

impact factor ecological applications

impact factor ecological applications is a critical metric used to evaluate the influence and prestige of scientific journals within the field of ecology. This measure plays a significant role in guiding researchers, institutions, and funding bodies in identifying authoritative sources for ecological research and understanding the dissemination of ecological knowledge. The impact factor reflects the average number of citations received by articles published in a journal, thus serving as an indicator of the journal's relevance and scholarly importance in ecological studies. In the context of ecological applications, this metric helps to highlight journals that contribute significantly to applied ecology, conservation biology, environmental management, and sustainable development. This article explores the concept of impact factor, its calculation, and its specific implications for ecological applications. Additionally, it discusses the advantages and limitations of using impact factor as a benchmark in ecology, as well as alternative metrics and future trends in scholarly publishing within this dynamic scientific domain.

- Understanding Impact Factor in Ecological Applications
- Calculation and Interpretation of Impact Factor
- Role of Impact Factor in Ecological Research and Publishing
- Limitations and Criticisms of Impact Factor in Ecology
- Alternative Metrics for Evaluating Ecological Journals
- Future Trends in Impact Measurement for Ecological Applications

Understanding Impact Factor in Ecological Applications

The impact factor is a bibliometric indicator originally developed to assess the relative importance of scientific journals by measuring citation frequency. In ecological applications, the impact factor provides insights into which journals are most influential in disseminating research findings related to ecosystems, biodiversity, environmental policy, and applied ecological sciences. Journals with high impact factors often publish cutting-edge studies that shape conservation strategies, ecosystem management, and responses to environmental challenges.

Definition and Origin of Impact Factor

The impact factor was introduced by Eugene Garfield in the 1960s as part of the Science Citation Index. It is calculated annually and reflects the average number of citations to articles published in a given journal over the preceding two years. This metric has since become a standard tool for assessing journal quality across various scientific disciplines, including ecology.

Significance for Ecological Applications

In ecological applications, impact factor helps researchers identify leading journals where impactful ecological research is published. It also assists funding agencies and academic institutions in evaluating the research output and quality of ecologists. High-impact ecological journals are typically those that publish influential studies with broad implications for ecosystem conservation, climate change adaptation, and sustainable resource management.

Calculation and Interpretation of Impact Factor

Understanding how the impact factor is calculated is essential for interpreting its value within ecological applications. The formula involves dividing the number of citations in a given year to articles published in the previous two years by the total number of “citable” articles published in those two years.

Calculation Methodology

The impact factor for a journal in year X is calculated as follows:

1. Count the total citations in year X to articles published in years X-1 and X-2.
2. Determine the total number of citable articles (research articles and reviews) published in years X-1 and X-2.
3. Divide the number of citations by the total number of citable articles.

This calculation yields the average number of citations per article, which is used as a proxy for journal influence.

Factors Influencing Impact Factor in Ecology Journals

Several factors affect the impact factor of ecological journals, including:

- The journal's scope and target audience
- The frequency and volume of publication
- Trends and hot topics in ecological research
- The prominence of the editorial board and contributors
- Open access policies increasing article visibility

Role of Impact Factor in Ecological Research

and Publishing

The impact factor serves multiple purposes in the ecology research community, influencing publication decisions, academic evaluations, and research funding allocations.

Guiding Researchers' Publication Choices

Ecologists often prioritize submitting their work to journals with higher impact factors to maximize the visibility and perceived credibility of their research. Publishing in high-impact ecological journals can enhance professional recognition and career advancement.

Assessing Research Quality and Influence

Institutions and funding agencies frequently use the impact factor as one criterion to assess the quality and influence of ecological research outputs. Although it is not a direct measure of individual article quality, impact factor can serve as a proxy for the journal's overall reputation in ecological sciences.

Impact on Ecological Policy and Management

Research published in journals with high impact factors often informs environmental policies and management practices. The dissemination of influential ecological findings through such journals facilitates evidence-based decision-making in conservation, habitat restoration, and addressing climate change impacts.

Limitations and Criticisms of Impact Factor in Ecology

Despite its widespread use, the impact factor has notable limitations and criticisms, especially when applied to ecological applications.

Skewed Citation Patterns

Citation practices vary widely across ecological subfields, leading to disparities in impact factor values. Some areas, such as molecular ecology, may receive more citations than others like ecosystem restoration, creating an uneven playing field for journals covering different topics.

