# Bmc Plant Biology Impact Factor

## BMC Plant Biology Impact Factor: A Deep Dive into Journal Metrics and Their Significance

Introduction:

Are you a plant biologist struggling to understand the nuances of journal selection? Choosing where to publish your groundbreaking research can be a daunting task, especially when navigating the complex world of impact factors. This comprehensive guide delves into the BMC Plant Biology impact factor, explaining what it means, how it's calculated, its limitations, and its overall significance in academic publishing. We'll equip you with the knowledge to make informed decisions about where to share your vital contributions to the field of plant biology. This post will cover the intricacies of the impact factor, its implications for your career, and how to interpret this metric within the broader context of journal prestige and research quality.

What is the BMC Plant Biology Impact Factor?

The impact factor (IF) of a scientific journal is a measure reflecting the average number of citations received per article published in that journal during a specific period (typically the previous two years). For BMC Plant Biology, this number represents the average number of times articles published in the journal during the past two years were cited in other indexed publications within the same two-year period. A higher impact factor generally suggests a journal's articles are more frequently cited, potentially indicating higher influence within the field. However, it’s crucial to understand that the impact factor is just one metric and shouldn't be the sole determinant when selecting a journal for publication.

Understanding the Calculation of the BMC Plant Biology Impact Factor:

The impact factor calculation is primarily based on the data collected by Clarivate Analytics' Web of Science, a comprehensive citation indexing service. The process involves:

1. Identifying Citable Items: The database identifies all articles, reviews, and other citable items published in BMC Plant Biology during a specific two-year period (e.g., 2021-2022).
2. Counting Citations: The system then tallies the number of times these items were cited in other journals indexed within the Web of Science during the subsequent two-year period (e.g., 2023-2024).
3. Calculating the Average: The total number of citations is divided by the number of citable items published in the initial two-year period. This yields the journal's impact factor for that year.

It's essential to note that the impact factor is a lagging indicator. It reflects past performance, not a guarantee of future success. A journal's impact factor can fluctuate from year to year based on various factors, including the number and quality of articles published and broader trends within the field.

Limitations of Using Impact Factor as the Sole Metric:

While the impact factor provides a valuable benchmark, relying solely on it for journal selection is short-sighted. Several limitations must be considered:

Journal Scope and Specialization: A high impact factor in a broadly scoped journal may not be as impressive as a slightly lower impact factor in a highly specialized journal relevant to your specific research area.
Citation Bias: Certain fields inherently receive more citations than others. Direct comparisons between journals across different disciplines can be misleading.
Publication Bias: Journals might attract submissions from well-established researchers, leading to an artificially inflated impact factor.
Predatory Journals: Some journals inflate their impact factor through manipulative practices. Be wary of journals with exceptionally high or rapidly increasing impact factors without a strong reputation.
Time Lag: As mentioned, the impact factor is a retrospective metric, offering limited insight into a journal's current performance or future prospects.

Beyond the Impact Factor: Considering Other Important Metrics:

When choosing a journal, consider factors beyond the impact factor, such as:

Journal Reputation and Prestige: Consider the journal's history, editorial board, and overall standing within the plant biology community.
Audience Reach: Assess the journal's readership and its potential to disseminate your research effectively.
Open Access Policies: Evaluate whether the journal offers open access options, ensuring broader accessibility to your work.
Peer Review Process: A rigorous and transparent peer-review process is crucial for maintaining research quality.
Publication Timelines: Consider the journal's speed of publication and its potential impact on your career progression.

The Significance of the BMC Plant Biology Impact Factor for Researchers:

The BMC Plant Biology impact factor plays a significant role in various aspects of a researcher's career:

Funding Applications: Many funding agencies consider the impact factor of the journals where researchers have published their work. A higher impact factor can enhance the competitiveness of grant proposals.
Career Advancement: Impact factors are often used to assess research productivity and influence in promotion and tenure decisions.
Collaboration Opportunities: Publishing in high-impact journals can increase visibility and attract potential collaborators.

