impact factor redox biology

impact factor redox biology is a critical metric for evaluating the influence and prestige of scientific journals within the field of redox biology. This field, which studies the roles of oxidation-reduction reactions in biological systems, has gained significant attention due to its implications in health, disease, and aging. Understanding the impact factor of journals specializing in redox biology helps researchers, institutions, and funding bodies assess the quality and reach of published research. This article explores the concept of impact factor, its relevance to redox biology journals, factors influencing these metrics, and how it reflects the advancement of knowledge within the discipline. Additionally, the piece discusses notable journals in the redox biology domain and how impact factors guide academic and clinical research priorities. The following sections provide an in-depth look at these aspects for a comprehensive understanding of impact factor in redox biology.

Understanding Impact Factor and Its Importance in Redox Biology

The impact factor is a quantitative measure that reflects the average number of citations received by articles published in a scientific journal over a specific period, typically two years. In the context of redox biology, a field focused on the study of reactive oxygen species, antioxidant mechanisms, and redox signaling pathways, the impact factor serves as an indicator of a journal’s scientific influence and relevance.

Definition and Calculation of Impact Factor

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 "citable items" published during those two years. This metric provides a snapshot of how frequently the average article in a journal is cited, which is often interpreted as a proxy for quality and importance.

Significance in Redox Biology Research

Due to the interdisciplinary nature of redox biology, which intersects with molecular biology, biochemistry, and medicine, journals with high impact factors attract cutting-edge research that influences multiple scientific domains. The impact factor helps researchers identify leading journals for disseminating their findings and for sourcing authoritative literature.

Key Journals in Redox Biology and Their Impact Factors

Several journals specialize in or prominently feature research related to redox biology. These journals vary in impact factor, reflecting their reach and reputation within the scientific community. Understanding these journals aids researchers in selecting appropriate publication venues and staying informed about significant advancements.

Top-Ranked Redox Biology Journals

Journals with high impact factors in the redox biology field often publish innovative research on oxidative stress, redox signaling, and associated pathologies. Examples include:

- **Redox Biology**: A leading journal dedicated exclusively to redox biology research, consistently ranking high in impact factor due to its focused scope.
- **Free Radical Biology and Medicine**: Known for publishing comprehensive studies on free radicals and oxidative damage, with a competitive impact factor.
- **Antioxidants & Redox Signaling**: Emphasizes the molecular mechanisms of redox regulation and has a significant impact factor within the field.

Emerging Journals and Their Growing Influence

In addition to established journals, newer publications have begun gaining recognition in redox biology, as reflected in rising impact factors. These journals often feature interdisciplinary research and novel methodologies that push the boundaries of redox science.

Factors Influencing Impact Factors in Redox Biology Journals

Several factors contribute to the impact factor of journals in redox biology, affecting how frequently articles are cited and the overall reputation of the publication.

Quality and Novelty of Published Research

Journals that consistently publish high-quality, innovative studies in redox biology tend to achieve higher citation rates. Breakthrough research on redox mechanisms, disease implications, and therapeutic approaches attracts broader academic attention.

Field-Specific Citation Patterns

Redox biology, as a rapidly evolving field, experiences dynamic citation behaviors. Some subfields may have high citation frequencies due to clinical relevance, while others may have slower citation accumulation depending on research trends.

Journal Accessibility and Indexing

Open access policies and indexing in key databases increase the visibility and citation potential of redox biology journals. Wider dissemination facilitates greater impact factor growth.

Editorial Policies and Peer Review Standards

Strict peer review and editorial quality control ensure the publication of credible and impactful research, thereby positively influencing a journal’s impact factor.

The Role of Impact Factor in Research and Publication Decisions

Impact factor redox biology plays a pivotal role in guiding decisions for researchers, academic institutions, and funding agencies regarding publication strategies and research evaluations.

Choosing the Right Journal for Publication

Researchers often prioritize journals with higher impact factors to maximize the visibility and perceived significance of their work. In redox biology, selecting a journal with an appropriate impact factor aligns with career advancement and funding prospects.

Academic and Institutional Evaluations

Universities and research institutions use impact factors as part of assessment criteria for faculty performance, grant awards, and tenure decisions. In redox biology, publishing in high-impact journals is often synonymous with scientific excellence.

