is important for Science Advances as it measures the average number of citations to recent articles, reflecting the journal's prestige and influence.

How does Science Advances' 2022 impact factor compare to other multidisciplinary journals?

Science Advances' 2022 impact factor of around 14.1 is competitive among multidisciplinary journals, placing it among the top-tier publications.

What factors contributed to Science Advances' impact factor in 2022?

High-quality, innovative research articles, rigorous peer review, and increased visibility contributed to Science Advances' impact factor in 2022.

Can the 2022 impact factor of Science Advances influence researchers' decision to publish there?

Yes, a high impact factor like that of Science Advances in 2022 attracts researchers seeking greater visibility and recognition for their work.

Is the impact factor the only metric to assess Science Advances' quality in 2022?

No, while the impact factor is significant, other metrics like h-index, citation distribution, and altmetrics also help assess the journal's quality.

Where can I find the official impact factor of Science Advances for 2022?

The official impact factor for Science Advances 2022 can be found on the Clarivate Journal Citation Reports website or the journal's official site.

Additional Resources

Science Advance Impact Factor 2022: A Critical Review of Its Significance and Implications

science advance impact factor 2022 has garnered considerable attention within the academic and research communities as a key metric reflecting the influence and reach of the journal Science Advances. As one of the leading open-access multidisciplinary journals, Science Advances has steadily climbed the ranks to establish itself as a reputable platform for cutting-edge scientific research. The impact factor for 2022 is a crucial indicator that not only reflects the journal's prestige but also shapes authors' decisions on where to publish and institutions' views on research quality.

Understanding the nuances behind the science advance impact factor 2022 provides valuable insight into how scientific contributions are evaluated and disseminated. This article delves into the specifics of the 2022 impact factor, compares it to previous years and peer journals, and explores its broader implications for researchers, institutions, and

the scientific community at large.

Decoding the Science Advance Impact Factor 2022

The impact factor serves as a quantitative measure of a journal's average citation frequency per published article over a designated period, typically two years. For Science Advances, the 2022 impact factor is calculated based on the citations received in 2022 to articles published in 2020 and 2021. This metric is managed and published annually by Clarivate's Journal Citation Reports (JCR), and it remains a widely recognized benchmark for journal quality and influence.

In 2022, Science Advances reported an impact factor of approximately 14.1, marking a significant milestone since its launch in 2015. This figure places the journal among the top-tier multidisciplinary publications, reinforcing its role as a premier outlet for high-impact research across various scientific domains. The consistent rise in the impact factor over recent years highlights the journal's growing reputation and the increasing citation rate of its articles.

Comparative Perspective: Science Advances vs. Peer Journals

To contextualize the significance of the science advance impact factor 2022, it is instructive to compare it with impact factors of related journals within the same publishing category:

- **Nature Communications:** Impact factor around 17.7 in 2022, slightly higher, reflecting its established position in multidisciplinary research.
- **PNAS (Proceedings of the National Academy of Sciences):** Impact factor near 12.8, showing Science Advances has surpassed it in recent years.
- **Scientific Reports:** Impact factor approximately 4.4, significantly lower, illustrating the varying citation dynamics in open-access journals.

This comparison reveals Science Advances as a competitive player, particularly given its relatively recent inception compared to long-standing journals like PNAS and Nature Communications. The journal's multidisciplinary scope and open-access model have likely contributed to its rapid citation growth and expanding readership.

Factors Influencing the Science Advance Impact Factor 2022

Several key factors have influenced the impact factor of Science Advances in 2022. Understanding these elements helps demystify the metric and underscores the complex interplay between journal policies, research trends, and citation behaviors.

Open-Access Model and Citation Advantage

One of the hallmarks of Science Advances is its fully open-access publishing policy. Articles are freely accessible to anyone worldwide, removing paywall barriers and enabling wider dissemination. Numerous studies indicate that open-access articles tend to receive more citations compared to paywalled content. This increased visibility likely contributed to the journal's elevated impact factor, as researchers from diverse fields can access and cite published work without restrictions.

Multidisciplinary Scope and Diverse Readership

Science Advances publishes research spanning biology, chemistry, physics, environmental science, health sciences, and engineering. This wide-ranging scope attracts a broader audience and fosters interdisciplinary citations. Articles addressing global challenges, such as climate change or pandemics, often garner significant attention, thus boosting citation counts and, by extension, the impact factor.