Short Citation Window

The two-year citation window used in impact factor calculation may not capture the long-term significance of ecological research, which often has extended periods before its full impact is realized.

Influence of Review Articles

Journals that publish many review articles tend to have higher impact factors because reviews typically attract more citations. This can distort the perception of a journal's influence in primary ecological research.

Potential for Manipulation

Some journals may engage in practices aimed at artificially boosting their impact factor, such as encouraging self-citations or preferentially publishing articles likely to attract citations, which can undermine the metric's reliability.

Alternative Metrics for Evaluating Ecological Journals

Given the limitations of impact factor, alternative metrics have been developed to provide a more comprehensive evaluation of ecological journals and research impact.

Eigenfactor Score

The Eigenfactor score measures the overall influence of a journal by considering the origin of citations and adjusting for citation network structure. It reflects the journal's importance within the broader scientific community.

Article Influence Score

This metric assesses the average influence of a journal's articles over five years, providing a longer-term perspective than the traditional impact factor.

h-Index and CiteScore

The h-index measures both productivity and citation impact of a journal's articles, while CiteScore calculates citations over a four-year period, offering alternative time frames and citation considerations relevant to ecological applications.

Altmetrics

Altmetrics track online attention and engagement with research outputs, including social media mentions, downloads, and media coverage, offering insights into the societal and practical impact of ecological studies beyond academia.

Future Trends in Impact Measurement for Ecological Applications

The landscape of scholarly publishing and impact measurement continues to evolve, with emerging trends influencing how ecological applications are assessed and disseminated.

Open Access and Impact

The rise of open access publishing is increasing the accessibility and citation potential of ecological research, potentially altering traditional impact factor dynamics.

Integration of Multiple Metrics

There is growing recognition of the need to use multiple metrics in combination to evaluate ecological journals and research more accurately, balancing quantitative and qualitative assessments.

Focus on Societal Impact

Future impact assessments are likely to place greater emphasis on the real-world applications of ecological research, including policy influence, conservation outcomes, and public engagement.

Technological Advances in Citation Analysis

Advancements in data analytics, artificial intelligence, and machine learning are enabling more sophisticated and nuanced evaluations of research impact in ecology, moving beyond traditional citation counts.

Frequently Asked Questions

What is the impact factor of the journal Ecological Applications?

The impact factor of Ecological Applications varies yearly; as of the most recent Journal Citation Reports, it is approximately 4.5, reflecting its influence in the field of applied ecology.

How is the impact factor of Ecological Applications calculated?

The impact factor is calculated by dividing the number of citations in a given year to articles published in the previous two years by the total number of articles published in those two years in Ecological Applications.

Why is the impact factor important for Ecological Applications?

The impact factor indicates the journal's influence and prestige in the ecological research community, helping authors decide where to publish and aiding institutions in evaluating research quality.

Has the impact factor of Ecological Applications increased recently?

Yes, Ecological Applications has seen a steady increase in its impact factor over recent years, reflecting growing recognition and citation of its published research.

How does Ecological Applications' impact factor compare to other ecology journals?

Ecological Applications' impact factor is competitive among applied ecology journals, often ranking in the top quartile, though it may be lower than some broad-scope ecology journals like Ecology Letters.

Can the impact factor of Ecological Applications influence funding decisions?

Yes, publications in journals with higher impact factors like Ecological Applications can positively influence grant and funding decisions by demonstrating research impact and quality.

What types of articles in Ecological Applications contribute most to its impact factor?

Highly cited articles often include empirical studies, modeling approaches, and synthesis papers addressing pressing ecological problems and management applications.

Are there alternative metrics to the impact factor for Ecological Applications?

Yes, alternatives include the h-index, CiteScore, Eigenfactor, and altmetrics, which provide additional perspectives on the journal's influence and reach.

How can authors increase the impact of their articles in Ecological Applications?

Authors can enhance impact by choosing relevant, novel topics, ensuring rigorous methodology, engaging in effective dissemination, and collaborating with other researchers.

Does the impact factor of Ecological Applications

reflect the quality of individual articles?

While the impact factor reflects the average citation rate of articles in the journal, it does not necessarily indicate the quality or impact of any single article published within Ecological Applications.

Additional Resources

1. *Ecological Applications: Principles and Methods*

This book provides a comprehensive overview of the principles underlying ecological research and its practical applications. It explores methodologies for assessing ecosystem health and biodiversity, emphasizing the use of impact factors in evaluating ecological interventions. The text is ideal for ecologists, environmental managers, and policy makers interested in scientifically informed decision-making.