Influence on Research Funding and Collaborations

Funding bodies may consider the impact factor of journals where preliminary or previous research was published when awarding grants. Additionally, collaborations often form around researchers who publish in prestigious redox biology journals.

Limitations and Criticisms of Impact Factor in Redox Biology

Despite its widespread use, the impact factor has several limitations and is subject to criticism, particularly in the context of specialized fields like redox biology.

Overemphasis on Citation Quantity

The impact factor measures citation quantity but not necessarily citation quality or the real-world impact of research. Highly cited articles may not always translate into meaningful scientific progress.

Potential for Manipulation

Editorial practices such as encouraging citation of journal articles or publishing review articles can artificially inflate impact factors, which may misrepresent a journal’s true influence in redox biology.

Neglect of Long-Term Impact

The two-year citation window used in impact factor calculations may undervalue research whose significance emerges over longer periods, which is often the case in complex fields like redox biology.

Bias Against Specialized or Emerging Journals

Journals focused on niche or emerging areas of redox biology may have lower impact factors despite publishing high-quality research, potentially disadvantaging authors who choose these venues.

Alternative Metrics and Complementary Measures

To address these limitations, alternative metrics such as article-level citations, h-index, and altmetrics provide additional insights into the impact of research within redox biology.

1. Impact factor is a key metric but should be considered alongside other qualitative and quantitative measures.
2. Researchers and institutions benefit from a balanced approach when evaluating redox biology publications.
3. Continuous assessment of metrics ensures alignment with evolving scientific communication practices.

Frequently Asked Questions

What is the impact factor of the journal Redox Biology?

As of 2023, the impact factor of Redox Biology is approximately 11.799, reflecting its high influence in the field of redox and oxidative stress research.

How does Redox Biology’s impact factor compare to other journals in the redox research field?

Redox Biology has one of the highest impact factors among journals focused on redox and oxidative stress, often ranking within the top journals in biochemistry and molecular biology related to redox processes.

Why is the impact factor important for a journal like Redox Biology?

The impact factor indicates the average number of citations to recent articles published in the journal, serving as a measure of the journal's influence and prestige in the scientific community.

Has the impact factor of Redox Biology increased in recent years?

Yes, the impact factor of Redox Biology has shown a steady increase over recent years, highlighting

growing recognition and citation of its published research.

What types of articles contribute most to Redox Biology’s impact factor?

Original research articles, comprehensive reviews, and cutting-edge studies on oxidative stress, redox signaling, and related molecular mechanisms significantly contribute to the journal’s high impact factor.

Can publishing in Redox Biology enhance a researcher’s visibility?

Yes, publishing in Redox Biology can significantly enhance a researcher’s visibility due to the journal’s high impact factor and wide readership in the fields of redox biology and oxidative stress.

How often is the impact factor of Redox Biology updated?

The impact factor of Redox Biology, like other journals, is updated annually by Clarivate Analytics in the Journal Citation Reports (JCR).

What factors influence the impact factor of Redox Biology?

Factors include the number of citations to articles published in the journal, the quality and relevance of published research, and the journal’s editorial standards and visibility in the scientific community.

Is Redox Biology considered a top journal for redox-related research?

Yes, due to its high impact factor and specialized focus, Redox Biology is considered a leading journal in the field of redox biology and oxidative stress research.

Where can I find the latest impact factor for Redox Biology?

The latest impact factor for Redox Biology can be found on the Clarivate Analytics Journal Citation Reports website, the journal’s official homepage, or reputable academic databases.

Additional Resources

1. *Redox Biology: Fundamentals and Clinical Perspectives*
This book provides a comprehensive overview of redox biology, covering the fundamental principles of redox reactions and their roles in cellular physiology and pathology. It bridges basic science with clinical applications, highlighting how oxidative stress contributes to diseases and aging. The text is enriched with up-to-date research findings and therapeutic approaches targeting redox imbalances.

2. *Oxidative Stress and Redox Signaling in Biology and Medicine*
Focusing on the dual role of reactive oxygen species as both damaging agents and signaling molecules, this volume explores the intricate redox signaling pathways in health and disease. It

includes contributions from leading researchers who discuss molecular mechanisms, biomarkers, and potential interventions. The book is ideal for those interested in translational redox biology and medicine.