However, overemphasis on impact factors can have detrimental effects, potentially encouraging researchers to prioritize publication in high-impact journals over research quality and significance.

Book Outline: "Navigating the World of Plant Biology Publication"

Name: Navigating the World of Plant Biology Publication

Outline:

Introduction: Defining the landscape of plant biology journals and the importance of strategic publication choices.
Chapter 1: Understanding Journal Metrics: A detailed explanation of impact factors, citation counts, and other relevant metrics. Includes a discussion of the limitations of each metric.
Chapter 2: Selecting the Right Journal: A practical guide to journal selection, considering factors beyond the impact factor. Covers journal scope, audience, open access, and peer review processes.
Chapter 3: The Publication Process: A step-by-step guide through the submission, review, and publication process. Includes tips for effective manuscript preparation.
Chapter 4: Maximizing the Impact of Your Research: Strategies for increasing citation rates and ensuring your work reaches the widest possible audience.
Conclusion: A summary of key takeaways and advice for navigating the complexities of academic publishing in plant biology.

Chapter 1: Understanding Journal Metrics: A Detailed Exploration

This chapter will provide a comprehensive understanding of various journal metrics, focusing on the calculation and interpretation of the impact factor. It will delve into the intricacies of citation analysis, explaining different methods and their limitations. We will also discuss alternative metrics, such as altmetrics and article-level metrics, providing a balanced perspective on assessing journal quality and research impact. The limitations of relying solely on a single metric, particularly the impact factor, will be extensively discussed, advocating for a holistic approach to journal evaluation.

Chapter 2: Selecting the Right Journal: A Strategic Approach

This chapter will act as a practical guide, providing a step-by-step process for researchers to select the most appropriate journal for their work. This will involve an in-depth analysis of various journal characteristics, including scope, audience, reputation, open-access policies, and peer-review processes. It will offer tools and resources for identifying suitable journals and provide examples of successful journal selection strategies. Readers will learn how to match their research findings with the most receptive audience, maximizing the potential impact of their publications.

Chapter 3: The Publication Process: A Smooth Journey

This chapter will take the reader through the entire publication process, from manuscript preparation to final publication. We will cover the crucial aspects of writing a compelling manuscript, following specific journal guidelines, and handling the peer-review process effectively. We'll discuss strategies for responding to reviewer comments, addressing potential criticisms constructively, and navigating potential revisions. This chapter will also highlight the importance of adhering to ethical publishing practices and avoiding predatory journals.

Chapter 4: Maximizing the Impact of Your Research: Strategies for Success

This chapter will provide actionable strategies to improve the visibility and impact of published research. This includes optimizing the manuscript for search engines, engaging in effective

dissemination strategies, and leveraging social media and other platforms to reach a broader audience. It will emphasize the importance of open access and the use of altmetrics to track and measure research impact beyond traditional citation analysis. We'll examine effective strategies for maximizing citations and establishing a strong online research presence.

Conclusion: A Balanced Perspective

This conclusion will summarize the key takeaways from the book, reiterating the importance of a holistic approach to journal selection and research impact. It will emphasize the need to balance the use of traditional metrics like the impact factor with a consideration of broader factors, such as journal reputation, audience reach, and the overall contribution of the research. Ultimately, the conclusion will encourage researchers to prioritize the quality and significance of their work over the pursuit of high impact factors alone.