Editorial Standards and Peer Review Rigor

The journal's commitment to high editorial standards and rigorous peer review ensures the publication of robust, innovative, and relevant research. By prioritizing quality, Science Advances enhances the likelihood that its articles will be cited by other researchers, positively influencing impact factor metrics.

Implications of the Science Advance Impact Factor 2022

While the impact factor is a valuable indicator of journal influence, its implications extend further into academic publishing, researcher behavior, and institutional policies.

Influence on Author Submission Decisions

Researchers often consider impact factors when selecting publication venues, aiming to maximize the visibility and prestige of their work. The strong 2022 impact factor of Science Advances makes it an attractive option for authors seeking recognition in a high-impact, open-access platform. This dynamic can create a positive feedback loop, attracting high-quality submissions that further elevate the journal's status.

Effect on Research Assessment and Funding

Academic institutions and funding agencies sometimes use journal impact factors as proxies for research quality during evaluations. The prominence of Science Advances with its 2022 impact factor potentially enhances the perceived value of publications within its pages, influencing grant decisions, promotions, and tenure reviews. However, this reliance also invites criticism, as impact factors do not necessarily measure individual article or researcher merit.

Challenges and Criticisms of Impact Factor Reliance

Despite its widespread use, the impact factor has notable limitations. It can be disproportionately influenced by a few highly cited articles, may not equally represent all scientific disciplines, and is subject to manipulation through editorial policies. The science advance impact factor 2022, while impressive, must be interpreted cautiously within the broader context of research quality and impact.

Future Outlook for Science Advances and Its Impact Metrics

As Science Advances continues to evolve, the trajectory of its impact factor will be shaped by ongoing developments in scientific publishing and research dissemination.

Embracing Alternative Metrics

Beyond traditional impact factors, alternative metrics such as Altmetrics, citation distributions, and usage statistics are gaining prominence. These measures provide a more nuanced understanding of article influence, including social media attention and public engagement. Science Advances may increasingly highlight such metrics alongside its impact factor to offer a holistic picture of its research impact.

Maintaining Quality Amid Growth

Sustaining a high impact factor requires balancing growth in publication volume with maintaining rigorous editorial standards. Science Advances' challenge will be to continue attracting influential research without compromising quality, ensuring that its impact factor remains a meaningful reflection of scientific excellence.

Addressing Global Research Equity

Open-access platforms like Science Advances play a pivotal role in democratizing science. The journal's impact factor growth reflects broad international interest, but efforts to support submissions from underrepresented regions and disciplines could further enhance its global relevance and citation diversity.

The science advance impact factor 2022 stands as a testament to the journal's rising prominence in the scientific landscape. While it offers a snapshot of influence and reach, it also invites ongoing reflection on how best to measure and foster impactful scientific communication in an increasingly complex and interconnected research environment.

Science Advance Impact Factor 2022

science advance impact factor 2022: *Advances in Computing and Data Sciences* Mayank Singh, Vipin Tyagi, P.K. Gupta, Jan Flusser, Tuncer Ören, 2023-08-23 This book constitutes the refereed proceedings of the 7th International Conference on Advances in Computing and Data Sciences, ICACDS 2023, held in Kolkata, India, during April 27-28, 2023. The 47 full papers included in this book were carefully reviewed and selected from 22 submissions. The papers focus on advances of next generation computing technologies in the areas of advanced computing and data sciences.

science advance impact factor 2022: OECD Environmental Performance Reviews: United States 2023 OECD, 2023-06-22 The United States, the world's largest economy, has made progress in reducing several environmental pressures while maintaining one of the highest Gross Domestic Products per capita in the world. It has decoupled emissions of greenhouse gases, air pollutants, water abstractions and domestic material consumption from economic and population growth.

science advance impact factor 2022: Climate Change and Human Health Scenarios Rais Akhtar, 2024-01-01 The objective of the present edited book is to encompass studies from both developed and developing countries of Asia, Africa Europe, and Americas, to understand and present a comparative scenario of the climate change and other environmental determinants of health and disease in geographically diversified countries. Environment and health perspective dates back to Hippocrates treatise written 400 B.C.E. In his book *On Airs, Waters and Places*, Hippocrates described diseases as associated with environmental conditions, "Whoever wishes to investigate medicine properly, should proceed thus: in the first place to consider the seasons of the year, and what effects each of them produces for they are not at all alike, but differ much from themselves in regard to their changes. Then the winds, the hot and the cold, especially such as are common to all countries, and then such as are peculiar to each locality. We must also consider the qualities of the waters, for as they differ from one another in taste and weight, so also do they differ much in their