2. *Measuring Ecological Impact: Quantitative Approaches and Metrics*

Focusing on quantitative tools, this book delves into various metrics used to assess ecological impact, including the widely used impact factor. It covers statistical techniques, data collection protocols, and case studies that illustrate real-world applications. Readers will gain a solid foundation in evaluating ecological changes resulting from human activities and natural events.

3. *Ecological Impact Assessment: Concepts and Case Studies*

This volume introduces the fundamental concepts of ecological impact assessment (EIA) and presents detailed case studies from diverse ecosystems. It highlights how impact factors are integrated into environmental assessments to predict and mitigate adverse effects. The book is a valuable resource for students and professionals involved in environmental planning and conservation.

4. *Applied Ecology and Environmental Impact Analysis*

Designed for applied ecologists, this text bridges theory and practice in environmental impact analysis. It discusses the role of impact factors in managing ecological projects, restoration efforts, and sustainability assessments. The book also includes guidelines for conducting impact studies and interpreting ecological data effectively.

5. *Impact Factors in Conservation Ecology*

This book explores the significance of impact factors in conservation biology and ecology. It addresses how these metrics influence conservation priorities, habitat management, and species protection strategies. Featuring contributions from leading ecologists, the book provides insights into optimizing conservation outcomes through evidence-based impact evaluation.

6. *Ecological Metrics and Their Applications in Environmental Science*

Covering a broad range of ecological metrics, this book emphasizes their application in environmental science and policy. It explains how impact factors help quantify ecosystem services, pollution effects, and habitat changes. The text is suitable for researchers and practitioners seeking to incorporate rigorous impact measurement into their work.

7. *Environmental Impact and Ecological Risk Assessment*

This detailed guide focuses on methodologies for assessing environmental impacts and associated ecological risks. It discusses how impact factors contribute to risk characterization and management in various ecological contexts. The book is particularly useful for regulatory agencies,

environmental consultants, and risk assessors.

8. *Quantifying Human Impacts on Ecosystems: Tools and Techniques*

Exploring the human dimension of ecological change, this book presents tools and techniques for quantifying anthropogenic impacts using impact factors. It covers remote sensing, modeling, and field-based approaches to evaluate ecosystem alterations. The book aims to support efforts in sustainable development and environmental stewardship.

9. *Integrating Impact Factors into Ecological Modeling and Decision Making*

This book focuses on the integration of impact factors into ecological models to inform decision-making processes. It highlights case studies where impact evaluation has shaped policy and management strategies. Readers will learn how to incorporate impact data into predictive models to improve ecological outcomes and resource management.

Impact Factor Ecological Applications

Find other PDF articles:

<https://staging.massdevelopment.com/archive-library-502/pdf?ID=jdp31-5487&title=matrix-absence-management-forms.pdf>

impact factor ecological applications: Geotechnical and Environmental Applications of Karst Geology and Hydrology B.F. Beck, J.G. Herring, 2001-01-01 This text covers topics such as sinkhole formation and regional studies of sinkholes and karst. Issues addressed are taken from the 8th multidisciplinary conference on this subject and chart the characteristics of sinkholes and karst as well as their environmental repercussions.

impact factor ecological applications: *Smart Nanomaterials for Environmental Applications* Olusola Olaitan Ayeleru, Azeez Olayiwola Idris, Sadanand Pandey, Peter Apata Olubambi, 2024-08-26 Smart nanomaterials are making their presence ever so noticeable in areas like environmental protection and remediation, as well as in many other fields of study. The international team of expert researchers behind Smart Nanomaterials for Environmental Applications aims to spotlight the latest, rapid developments in the design and manipulation of materials at the nanoscale and to concisely present information regarding their novel methods of utilization for the safeguard of the environment, while at the same time apprising readers of challenges encountered and anticipated prospects. The volume illustrates state-of-the-art, actionable content, which is relevant and extremely valuable for those who want to apply this up-to-date knowledge in industry too. - Offers fundamentals of smart nanomaterials, including characterization, design, and fabrication methods - Includes advanced information on fine-tuning different morphologies of smart nanomaterials - Features three case studies on real-life applications of smart nanomaterials