FAQs:

1. What is the current BMC Plant Biology impact factor? The current impact factor varies and needs to be checked on the Journal Citation Reports (JCR) website or the journal's official website.
2. Is a high impact factor always an indicator of good research? No, a high impact factor doesn't automatically guarantee high-quality research. It's just one metric among many.
3. How often is the BMC Plant Biology impact factor updated? The impact factor is typically updated annually by Clarivate Analytics.
4. What are some alternative metrics to impact factor? Altmetrics (e.g., social media mentions, downloads) and article-level metrics are alternatives.
5. Can I use the impact factor to compare journals across different fields? Direct comparison across different fields can be misleading due to citation biases.
6. How does the impact factor affect funding applications? Many funding agencies consider impact factor as one factor among several in evaluating grant proposals.
7. What are some strategies for increasing the citations of my published articles? Effective dissemination, open access, and engaging with the research community are important strategies.
8. Are there any ethical concerns related to impact factors? Yes, some journals engage in questionable practices to inflate their impact factors.
9. Where can I find the BMC Plant Biology impact factor? The official journal website and Journal Citation Reports (JCR) are reliable sources.

Related Articles:

1. Choosing the Right Journal for Your Plant Biology Research: A guide to selecting a journal based on factors beyond the impact factor.
2. Understanding Journal Metrics in Plant Science: A deep dive into various journal metrics and their limitations.
3. The Impact of Open Access on Citation Rates in Plant Biology: An analysis of the relationship between open access and citation counts.
4. Maximizing the Impact of Your Plant Biology Publications: Strategies for effective dissemination and increasing citations.
5. Avoiding Predatory Journals in Plant Biology: A guide to identifying and avoiding predatory publishing practices.

6. The Role of Impact Factor in Academic Careers: An analysis of how impact factors influence career progression.
7. Altmetrics in Plant Biology: An Emerging Trend: A discussion of alternative metrics for measuring research impact.
8. Peer Review in Plant Biology Journals: Best Practices: A guide to navigating the peer-review process.
9. Ethical Considerations in Plant Biology Publication: A discussion of ethical issues related to authorship, plagiarism, and data integrity.

**bmc plant biology impact factor: Programmed Cell Death in Plants** John Gray, 2004 The recognition of cell death as an active process has changed the way in which biologists view living things. Geneticists re-evaluate long known mutants, research strategies are redesigned, and new model systems are sought. This volume reviews our new understanding of programmed cell death as it applies to plants. The book draws comparisons with programmed cell death in animals and unicellular organisms. The book is directed at researchers and professionals in plant cell biology, biochemistry, physiology, developmental biology and genetics.

**bmc plant biology impact factor: Horticultural Biotechnology** Alan B. Bennett, Sharman D. O'Neill, 1990-05-29 It is now understood that biotechnology may hold the key to feeding the world through genetically engineered improvement of major agricultural crops. This work provides benchmarks of the current state of scientific development of horticultural biotechnology and also the increasing pace at which new applications from this field are being put to the test for commercial potential. The success of molecular genetic manipulation and tissue culture work in certain model systems such as the tomato and some ornamental flowers establishes a useful starting point for discussing the fundamental and applied aspects of plant biotechnology. Among the case studies presented are: gene transfer and isolation; genome structure; flower development; biotic stress; abiotic stress; and commercial applications.

**bmc plant biology impact factor: Biological Invasions** Wolfgang Nentwig, 2007-02-13 This new volume on Biological Invasions deals with both plants and animals, differing from previous books by extending from the level of individual species to an ecosystem and global level. Topics of highest societal relevance, such as the impact of genetically modified organisms, are interlinked with more conventional ecological aspects, including biodiversity. The combination of these approaches is new and makes compelling reading for researchers and environmentalists.

**bmc plant biology impact factor:** Plant Cell, Tissue and Organ Culture Oluf Gamborg, Gregory C. Phillips, 2013-06-29 This manual provides all relevant protocols for basic and applied plant cell and molecular technologies, such as histology, electron microscopy, cytology, virus diagnosis, gene transfer and PCR. Also included are chapters on laboratory facilities, operation and management as well as a glossary and all the information needed to set up and carry out any of the procedures without having to use other resource books. It is especially designed for professionals and advanced students who wish to acquire practical skills and first-hand experience in plant biotechnology.