qualities. In the same manner, when one comes into a city to which he is a stranger, he ought to consider its situation, how it lies as to the winds and the rising of the sun; for its influence is not the same whether it lies to the north or the south, to the rising or to the setting sun". There has been a greater emphasis in the last four decades on understanding environmental factors which affect human health, after United Nations established Intergovernmental Panel on Climate Change (IPCC) in 1988 aimed at to evaluate research on changing environmental condition, particularly climate change and its impacts on human wellbeing, including human health, as consequences of extreme heat waves conditions, sea level rise, forced migration, air pollution, droughts, and wildfires. From these studies, risk levels of vulnerable populations and regions can be assessed and level of resilience of healthcare infrastructure that may be used in environmental health policy and equity of these countries.

science advance impact factor 2022: Emerging Contaminants in Water and Wastewater

Himanshu Gupta, Sughosh Madhav, Soniya Dhiman, Ritu Mishra, 2025-02-09 This present book serves as a comprehensive compilation of various emerging contaminants in the ecosystem, their contamination risk as well as the applicable remediation techniques. Exploding urbanization and industrialization often combined with improved standards of living have resulted in deleterious effects on the quality of the environment. Due to rapid growth of industrialization in the past few decades, large amounts of undesirable wastes are being discharged into the environment threatening the survival of living beings on the earth. In the recent years, the problems regarding pollution have become more global, and awareness about the environmental problems is increasing continuously. Environmental awakening has led many scientists to focus on the assessment of environmental impact of various emerging contaminants. The first victims of the environmental pollution are the terrestrial plants and aquatic bodies in the vicinity of urban areas that experience heavy pollution due to industrial effluents, toxic chemicals, hospital waste, radioactive waste, industrial fumes, vehicular traffic, etc. The increasing industrialization and use of hazardous chemicals are responsible for the lack of access to clean water in many parts of the world. In view of the widespread occurrence, persistence, and harmful effects of environmental pollutants on human population, the present book is proposed. Emerging contaminants due to ubiquitous distribution, persistence, and toxic effects have necessitated the development of efficient methods for remediation of contamination. Reports appearing from time to time reveal that the number and concentration of contaminants in the environment are continuously increasing. Thus, development as well as dissemination of new and eco-friendly methods for the removal of these pollutants has become a challenging task.

science advance impact factor 2022: Microplastics in Marine Ecosystem

Shobhika Parmar, Vijay Kumar Sharma, Vir Singh, 2023-05-11 This book addresses pertinent issues relating to microplastic pollution including its sources and sink of the microplastics and their environmental fate. It focuses on the impacts of microplastic pollution on marine life and human health. Available conventional methods and future solutions for the prevention and control of the marine microplastic pollution, such as bacterial and marine fungus biodegradation, membrane technology, and bioengineered microbes are included along with limitations and future challenges. Features: Provides detailed insight into the marine microplastics pollution, fate, health impacts, and removal technology Reviews ecological risks and environmental fate of microplastic pollution to the marine ecosystem Describes control and prevention methods of the microplastics pollution Covers global legislature for the mitigation of microplastic to the marine environment Discusses the role of community participation for the reduction of microplastic emissions This book is aimed at researchers and professionals in environmental engineering, science, and chemistry, marine pollution, marine and aquatic science.

science advance impact factor 2022: Fate of Microplastics in Wastewater Treatment Plants

Nitin Kumar Singh, Komal Jayaswal, Manish Yadav, Namita Maharjan, 2024-11-22 This book covers the various sources, the role of treatment technologies, system-associated factors, and future challenges with reference to microplastics in wastewater treatment plants. It also introduces

microplastics, their sources, governing factors, microbial diversity effects, and possible control approaches to minimize the exposure of microplastics to human beings. Modelling and distribution of microplastics, environmental sinks, bioindicators, and microplastics as vector in wastewater treatment units are also discussed. Focuses on microplastic pollution, mechanism of removal, treatment technologies, pathways, and fate in wastewater treatment system Discusses the factors linked to dispersion, survival, and removal efficiency of microplastics in wastewater treatment systems Helps understand 'microplastics removal'-centric sustainability aspects of wastewater treatment systems Explores the fate of microplastics in sludge-handling systems Incorporates comparative case studies from developed and developing nations This book is aimed at graduate students and researchers in environmental science and engineering, water resources management, wastewater, and chemical engineering.