impact factor ecological applications: Environmental Applications of Digital Terrain Modeling John P. Wilson, 2018-02-15 A digital elevation model (DEM) is a digital representation of ground surface topography or terrain. It is also widely known as a digital terrain model (DTM). A DEM can be represented as a raster (a grid of squares) or as a vector based triangular irregular network (TIN). DEMs are commonly built using remote sensing techniques, but they may also be built from land surveying. DEMs are used often in geographic information systems, and are the most common basis for digitally-produced relief maps. The terrain surface can be described as compromising of two different elements; random and systematic. The random (stochastic) elements

are the continuous surfaces with continuously varying relief. It would take an endless number of points to describe exactly the random terrain shapes, but these can be described in practice with a network of point. It is usual to use a network that creates sloping triangles or regular quadrants. This book examines how the methods and data sources used to generate DEMs and calculate land surface parameters have changed over the past 25 years. The primary goal is to describe the state-of-the-art for a typical digital terrain modeling workflow that starts with data capture, continues with data preprocessing and DEM generation, and concludes with the calculation of one or more primary and secondary land surface parameters. Taken as a whole, this book covers the basic theory behind the methods, the instrumentation, analysis and interpretation that are embedded in the modern digital terrain modeling workflow, the strengths and weaknesses of the various methods that the terrain analyst must choose among, typical applications of the results emanating from these terrain modeling workflows, and future directions. This book is intended for researchers and practitioners who wish to use DEMs, land surface parameters, land surface objects and landforms in environmental projects. The book will also be valuable as a reference text for environmental scientists who are specialists in related fields and wish to integrate these kinds of digital terrain workflows and outputs into their own specialized work environments.

impact factor ecological applications: The Controversy over Marine Protected Areas Alex Caveen, Nick Polunin, Tim Gray, Selina Marguerite Stead, 2014-10-17 This book is a critical analysis of the concept of marine protected areas (MPAs) particularly as a tool for marine resource management. It explains the reasons for the extraordinary rise of MPAs to the top of the political agenda for marine policy, and evaluates the scientific credentials for the unprecedented popularity of this management option. The book reveals the role played by two policy networks – epistemic community and advocacy coalition – in promoting the notion of MPA, showing how advocacy for marine reserves by some scientists based on limited evidence of fisheries benefits has led to a blurring of the boundary between science and politics. Second, the study investigates whether the scientific consensus on MPAs has resulted in a publication bias, whereby pro-MPA articles are given preferential treatment by peer-reviewed academic journals, though it found only limited evidence of such a bias. Third, the project conducts a systematic review of the literature to determine the ecological effects of MPAs, and reaches the conclusion that there is little proof of a positive impact on finfish populations in temperate waters. Fourth, the study uses discourse analysis to trace the effects of a public campaigning policy network on marine conservation zones (MCZs) in England, which demonstrated that there was considerable confusion over the objectives that MCZs were being designated to achieve. The book's conclusion is that the MPA issue shows the power of ideas in marine governance, but offers a caution that scientists who cross the line between science and politics risk exaggerating the benefits of MPAs by glossing over uncertainties in the data, which may antagonise the fishing industry, delay resolution of the MPA issue, and weaken public faith in marine science if and when the benefits of MCZs are subsequently seen to be limited.

impact factor ecological applications: Models in Ecosystem Science Charles D. Canham, Jonathan J. Cole, William K. Lauenroth, 2021-04-13 Quantitative models are crucial to almost every area of ecosystem science. They provide a logical structure that guides and informs empirical observations of ecosystem processes. They play a particularly crucial role in synthesizing and integrating our understanding of the immense diversity of ecosystem structure and function. Increasingly, models are being called on to predict the effects of human actions on natural ecosystems. Despite the widespread use of models, there exists intense debate within the field over a wide range of practical and philosophical issues pertaining to quantitative modeling. This book--which grew out of a gathering of leading experts at the ninth Cary Conference--explores those issues. The book opens with an overview of the status and role of modeling in ecosystem science, including perspectives on the long-running debate over the appropriate level of complexity in models. This is followed by eight chapters that address the critical issue of evaluating ecosystem models, including methods of addressing uncertainty. Next come several case studies of the role of models in environmental policy and management. A section on the future of modeling in ecosystem

science focuses on increasing the use of modeling in undergraduate education and the modeling skills of professionals within the field. The benefits and limitations of predictive (versus observational) models are also considered in detail. Written by stellar contributors, this book grants access to the state of the art and science of ecosystem modeling.