**bmc plant biology impact factor: Sensory Biology of Plants** Sudhir Sopory, 2019-11-09 Plants provide a source of survival for all life on this planet. They are able to capture solar energy and convert it into food, feed, wood and medicines. Though sessile in nature, over many millions of years, plants have diversified and evolved from lower to higher life forms, spreading from sea level to mountains, and adapting to different ecozones. They have learnt to cope with challenging environmental conditions and various abiotic and biotic factors. Plants have also developed systems for monitoring the changing environment and efficiently utilizing resources for growth, flowering and reproduction, as well as mechanisms to counter the impact of pests and diseases and to communicate with other biological systems, like microbes and insects. This book discusses the “awareness” of plants and their ability to gather information through the perception of

environmental cues, such as light, gravity, water, nutrients, touch and sound, and stresses. It also explores plants' biochemical and molecular "computing" of the information to adjust their physiology and development to the advantage of the species. Further, it examines how plants communicate between their different organs and with other organisms, as well as the concepts of plant cognition, experience and memory, from both scientific and philosophical perspectives. Lastly, it addresses the phenomenon of death in plants. The epilogue presents an artist's view of the beauty of the natural world, especially plant "architecture". The book provides historical perspectives, comparisons with animal systems where needed, and general biochemical and molecular concepts and themes. Each chapter is selfcontained, but also includes cross talk with other chapters to offer an integrated view of plant life and allow readers to appreciate and admire the functioning of plant life from within and without. The book is a tribute by the Editor to his students, colleagues and co-workers and to those in whose labs he has worked.

**bmc plant biology impact factor:** *Molecular Biology of Plants* Irwin Rubenstein, Ronald L. Phillips, Charles E. Green, 2013-10-22 Molecular Biology of Plants presents the formal scientific presentations delivered on the symposium on plant molecular biology, held at the University of Minnesota in 1976. The topics in this book are organized around the central dogma of molecular biology. Section I describes the organization and replication of DNA in plant chromosomes, including chloroplast genomes; Section II discusses molecular aspects of transcription and translation, ribosomal RNA gene systems and hormonal control of protein synthesis. Section III examines plant viruses and bacterial agents, in particular the crown gall system, viroids, and the replication of plant RNA viruses. Each of these specific topics contributes to an integrated knowledge of plant molecular biology. The book will be of interest to geneticists, cell biologists, plant breeders, plant physiologists, plant pathologists, and biochemists.

**bmc plant biology impact factor: Achievements of the National Plant Genome Initiative and New Horizons in Plant Biology** National Research Council, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Board on Life Sciences, Committee on the National Plant Genome Initiative: Achievements and Future Directions, 2008-03-20 Life on Earth would be impossible without plants. Humans rely on plants for most clothing, furniture, food, as well as for many pharmaceuticals and other products. Plant genome sciences are essential to understanding how plants function and how to develop desirable plant characteristics. For example, plant genomic science can contribute to the development of plants that are drought-resistant, those that require less fertilizer, and those that are optimized for conversion to fuels such as ethanol and biodiesel. The National Plant Genome Initiative (NPGI) is a unique, cross-agency funding enterprise that has been funding and coordinating plant genome research successfully for nine years. Research breakthroughs from NPGI and the National Science Foundation (NSF) Arabidopsis 2010 Project, such as how the plant immune system controls pathogen defense, demonstrate that the plant genome science community is vibrant and capable of driving technological advancement. This book from the National Research Council concludes that these programs should continue so that applied programs on agriculture, bioenergy, and others will always be built on a strong foundation of fundamental plant biology research.