3. *Redox Regulation in Cellular Signaling and Metabolism*
This work delves into the molecular mechanisms by which redox reactions regulate cellular signaling pathways and metabolic processes. It emphasizes the dynamic nature of redox states and their impact on cell function, including gene expression and enzyme activity. Detailed chapters discuss the interplay between redox biology and metabolic disorders.

4. *Advances in Redox Biology and Oxidative Stress Research*
This edited volume compiles recent advances in the field of redox biology, highlighting novel research on oxidative stress and its implications for human health. It covers a broad range of topics from basic biochemical processes to clinical studies, providing insights into therapeutic strategies. The book is valuable for researchers and clinicians alike.

5. *Redox Medicine: Integrating Redox Biology into Clinical Practice*
Aimed at healthcare professionals, this book integrates the principles of redox biology into the understanding and treatment of various diseases. It discusses diagnostic techniques, redox-based biomarkers, and innovative therapies that modulate oxidative stress. Case studies illustrate the clinical relevance of redox medicine.

6. *Reactive Oxygen Species in Cellular Signaling and Homeostasis*
This text explores the role of reactive oxygen species (ROS) beyond their traditional view as harmful agents, focusing on their function in signaling and maintaining cellular homeostasis. It covers mechanisms of ROS generation, detoxification, and their impact on physiological processes. The book also addresses pathological conditions resulting from ROS imbalance.

7. *Redox Proteomics and Its Application in Biomedical Research*
Dedicated to the emerging field of redox proteomics, this book highlights techniques used to study redox modifications of proteins and their biological significance. It discusses methodological advances and applications in identifying redox-sensitive proteins involved in disease processes. Researchers will find valuable protocols and case studies.

8. *Free Radicals in Biology and Medicine: From Mechanisms to Therapeutics*
This classic text offers an in-depth examination of free radicals, their generation, and their impact on biological systems. It covers the mechanisms of oxidative damage, antioxidant defenses, and the development of free radical-based therapies. The book is a foundational resource for students and professionals in redox biology.

9. *Redox Systems in Aging and Neurodegenerative Diseases*
Focusing on the role of redox imbalances in aging and neurodegeneration, this book reviews current research linking oxidative stress to diseases such as Alzheimer’s and Parkinson’s. It discusses molecular pathways, biomarkers, and potential redox-based interventions aimed at slowing disease progression. The interdisciplinary approach makes it relevant for neuroscientists and clinicians.

Impact Factor Redox Biology

impact factor redox biology: *Cartilage: From Biology to Biofabrication* Mohamadreza Baghaban Eslaminejad, Samaneh Hosseini, 2023-07-11 This book provides a comprehensive overview of cartilage structure, functions, and approaches for the regeneration of cartilage tissue. It reviews multiple signaling pathways that are involved in the growth and repair of cartilage tissue. The initial chapter of the book examines the etiology, diagnosis, and pathological features of various cartilage diseases. Subsequently, the book presents recent advances in biomaterial sciences, regenerative medicine, and fabrication technology for cartilage regeneration. It discusses hydrogels as a promising scaffold for cartilage tissue engineering, focusing on recapitulating microenvironments present during development or in adult tissue to induce the formation of cartilaginous constructs with biochemical and mechanical properties of native tissue. Lastly, it covers the applications of 3 D printing techniques for the fabrication of scaffolds for cartilage tissue regeneration for the production of biological implants capable of treating a range of conditions.

impact factor redox biology: *Drug Discovery Stories, Volume 2* Bin Yu, Peng Zhan, 2025-10-01 Drug Discovery Stories, Volume Two showcases the discovery journeys of recent blockbuster drugs approved between 2023 and 2024, along with promising drug candidates. This book delves into structural biology, biological functions of targets, hit compound identification, hit-to-lead optimization, binding modes, key biological and pharmacokinetic data, and clinical results. It also covers other candidate compounds against the same targets and includes additional content based on the authors' choices. The series addresses the rapid evolution in drug discovery and development, appealing to those in chemical biology, synthetic chemistry, and pharmacology.By highlighting interdisciplinary collaboration, the authors plan to release updated editions every few years to ensure the content reflects the latest achievements and breakthroughs in the field. - Analyzes the drug discovery stories of different blockbuster drugs - Covers key aspects related to the drug development of the drugs - Includes the newly approved drugs