impact factor ecological applications: Encyclopedia of Ecology Brian D. Fath, 2014-11-03 The groundbreaking Encyclopedia of Ecology provides an authoritative and comprehensive coverage of the complete field of ecology, from general to applied. It includes over 500 detailed entries, structured to provide the user with complete coverage of the core knowledge, accessed as intuitively as possible, and heavily cross-referenced. Written by an international team of leading experts, this revolutionary encyclopedia will serve as a one-stop-shop to concise, stand-alone articles to be used as a point of entry for undergraduate students, or as a tool for active researchers looking for the latest information in the field. Entries cover a range of topics, including: Behavioral Ecology Ecological Processes Ecological Modeling Ecological Engineering Ecological Indicators Ecological Informatics Ecosystems Ecotoxicology Evolutionary Ecology General Ecology Global Ecology Human Ecology System Ecology The first reference work to cover all aspects of ecology, from basic to applied Over 500 concise, stand-alone articles are written by prominent leaders in the field Article text is supported by full-color photos, drawings, tables, and other visual material Fully indexed and cross referenced with detailed references for further study Writing level is suited to both the expert and non-expert Available electronically on ScienceDirect shortly upon publication

impact factor ecological applications: Dynamics of Tropical Communities D. M. Newbery, H. H. T. Prins, N. D. Brown, 1998-08 This 1998 volume challenges the validity of the dynamic equilibrium concept for tropical forests.

impact factor ecological applications: Nanoferrites for Emerging Environmental Applications Atul Thakur, Preeti Thakur, 2024-09-25 Nanoferrites for Emerging Environmental Applications discusses the synthesis and structure of nanoferrites, as well as their electrical, optical, and magnetic properties. This book also provides a detailed discussion of the use of nanoferrites for various environmental applications, such as for water and air pollution detection and remediation. This book covers almost every aspect of nanoferrites for environmental applications and will be of great use to researchers working in multidisciplinary areas. Nanoferrites' superior electronic, optical, and magnetic properties make them promising agents in a wide spectrum of applications. After looking at the fundamentals of nanoferrites, this book proceeds to analyze their application in a comprehensive range of environmental applications. Topics covered include wastewater treatment, the removal of heavy metal ions, remediation of organic and inorganic pollutants, and their use in the detection and remediation of both air and solid pollution. Future opportunities for research are also addressed. - Focuses on nanoferrite applications for air and water pollution detection, and remediation through purification - Includes detailed synthesis procedures and advanced characterization methods for nanoferrites - Explores ways that nanoferrites can be used in various environmental applications and then be recovered after use

impact factor ecological applications: Channel Islands National Marine Sanctuary, Consideration of Marine Reserves and Marine Conservation Areas, 2007

impact factor ecological applications: Invasion Ecology Julie L. Lockwood, Martha F. Hoopes, Michael P. Marchetti, 2013-04-05 This new edition of Invasion Ecology provides a comprehensive and updated introduction to all aspects of biological invasion by non-native species. Highlighting important research findings associated with each stage of invasion, the book provides an overview of the invasion process from transportation patterns and causes of establishment success to ecological impacts, invader management, and post-invasion evolution. The authors have produced new chapters on predicting and preventing invasion, managing and eradicating invasive species, and invasion dynamics in a changing climate. Modern global trade and travel have led to unprecedented movement of non-native species by humans with unforeseen, interesting, and occasionally devastating consequences. Increasing recognition of the problems associated with invasion has led to a rapid growth in research into the dynamics of non-native species and their

adverse effects on native biota and human economies. This book provides a synthesis of this fast growing field of research and is an essential text for undergraduate and graduate students in ecology and conservation management. Additional resources are available at <http://www.wiley.com/go/invasionecology>

impact factor ecological applications: *National Fire Plan* United States. Congress. Senate. Committee on Energy and Natural Resources. Subcommittee on Forests and Public Land Management, 2001

impact factor ecological applications: **Arctic Climate Impact Assessment - Scientific Report** Arctic Climate Impact Assessment, 2005-11-07 Arctic Climate Impact Assessment was prepared by an international team of over 300 scientists, experts, and knowledgeable members of indigenous communities, and is the most comprehensive volume on Arctic climate change available. Illustrated in full color throughout.