**bmc plant biology impact factor: Light Sensing in Plants** M. Wada, K. Shimazaki, M. Iino, 2005-04-01 Plants utilize light not only for photosynthesis but also as environmental signals. They are capable of perceiving wavelength, intensity, direction, duration, and other attributes of light to perform appropriate physiological and developmental changes. This volume presents overviews of and the latest findings in many of the interconnected aspects of plant photomorphogenesis, including photoreceptors (phytochromes, cryptochromes, and phototropins), signal transduction, photoperiodism, and circadian rhythms, in 42 chapters. Also included, is a prologue by Prof. Masaki Furuya that gives an overview of the historical background. With contributions from preeminent researchers in specific subjects from around the world, this book will be a valuable source for a range of scientists from undergraduate to professional levels.

**bmc plant biology impact factor: Sustainable Agriculture Reviews 53** Mohammad Faizan,

Shamsul Hayat, Fangyuan Yu, 2022-01-28 This book presents recent developments involving the role of nanoparticles on stress tolerance. In particular, nanoparticles have the potential to provide effective solutions to the multiple agriculture-related problems. Nanoparticles present enhanced reactivity and thus better effectiveness when compared to their bulkier counterparts due to their higher surface-to-volume ratio.

**bmc plant biology impact factor:** Biology, Chemistry and Applications of Apocarotenoids Siva Ramamoorthy, Renata Rivera Madrid, C George Priya Doss, 2020-11-19 Carotenoids are a large class of isoprenoid pigments produced by plants and certain microbes. More than 700 naturally occurring carotenoids have been identified. Apocarotenoids are tailored from carotenoids by oxidative enzymes. Apocarotenoids act as visual or volatile signals to attract pollinating and seed dispersal agents. They are also the key players in allelopathic interactions and plant defense. Biology, Chemistry and Applications of Apocarotenoids provides detailed account of the fundamental chemistry of apocarotenoids and the basic methods used in carotenoid research, and critical discussions of the biochemistry, functions, and applications of these important compounds. Topics covered in the proposed book include various aspects of the roles of apocarotenoids in colour and colouration, photosynthesis and other photofunctions and protection. The formation and roles of carotenoid metabolites and breakdown products as perfume/aroma compounds are also be outlined. Features: Provides an organized overview of apocarotenoids and their chemistry and biological functions Focuses on recent discoveries on apocarotenoids, their nature and functions. Details potential uses of apocarotenoids in agriculture, pharmacy, food industry, and apocarotenoid production at industrial level This book has been written by leading experts in apocarotenoid research and gives a comprehensive overview on the diversity of apocarotenoid compounds and would serve as a reference book for researches in Plant Physiology, Molecular Biology, Biochemistry, Biophysics and Medicine.

**bmc plant biology impact factor:** PlantOmics: The Omics of Plant Science Debmalya Barh, Muhammad Sarwar Khan, Eric Davies, 2015-03-18 PlantOmics: The Omics of Plant Science provides a comprehensive account of the latest trends and developments of omics technologies or approaches and their applications in plant science. Thirty chapters written by 90 experts from 15 countries are included in this state-of-the-art book. Each chapter describes one topic/omics such as: omics in model plants, spectroscopy for plants, next generation sequencing, functional genomics, cyto-metagenomics, epigenomics, miRNAomics, proteomics, metabolomics, glycomics, lipidomics, secretomics, phenomics, cytomics, physiomics, signalomics, thiolomics, organelle omics, micro morphomics, microbiomics, cryobionomics, nanotechnology, pharmacogenomics, and computational systems biology for plants. It provides up to date information, technologies, and their applications that can be adopted and applied easily for deeper understanding plant biology and therefore will be helpful in developing the strategy for generating cost-effective superior plants for various purposes. In the last chapter, the editors have proposed several new areas in plant omics that may be explored in order to develop an integrated meta-omics strategy to ensure the world and earth’s health and related issues. This book will be a valuable resource to students and researchers in the field of cutting-edge plant omics.