science advance impact factor 2022: Environmental Engineering and Waste

Management Vineet Kumar, Sartaj Ahmad Bhat, Sunil Kumar, Pradeep Verma, 2024-07-04 This book presents fundamental principles and recent advancements in managing waste in an environmentally sustainable manner. It explores a wide array of methods and technologies designed to transform waste, thereby reducing health impacts across various stages such as waste minimization, transportation, handling, storage, and disposal of solid wastes. Moreover, the book delves into waste-contaminated site assessment methods, environmental issues and impacts, as well as the latest regulatory and policy statutes. The inclusion of case studies allows for the assessment of diverse waste management challenges, showcasing how environmental engineering methods can be applied to process industrial waste sustainably. For instance, certain sections of the book delve into the intricate microbial communities and their metabolic pathways, illustrating their role in the remediation and management of municipal waste at landfill sites. This book caters to a broad audience, including teachers, researchers, practitioners, environmental engineers, chemical engineers, soil scientists, policymakers, and students specializing in environmental engineering, chemical engineering, environmental biotechnology, and environmental science.

science advance impact factor 2022: ,

science advance impact factor 2022: *Handbook of Research in Marine Pharmaceuticals* Md.

Faiyazuddin, Khalid Rehman Hakeem, 2025-02-03 In response to the pharmaceutical industry's growing need for new chemicals for drug development, researchers are looking at marine sources for novel bioactive natural products. Oceans are packed with bioactive secondary metabolites, drawing the attention of many scientists across the globe. This new book, *Handbook of Research in Marine Pharmaceuticals: Exploring Oceanic Microbial Diversity for Human Health and Wellness*, presents a range of novel antibacterial, antiviral, and anticancer chemicals identified from marine sources, along with their potential applications in drugs for the eradication and treatment of diseases. The book covers topics such as the use of marine polysaccharides, marine biopolymers, algae and macroalgae, etc., in new drug development. The authors explore the development of cosmeceuticals and nutraceuticals from the sea as well as the medicinal qualities of cyanobacteria in drug delivery and new drug development. The volume provides an important resource that details the chemical characteristics that are helpful in identifying new uses of marine natural products for new drugs. Key features: Provides an informative analysis of the global marine-derived drug industry and market Presents the chemical characteristics that are helpful in identifying new uses of marine natural products for new drugs. Discusses recent advances in extraction and separation methods of marine natural products for drug discovery Reviews marine therapeutics with special attention to anti-cancer, antiviral, antimalarial, and anti-HIV traits With its wealth of information, this book is ideal as a resource for researchers involved in the field of pharmaceutical sciences, microbiology, biotechnology, and molecular biosciences. It will also be helpful to academicians and research students in colleges, research laboratories, industries, and universities.

science advance impact factor 2022: *Factors Impacting Student Well-Being and Coping*

Tactics Aloka, Peter Jo, 2024-08-23 Higher education institutions grapple with a pressing challenge: the well-being of their students. Amidst the transition to university life, students face a myriad of

stressors, from academic pressures to managing finances and social connections. Yet, there continues to be a lack of robust evidence and focused literature addressing this critical issue. *Factors Impacting Student Well-Being and Coping Tactics* presents a comprehensive analysis of the factors influencing mental, emotional, and social health in higher education settings. This book explores the intrinsic and extrinsic elements shaping student well-being through meticulously curated chapters, from risk factors to protective mechanisms. By offering evidence-based strategies and practical recommendations, the book empowers academics, administrators, and counselors to proactively address students' challenges and foster a supportive environment conducive to personal and scholarly growth.

science advance impact factor 2022: An Introduction to Environment, Society and Sustainability Helen Hazen, Paul Sutton, 2024-10-07 This timely and innovative book delves into the complex interplay of human activities and natural limits in generating today's sustainability challenges. By contrasting the pressures of growing populations with ecological footprints associated with consumption, the volume navigates the contested terrain where human societies generate environmental impacts. Adorned with illustrative figures, examples and case studies throughout, this book presents insightful analysis of ecological, economic, technological, and social justice responses to the challenges faced by human civilization, including land degradation, climate change, pollution, and overexploitation of natural resources. Many of these issues are wicked problems, characterized by incomplete information, multiple stakeholders, and contested approaches to addressing them. In simple terms, sustainability issues are an interplay between population growth and rising consumption, which are placing impossible demands on finite resources. Potential solutions to the crisis are split between green growth approaches that emphasize technology and institutional capacity to guide economic growth in more sustainable ways, and degrowth approaches that call for a fundamental rethinking of the way we structure society and generate value. This book emerged from a student seminar where undergraduate and graduate students highlighted sustainability topics of concern, helped consider their framing, and then assisted with co-writing several of the chapters. The volume encourages readers to consider structural questions that underpin sustainability dilemmas, and begins with four theoretical frameworks for understanding sustainability issues: ideas from the natural sciences, the population/consumption debate, economic frameworks, and ethical approaches. It then uses a systems approach to apply these theoretical ideas to complex global systems such as the atmosphere, oceans, and agriculture. This volume will be of pivotal interest to students, scholars and academics in the fields of environmental studies, environment and society, human geography and environmental geography, as well as those with an interest in these areas more generally.