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impact factor redox biology: Molecular Chaperones in Human Disorders , 2019-01-09 Molecular Chaperones in Human Disorders, Volume 114 in the Advances in Protein Chemistry and Structural Biology series, provides an overview of current developments in mechanisms underlying DNA repair and their involvement in maintaining chromatin repair, the balance between chromosomal repair pathways, tumorigenesis, immune signaling and infection-induced inflammation. Chapters in this new release cover Functional principles and regulation of molecular chaperones, Chaperones and retinal disorders, Protein misfolding and degradation in genetic diseases, Chaperone dysfunction in hereditary myopathic diseases, Diseases caused by functional disorder of molecular chaperones residing in the endoplasmic reticulum, and many other timely topics. - Describes advances in our understanding on DNA repair mechanisms and the involvement of their dysregulation in promoting diseases - Provides an ideal resource for a very wide audience of specialists, researchers and students - Contains timely chapters written by well-renown authorities in their field - Presents information that is well supported by a number of high quality illustrations, figures and tables

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environmental health attributable to cumulative and multiple sources of long-term exposure to environmental toxicants. The book describes the cellular, biological, immunological, endocrinologic, genetic, and epigenetic effects of long-term exposure. It examines how the combined exposure to nanomaterials, metals, pharmaceuticals, multifrequency radiation, dietary mycotoxins, and pesticides accelerates ecotoxicity in humans, animals, plants, and the larger environment. The book goes on to also offer insights into mixture risk assessments, protocols for evaluating the risks, and how this information can serve the regulatory agencies in setting safer exposure limits. The book is a go-to resource for scientists and professionals in the field tackling the current and emerging trends in modern toxicology and risk assessment. - Bridges basic research with clinical, epidemiological, regulatory, and translational research, conveying both an introductory understanding and the latest developments in the field - Evaluates real-life human health risk assessment for long-term exposures to xenobiotic mixtures and the role they play in contributing to chronic disease - Discusses advances in predictive (in silico) toxicology tools and the benefits of using omics technologies in toxicology research

impact factor redox biology: *Biology of Women's Heart Health* Lorrie Kirshenbaum, Inna Rabinovich-Nikitin, 2023-11-18 Cardiovascular disease (CVD) is the leading cause of morbidity and mortality in women and men worldwide and represents a major financial burden to world health care systems. Importantly, CVD has eclipsed cancer as the leading cause of death for women globally. Through advancements in research and clinical testing, the symptoms and risk factors for CVD have been well established for men, but not for women. Consequently, there is an immediate need for new innovative research that will bridge this gap and allow for improved early diagnosis and treatment of CVD in women. This book will serve as a guide for health care providers to better understand the physiological, biochemical, and genetic differences in heart disease in women with the goal of providing improved education, awareness and treatment of cardiovascular disease in women. The book will cover topics such as: sex dependent clinical outcomes of cardiovascular disease, cardiac protection by estrogen, cardiac health during menopause, cardiac rehabilitation programs, fitness and exercise, cardio-oncology, shift work and the CVD risk, and pregnancy related CVD.

impact factor redox biology: Aging, Peripheral Inflammation, and Neurodegeneration Caroline Haikal, Robert Weissert, 2024-12-26 Aging is a major risk factor for several neurodegenerative diseases, including Parkinson's and Alzheimer's disease. The immune response is often dysregulated in aging, leading to a predisposition towards a state of chronic inflammation. The precise processes which support this inflammatory state are still a subject of debate, however, cell- and tissue-specific transcriptional changes in several immune-related genes have been identified as potential drivers. In addition to genetic changes, losses in the bacterial diversity within the microbiome are also observed during aging. However, it is unclear whether this may be a cause or consequence of inflammation. Host-microbiome interactions are highly complex and are known to modulate the immune response in several ways. For instance, while bacteria and some bacterial byproducts such as short chain fatty acids can induce differentiation of regulatory T cells and stimulate secretion of anti-inflammatory cytokines, other byproducts can activate pathogen recognition receptors to induce inflammation. Bacteria can also regulate the transcription of human genes that regulate immune homeostasis and pathogen response. In turn, microRNAs produced by the gut epithelium can regulate transcription in bacteria.