**bmc plant biology impact factor:** Soybean Aleksandra Sudarić, 2011-04-11 The book Soybean: Molecular Aspects of Breeding focuses on recent progress in our understanding of the genetics and molecular biology of soybean and provides a broad review of the subject, from genome diversity to transformation and integration of desired genes using current technologies. This book is divided into four parts (Molecular Biology and Biotechnology, Breeding for Abiotic Stress, Breeding for Biotic Stress, Recent Technology) and contains 22 chapters.

**bmc plant biology impact factor:** Plant Transcription Factors Vikas Srivastava, Sonal Mishra, Shakti Mehrotra, Santosh Kumar Upadhyay, 2022-11-09 Plant Transcription Factors: Contribution in Development, Metabolism, and Environmental Stress provides comprehensive coverage of plant TFs and their various functions, evaluating their crucial role in growth and development, signaling, stress management and other key plant processes. Sections cover the significance of plant TFs in

functional genomics, the influence of phyto-hormones on the modulation of plant TFs, plant development and metabolism, including shoot development, flowering development and alkaloid biosynthesis. The book's final section reviews the role of TFs in various plant stresses, including temperature, water and heavy metal stress. Written by leading experts around the globe, this book is an essential read to researchers interested in plant signaling and plant genomics. - Presents the latest advances in plant transcription factors and their functions - Discusses the influence of phyto-hormones on the modulation of plant transcription factors - Highlights the relationship between plant TFs and plant development

**bmc plant biology impact factor: Expanding Perspectives on Open Science: Communities, Cultures and Diversity in Concepts and Practices** L. Chan, F. Loizides, 2017-06-20 Twenty-one years ago, the term ‘electronic publishing’ promised all manner of potential that the Web and network technologies could bring to scholarly communication, scientific research and technical innovation. Over the last two decades, tremendous developments have indeed taken place across all of these domains. One of the most important of these has been Open Science; perhaps the most widely discussed topic in research communications today. This book presents the proceedings of Elpub 2017, the 21st edition of the International Conference on Electronic Publishing, held in Limassol, Cyprus, in June 2017. Continuing the tradition of bringing together academics, publishers, lecturers, librarians, developers, entrepreneurs, users and all other stakeholders interested in the issues surrounding electronic publishing, this edition of the conference focuses on Open Science, and the 27 research and practitioner papers and 1 poster included here reflect the results and ideas of researchers and practitioners with diverse backgrounds from all around the world with regard to this important subject. Intended to generate discussion and debate on the potential and limitations of openness, the book addresses the current challenges and opportunities in the ecosystem of Open Science, and explores how to move forward in developing an inclusive system that will work for a much broader range of participants. It will be of interest to all those concerned with electronic publishing, and Open Science in particular.

**bmc plant biology impact factor:** Publishing in High Impact Factor Journals Moez Ltifi, 2022-10-21 This book proposes a reference framework and guidelines to help researchers produce a manuscript of high scientific quality in order to meet the requirements of high-impact journals and to succeed in their publication endeavours. It offers a series of precise guidelines, tips and tricks with a detailed description of the different steps to be taken to achieve a solid publication with a high impact factor. As such, the book will be of interest to students and researchers alike.

**bmc plant biology impact factor: Plant Abiotic Stress Physiology** Khalid Rehman Hakeem, Tariq Aftab, 2022-02-17 This two-volume set highlights the various innovative and emerging techniques and molecular applications that are currently being used in plant abiotic stress physiology. Volume 1: Responses and Adaptations focuses on the responses and adaptations of plants to stress factors at the cellular and molecular levels and offers a variety of advanced management strategies and technologies. Volume 2: Molecular Advancements introduces a range of state-of-the-art molecular advances for the mitigation of abiotic stress in plants. With contributions from specialists in the field, Volume 1 first discusses the physiology and defense mechanisms of plants and the various kinds of stress, such as from challenging environments, climate change, and nutritional deficiencies. It goes on to discuss trailblazing management techniques that include genetics approaches for improving abiotic stress tolerance in crop plants along with CRISPR/CAS-mediated genome editing technologies. Volume 2 discusses how plants have developed diverse physiological and molecular adjustments to safeguard themselves under challenging conditions and how emerging new technologies can utilize these plant adaptations to enhance plant resistance. These include using plant-environment interactions to develop crop species that are resilient to climate change, applying genomics and phenomics approaches from the study of abiotic stress tolerance and more. Agriculture today faces countless challenges to meet the rising need for sustainable food supplies and guarantees of high-quality nourishment for a quickly increasing population. To ensure sufficient food production, it is necessary to address the difficult