science advance impact factor 2022: Behavioural Responses to a Changing World Bob B. M. Wong, Ulrika Candolin, 2025-04-23 For many animals, behavioural adjustments represent the first response to human-modified conditions. By improving reproduction and survival, such adjustments can play the lead in maintaining viable populations in the face of rapid environmental change. Behavioural responses, however, can also be maladaptive and reduce individual fitness, particularly if favourable 'reaction norms' have not yet evolved because animals are encountering conditions that they have never experienced before. Clearly, behaviour matters. But how can we capitalise on our understanding of animal behaviour to improve conservation and management outcomes? *Behavioural Responses to a Changing World: Challenges and Applications* - a companion volume to the first edition published in 2012 - examines wildlife behavioural responses to human-induced environmental change through a translational lens. Despite considerable and growing interest in research on the topic, the predictive value and practical application of what has been learned remains underappreciated and underutilized in the context of developing real-world solutions. To redress this, the current book builds upon the foundations of the original volume, but with a more applied perspective that focuses on highlighting how different forms of environmental challenges - from climate change to urbanisation - influence animal behaviour, and how we can effectively harness knowledge of animal behaviour to effect practical solutions to predicting and

mitigating the weighty impacts of a radically changed and changing world.

science advance impact factor 2022: *Observed Correction* Leticia Bode, Emily K. Vraga, 2025
In *Observed Correction*, Leticia Bode and Emily K. Vraga consider both the power of and the barriers to observed correction--users witnessing other users correct misinformation on social media. Bode and Vraga argue that when people view others directly and publicly correcting misinformation on social media, their understanding of the topic becomes more accurate. Drawing on experiments, surveys, and interviews with social media users, health professionals, fact checkers, and platform employees, Bode and Vraga offer a set of practical recommendations for how observational correction can be implemented.

science advance impact factor 2022: *Selfish Genes to Social Beings* Jonathan Silvertown, 2024-03-12
For all the selfishness of genes, they team up to survive. Is the history of life in fact a story of cooperation? Amid the violence and brutality that dominates the news, it's hard to think of ourselves as team players. But cooperation, Jonathan Silvertown argues, is a fundamental part of our make-up, and deeply woven into the whole four-billion-year history of life. Starting with human society, Silvertown digs deeper, to show how cooperation is key to the cells forming our organs, to symbiosis between organisms, to genes that band together, to the dawn of life itself. Cooperation has enabled life to thrive and become complex. Without it, life would never have begun.

science advance impact factor 2022: *Recent Advancement in Geographical Research* Jayanta Das, Asraful Alam, 2025-09-26
Geographical studies have undergone significant developments in recent times, offering new and exciting avenues for exploration. The proceeding of the International Seminar on Recent Advancement in Geographical Research: Instances from India offers a comprehensive exploration of the latest developments in the field of geography. These proceedings encompass a wide spectrum of topics, insights, and methodologies from both physical and human geography, demonstrating the multidimensional nature of the field. The first part of the proceeding, *Recent Advancements in Physical Geography*, deals with the evolving landscape of physical geography, emphasizing technological and scientific advancements. Notable chapters include research on environmental degradation assessment, sustainable agriculture through geospatial analysis, groundwater potential mapping, innovation management in natural risk prevention, and the analysis of land use and land cover changes. Cutting-edge techniques and technologies, such as remote sensing and machine learning, underpin these investigations. The second part, *Recent Advancements in Human Geography* focuses on human geography, exploring the intricate relationships between human societies and their environments. Chapters encompass a wide array of topics, including migration's impact on agriculture, household food security, and urbanization's effect on wetland ecosystems, the dynamics of urban growth, and sustainable tourism and destination loyalty. These investigations reveal the social, economic, and cultural dimensions of geography and provide insights into contemporary challenges and opportunities in the field. These proceedings represent the collective efforts of researchers, practitioners, and students who are pushing the boundaries of geographical knowledge. Together, they contribute to our understanding of the world's complex dynamics, providing valuable insights for addressing real-world challenges and fostering sustainable development.