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Denis Martinvalet, Michael Walch, 2022-02-25

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impact factor redox biology: *Stress Response and Immunity: Links and Trade Offs* Nadia Danilova, 2020-02-04 When environmental conditions deviate from the optimal range, stress ensues. Stress response is a set of reactions that allow the organism to adjust and survive adverse conditions. Stress can be physical, such as extreme temperature, radiation, injury, or psychological, caused by perceived danger or deprivation. Every living cell has biochemical mechanisms to cope with physical stress. These mechanisms show a degree of similarity among several types of living organisms. Stress Response and Immunity: Links and Trade Offs explores the functional and evolutionary connections between stress response and immunity. The book introduces the reader to the concept of stress and subsequently examines the connection between stress response and immunity at various evolutionary stages of living organisms - from bacteria to humans. The book also features chapters dedicated to the role of tumor suppressor genes and the immune system of the brain. The information presented in this reference demonstrates the profound effects of physical and psychological stress on human health. Readers with basic knowledge of molecular biology will learn about the interesting facets of stress responses and the evolutionary trade offs observed in different life forms.

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perspectives. The book is comprised of three main parts, with the first discussing the biochemical aspects of oxidative stress modulation. Other sections cover physiological and pathophysiological aspects on relevant conditions, including aging, neurological diseases, cerebral cavernous malformation, maternal and early-life malnutrition, Alzheimer's disease, liver transplant, and cancer. Final content is dedicated to pharmacological aspects and includes chapters on phytotherapy and flavonoids. This book is a strong reference for pharma researchers in academia and industry considering leveraging modulation of oxidative stress as a strategy for the development of new drugs. Biochemists and Nutritionists may also benefit of the foundational understanding of cellular redox processes laid out. - Provides the latest updates in the fast-developing field of REDOX biochemistry and pharmacology - Presents content that is clear and easy to read - Useful for researchers and instructors in many fields

impact factor redox biology: *A Master Regulator of Oxidative StressThe Transcription Factor Nrf2* Jose Antonio Morales-Gonzalez, Ángel Morales-González, Eduardo Osiris Madrigal-Santillan, 2016-12-21 Due to that at present, the majority of diseases are associated with alterations in oxidative stress and inflammatory processes, and in that Nrf-2 is a modulator of these processes; knowing how this transcriptional factor functions and is regulated opens a therapeutic window to diverse diseases. Therefore, the efforts of various investigation groups are centered on finding activators and/or inhibitors of Nrf-2 to prevent or control diverse diseases, for example, cancer, where it would be important to regulate Nrf-2 in order for it to activate apoptosis pathways in cancerogenous cells, or in neurodegenerative diseases where cell death is predominant, it would be important for Nrf-2 to activate antiapoptotic pathways.

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impact factor redox biology: Ischemic Stroke as Systemic Disorder Involving Both Nervous and Immune Systems Qingkun Liu, Yan Wang, Jui-Hung Jimmy Yen, 2023-06-01

impact factor redox biology: *Reactive Oxygen Species and Male Fertility* Cristian O'Flaherty, 2020-12-02 Reactive oxygen species (ROS) are inevitable by-products of aerobic cells. A delicate balance between ROS production and antioxidant defences is essential to assure cell function. This requirement is also true for the spermatozoon, the male gamete, with the unique goal of carrying and delivering the paternal genome into the oocyte. Oxidative stress promotes damage in lipids, proteins and DNA of spermatozoa, and this oxidative damage is associated with infertility. The ROS-dependent damage could occur at different stages of the production and maturation of the sperm. On the other hand, low and controlled levels of ROS are necessary to trigger and regulate sperm function. When ejaculated, spermatozoa are incapable of fertilizing the egg. They must reside in the oviduct of the female genital tract to undergo a yet to be understood the biochemical process called capacitation. Once capacitated, the spermatozoon undergoes the exocytotic event called acrosome reaction and fertilize the oocyte. ROS regulate the different molecular mechanisms such as sperm motility, capacitation and acrosome reaction to assure fertilization. This Special Issue includes original research and reviews of literature concerning the role of reactive oxygen species in male reproduction, particularly the role of antioxidants in the regulation of male fertility as well as basic and clinical studies using antioxidant-based strategies for the treatment of male infertility.

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