impact factor ecological applications: New Models for Ecosystem Dynamics and Restoration Richard J. Hobbs, Katharine N. Suding, Peter Society for Ecological Restoration International, 2013-03-19 As scientific understanding about ecological processes has grown, the idea that ecosystem dynamics are complex, nonlinear, and often unpredictable has gained prominence. Of particular importance is the idea that rather than following an inevitable progression toward an ultimate endpoint, some ecosystems may occur in a number of states depending on past and present ecological conditions. The emerging idea of “restoration thresholds” also enables scientists to recognize when ecological systems are likely to recover on their own and when active restoration efforts are needed. Conceptual models based on alternative stable states and restoration thresholds can help inform restoration efforts. *New Models for Ecosystem Dynamics and Restoration* brings together leading experts from around the world to explore how conceptual models of ecosystem dynamics can be applied to the recovery of degraded systems and how recent advances in our understanding of ecosystem and landscape dynamics can be translated into conceptual and practical frameworks for restoration. In the first part of the book, background chapters present and discuss the basic concepts and models and explore the implications of new scientific research on restoration practice. The second part considers the dynamics and restoration of different ecosystems, ranging from arid lands to grasslands, woodlands, and savannahs, to forests and wetlands, to production landscapes. A summary chapter by the editors discusses the implications of theory and practice of the ideas described in preceding chapters. *New Models for Ecosystem Dynamics and Restoration* aims to widen the scope and increase the application of threshold models by critiquing their application in a wide range of ecosystem types. It will also help scientists and restorationists correctly diagnose ecosystem damage, identify restoration thresholds, and develop corrective methodologies that can overcome such thresholds.

impact factor ecological applications: **Environmental Modelling** John Wainwright, Mark Mulligan, 2013-01-22 Simulation models are an established method used to investigate processes and solve practical problems in a wide variety of disciplines. Central to the concept of this second edition is the idea that environmental systems are complex, open systems. The authors present the diversity of approaches to dealing with environmental complexity and then encourage readers to make comparisons between these approaches and between different disciplines. *Environmental Modelling: Finding Simplicity in Complexity* 2nd edition is divided into four main sections: An overview of methods and approaches to modelling. State of the art for modelling environmental processes Tools used and models for management Current and future developments. The second edition evolves from the first by providing additional emphasis and material for those students wishing to specialize in environmental modelling. This edition: Focuses on simplifying complex environmental systems. Reviews current software, tools and techniques for modelling. Gives practical examples from a wide variety of disciplines, e.g. climatology, ecology, hydrology, geomorphology and engineering. Has an associated website containing colour images, links to WWW resources and chapter support pages, including data sets relating to case studies, exercises and model animations. This book is suitable for final year undergraduates and postgraduates in

environmental modelling, environmental science, civil engineering and biology who will already be familiar with the subject and are moving on to specialize in the field. It is also designed to appeal to professionals interested in the environmental sciences, including environmental consultants, government employees, civil engineers, geographers, ecologists, meteorologists, and geochemists.

impact factor ecological applications: Ecology and Conservation of Forest Birds Grzegorz Mikusiński, Jean-Michel Roberge, Robert J. Fuller, 2018-03-29 An authoritative review of the ecology of forest birds and their conservation issues throughout the Northern Hemisphere.

impact factor ecological applications: *The Forests Handbook, Volume 2* Julian Evans, 2008-04-15 The future of the world's forests is at the forefront of environmental debate. Rising concerns over the effects of deforestation and climate change are highlighting the need both to conserve and manage existing forests and woodland through sustainable forestry practices. The Forests Handbook, written by an international team of both scientists and practitioners, presents an integrated approach to forests and forestry, applying our present understanding of forest science to management practices, as a basis for achieving sustainability. Volume One presents an overview of the world's forests; their locations and what they are like, the science of how they operate as complex ecosystems and how they interact with their environment. Volume Two applies this science to reality; it focuses on forestry interventions and their impact, the principles governing how to protect forests and on how we can better harness the enormous benefits forests offer. Case studies are drawn from several different countries and are used to illustrate the key points. Development specialists, forest managers and those involved with land and land-use will find this handbook a valuable and comprehensive overview of forest science and forestry practice. Researchers and students of forestry, biology, ecology and geography will find it equally accessible and useful.

impact factor ecological applications: Bioeconomics of Invasive Species Reuben P. Keller, David M. Lodge, Mark A. Lewis, Jason F. Shogren, 2009-04-22 This book brings ecology and economics together in new ways to address how we deal with the dynamics and impacts of invasive species. It is the outcome of many years of collaborative research between a small group of economists and ecologists.