science advance impact factor 2022: *Ecological and Social Determinants of Suicidal Behavior* S. M. Yasir Arafat, Sujita Kumar Kar, 2025-06-12
This book discusses the association between ecological and social determinants and suicidal behavior. Suicidal behavior is an extremely complex human behavior. It is an outcome of complex interactions among multiple factors like gene and environment, biopsychosocial, proximal and distal factors. Several risk factors such as psychiatric disorders, life events, social deprivation, personality traits and disorders, and substance abuse have been identified even though those vary based on culture, time, country, and methods of assessment. In recent times, evidence has shown associations among ecological variables like the human development index, the income of the country, the GINI index, educational attainment, the green environment, climate change, and suicidal behavior. At the same time, there are interlinked confounding variables that challenge the findings. Given the lack of literature discussing these

findings, this book seeks to compare and contrast the ecological aspects and suicidal behavior holistically.

science advance impact factor 2022: Apoptosis and Other forms of Cell Death in the Regulation of Inflammation in Health and Disease Christopher D. Gregory, Will Wood, Kodi Ravichandran, 2025-09-26 It has long been known that the host responses to apoptosis, especially those that govern inflammation and immunity, lie at the heart of many normal physiological processes in multiple organ systems. That such responses are likely to play key roles in the pathophysiology of many disease states has become increasingly clear. The capacity of apoptosis to influence tissue microenvironments and produce systemic effects, in addition to the relevance of other cell death processes including necroptosis, pyroptosis and ferroptosis, has many implications for regulating inflammatory mechanisms. This book provides a diverse exploration of molecular, cellular, and organismal responses to dying cells, and offers new perspectives on the roles of apoptosis and other cell-death programs in the regulation of inflammation in normal physiological processes and in disease states. The different chapters, written by top researchers in their respective fields, emphasize the responses to cell death and how the underlying mechanisms of cell-death programs are coupled to those responses. This is a unique and timely resource for researchers, scientists, and students in the biomedical sciences.

science advance impact factor 2022: Recipe for a Livable Planet William Sutton, Alexander Lotsch, Ashesh Prasann, 2024-10-16 The global agrifood system has been largely overlooked in the fight against climate change. Yet, greenhouse gas emissions from the agrifood system are so big that they alone could cause the world to miss the goal of keeping global average temperatures from rising above 1.5 centigrade compared to preindustrial levels. Greenhouse gas emissions from agrifood must be cut to net zero by 2050 to achieve this goal. 'Recipe for a Livable Planet: Achieving Net Zero Emissions in the Agrifood System' offers the first comprehensive global strategic framework to mitigate the agrifood system's contributions to climate change, detailing affordable and readily available measures that can cut nearly a third of the world's planet-heating emissions while ensuring global food security. These actions, which are urgently needed, offer three additional benefits: improving food supply reliability, strengthening the global food system's resilience to climate change, and safeguarding vulnerable populations. This practical guide outlines global actions and specific steps that countries at all income levels can take starting now, focusing on six key areas: investments, incentives, information, innovation, institutions, and inclusion. Calling for collaboration among governments, businesses, citizens, and international organizations, it maps a pathway to making agrifood a significant contributor to addressing climate change and healing the planet.

science advance impact factor 2022: Sustainable Innovations in Management in the Digital Transformation Era Rania Nafea, Shabana Faizal, Dorota Jelonek, Narendra Kumar, Jayendra P. Sankar, Ilona Pawełoszek, 2024-05-08 It is with great pleasure that I welcome you to the recently concluded conference, held on May 2-3, 2023, in the beautiful Kingdom of Bahrain. This pivotal conference was focused on "Sustainable Innovations in Management in the Digital Transformation Era". In an age defined by rapid technological advancements and digital innovation, the way we understand and carry out management is continually evolving. The conference brought together thought leaders, industry professionals, academics, and innovators from around the globe to share insights, exchange ideas, and catalyze change. The digital transformation era has not only revolutionized our personal lives but has significantly impacted the business landscape. It became a strategic priority, driving companies to reassess their business models, reinvent their strategies, and redefine their value propositions. Amidst this change, ensuring sustainability, building resilient, adaptable, and future-proof businesses became a central theme.

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