impact factor ecological applications: Ecology of North American Freshwater Fishes Stephen T. Ross Ph. D., 2013-06-01 The North American freshwater fish fauna is the most diverse and thoroughly researched temperate fish fauna in the world. Ecology of North American Freshwater Fishes is the only textbook to provide advanced undergraduate and graduate students and researchers with an up-to-date and integrated view of the ecological and evolutionary concepts, principles, and processes involved in the formation and maintenance of this fauna. Ecology of North American Freshwater Fishes provides readers with a broad understanding of why specific species and assemblages occur in particular places. Additionally, the text explores how individuals and species interact with each other and with their environments, how such interactions have been altered by anthropogenic impacts, and the relative success of efforts to restore damaged ecosystems. This book is designed for use in courses related to aquatic and fish ecology, fish biology, ichthyology, and related advanced ecology and conservation courses, and is divided into five sections for ease of use. Chapter summaries, supplemental reading lists, online sources, extensive figures, and color photography are included to guide readers through the material and facilitate student learning. Part 1: Faunal origins, evolution, and diversity Presents a broad picture—both spatially and temporally—of the derivation of the fauna, including global and regional geological and climatological processes and their effects on North American fishes. Part 2: Formation, maintenance, and persistence of local populations and assemblages Focuses on how local fish populations and assemblages are formed and how they persist, or not, through time. Part 3: Form and function Deals with the relationship of body form and life history patterns as they are related to ecological functions. Part 4: Interactions among individuals and species Discusses the numerous interactions among individuals and species through communication, competition, predation, mutualism, and facilitation. Part 5: Issues in conservation Focuses on several primary conservation issues such as flow alterations and the increasing biotic homogenization of faunas.

impact factor ecological applications: Place Matters Dawn J. Wright, Astrid J. Scholz, 2005

Although the ocean provides living space for about 97 percent of life on Earth, less than 5 percent of the ocean below the surface has actually been seen, let alone explored. Now, using the geographic information system (GIS), marine scientists are gaining new insights into a once-mysterious world. A technologically sophisticated database, information-management, and display system, GIS holds tremendous potential for mapping, interpreting, and managing ocean environments--from the seafloor to the seafloor to the shoreline. Place Matters explores how marine GIS is contributing to the understanding, management, and conservation of the shores and ocean of the Pacific Northwest, which is becoming a hotbed of marine GIS development and applications as scientists expand the use of this cutting-edge technology to a variety of ocean science, policy, and management issues. Using these geospatial databases and tools, scientists, resource managers, and conservationists--often in collaboration--are making advances in the way that data are collected, documented, used, shared, and saved. The contributors to Place Matters show how together they are using GIS to handle and exploit present and future data streams from observatories, experiments, numerical models, simulations, and other sources, yielding fresh insights into oceanographic, ecological, and socioeconomic conditions of the marine environment. The book begins with a conceptual framework, laying out selected methods and models for conservation-based marine GIS. Chapters in the second section describe working examples of marine GIS tools and large-scale implementations. The final section focuses on the use of GIS by environmental advocacy and local citizens' organizations. A companion Web site includes GIS maps and databases, as well as extensive Web-based resources. With its unique focus on the use of GIS to solve marine conservation problems, Place Matters offers an important new resource for all who study and work to protect the world's oceans.

impact factor ecological applications: Practical Conservation Biology David Lindenmayer,

Mark Burgman, 2005-10-26 Practical Conservation Biology covers the complete array of topics that are central to conservation biology and natural resource management, thus providing the essential framework for under-graduate and post-graduate courses in these subject areas. Written by two of the world's leading environment experts, it is a 'must have' reference for environment professionals in government, non-government and industry sectors. The book reflects the latest thinking on key topics such as extinction risks, losses of genetic variability, threatening processes, fire effects, landscape fragmentation, habitat loss and vegetation clearing, reserve design, sustainable harvesting of natural populations, population viability analysis, risk assessment, conservation biology policy, human population growth and its impacts on biodiversity. Practical Conservation Biology deals primarily with the Australian context but also includes many overseas case studies. The book is the most comprehensive assessment of conservation topics in Australia and one of the most comprehensive worldwide. Winner of the 2006 Whitley Award for Best Conservation Text.

Related to impact factor ecological applications

“Genshin Impact” - 3 Impact 3 Impact

SCI JCR SCI JCR Impact Factor

effect, affect, impact - effect, affect, impact 1. effect. To

effect () which is an effect () The new rules will effect (), which is an

Communications Earth & Environment - Communications Earth & Environment Nature Geoscience Nature

csgo rating rws kast rating rating

0.9 KD 1

Impact - 2011 1

2025 win11 - win11: win7 win7 win11 win10

pc配置要求 200M 内存 30.1G 硬盘 192G 内存 290m

内存 30.4G 硬盘 192G 内存 290m

10 分钟 - 10 分钟 research artical 10 分钟 IF 292 IF

Nature synthesis - Nature Synthesis JACS Nature Synthesis

Genshin Impact - Impact 3 Impact 3

SCI JCR SCI JCR Impact Factor

effect, affect, impact - effect, affect, impact 1. effect. To effect () which is an effect () The new rules will effect (), which is an

Communications Earth & Environment - Communications Earth & Environment Nature Geoscience Nature

csgo rating rws kast rating rating 0.9 KD 1

Impact - 2011 1

2025 win11 - win11: win7 win7 win11 win10

pc配置要求 200M 内存 30.1G 硬盘 192G 内存 290m

内存 30.4G 硬盘 192G 内存 290m

10 分钟 - 10 分钟 research artical 10 分钟 IF 292 IF

Nature synthesis - Nature Synthesis JACS Nature Synthesis

Genshin Impact - Impact 3 Impact 3

SCI JCR SCI JCR Impact Factor

effect, affect, impact - effect, affect, impact 1. effect. To effect () which is an effect () The new rules will effect (), which is an

Communications Earth & Environment - Communications Earth & Environment Nature Geoscience Nature

csgo rating rws kast rating rating 0.9 KD 1

Impact - 2011 1

2025 win11 - win11: win7 win7 win11 win10

pc配置要求 200M 内存 30.1G 硬盘 192G 内存 290m

内存 30.4G 硬盘 192G 内存 290m

10 分钟 - 10 分钟 research artical 10 分钟 IF 292 IF

Nature synthesis - Nature Synthesis JACS Nature Synthesis

Genshin Impact - Impact 3 Impact 3

SCI JCR SCI JCR Impact Factor

effect, affect, impact “” - effect, affect, impact 1. effect. To effect () / ← which is an effect () The new rules will effect (), which is an

Communications Earth & Environment - Communications Earth & Environment Nature Geoscience Nature

csgo rating rws kast rating rating rating 0.9 KD 1

Impact - 2011 1

2025 win11 - win11: win7 win7 win11 win10

pc **200M** C 30.1G D 192G 290m C 30.4G

10 - 10 research artical 10 IF 292 IF

Nature synthesis - Nature Synthesis JACS Nature Synthesis

Genshin Impact - Impact 3 Impact 3

SCI JCR SCI JCR Impact Factor

effect, affect, impact “” - effect, affect, impact 1. effect. To effect () / ← which is an effect () The new rules will effect (), which is an

Communications Earth & Environment - Communications Earth & Environment Nature Geoscience Nature

csgo rating rws kast rating rating rating 0.9 KD 1

Impact - 2011 1

2025 win11 - win11: win7 win7 win11 win10

pc **200M** C 30.1G D 192G 290m C 30.4G

10 - 10 research artical 10 IF 292 IF

Nature synthesis - Nature Synthesis JACS Nature Synthesis

Genshin Impact - Impact 3 Impact 3

SCI JCR SCI JCR Impact Factor

effect, affect, impact “” - effect, affect, impact 1. effect. To effect () / ← which is an effect () The new rules will effect (), which is an

Communications Earth & Environment - Communications Earth & Environment Nature Geoscience Nature

csgo rating rws kast rating rating rating 0.9 KD 1

Impact - 2011 1

2025 win11 - win11: win7 win7 win11 win10

pc **200M** C 30.1G D 192G 290m

Research article C30.4G
10 - 10 research article 10
IF292 IF
Nature synthesis - Nature Synthesis JACS
Nature Synthesis

Related to impact factor ecological applications

ESA Journals Achieve Historically High Impact Factors (esa.org4y) The impact factors for the Ecological Society of America's five journals have increased by 18% on average, according to the 2021 Edition of the Journal Citation Reports® (JCR) published by Clarivate

ESA Journals Achieve Historically High Impact Factors (esa.org4y) The impact factors for the Ecological Society of America's five journals have increased by 18% on average, according to the 2021 Edition of the Journal Citation Reports® (JCR) published by Clarivate

Back to Home: <https://staging.massdevelopment.com>