environmental circumstances that are causing cellular oxidative stress in plants due to abiotic factors, which play a defining role in shaping yield of crop plants. These two volumes help to meet these challenges by providing a rich source of information on plant abiotic stress physiology and effective management techniques.

**bmc plant biology impact factor: Mitochondrial Genome Evolution** Laurence Marechal-Drouard, 2012-10-03 Advances in Botanical Research publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences. Features a wide range of reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology and ecology. This thematic volume features reviews on Mitochondrial genome evolution. Publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences Features a wide range of reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology and ecology This thematic volume features reviews on mitochondrial genome evolution

**bmc plant biology impact factor: Plant Trichomes** J. A. Callow, David L. Hallahan, J. C. Gray, 2000-03-22 This volume is a collection of review articles by leading scientists involved in various aspects of work involving plant hairs, or trichomes. The scope of the volume is broad, representing the fact that there is interest in these structures for researchers in diverse fields including plant anatomy, taxonomy, cell and molecular biology, biochemistry, and ecology.

**bmc plant biology impact factor:** *Biotechnological Approaches to Enhance Plant Secondary Metabolites* Mohd. Shahnawaz, 2021-11-05 Thousands of secondary metabolites are produced by plants to withstand unfavourable environmental conditions and are important molecules for nutraceutical, agro, cosmetic and pharmaceutical industries, etc. Harvesting of plants for the extraction of these important metabolites can threaten the plant germplasm, and various medicinally important plants are at the verge of extinction. Based on need, various methods and strategies were developed and followed by researchers from time to time to save the plant germplasm and produce important secondary metabolites efficiently to meet their growing demands. Biotechnological Approaches to Enhance Plant Secondary Metabolites: Recent Trends and Future Prospects provides a comprehensive introduction and review of state-of-the-art biotechnological tools in this field of research at global level. The methodologies are highlighted by real data examples in both in vitro and in vivo level studies. The book: • Highlights and provides overviews of the synthesis, classification, biological function and medicinal applications of the recent advancements for the enhanced production of novel secondary metabolites in plants • Provides an overview of the role of induced mutation, salinity stress and brassinosteroids impact to increase the secondary metabolic contents in plants and suggests an increase in enzymatic activity in plants could be due to various point mutations, which in turn could play a role at transcriptome levels • Discusses the significant role of endophytes to enhance the contents of plant secondary metabolites • Alternatively, suggests the urgent need to set up the standard operating procedures using hydroponics system of cultivation for significant enhancement of secondary metabolite contents • Enlists various in vitro techniques to enhance plant secondary metabolites contents using plant tissue culture approaches • Provides a systematic overview of state-of-the-art biotechnological tools CRISPER Cas9 and RNAi to enhance the plant secondary metabolite contents • Recommends CRISPER Cas9 technology over RNAi, ZFNs and TALENs because of its relatively simple and high precision method with an easily programmable tool This serves as a reference book for the researchers working in the field of plant secondary metabolites and pharmaceutical industries at global level.

**bmc plant biology impact factor:** *Plant Stress Biology* Bhoopander Giri, Mahaveer Prasad Sharma, 2021-02-05 Plants growing in the natural environment battle with a variety of biotic (pathogens infection) and abiotic (salinity, drought, heat and cold stresses etc.) stresses. These physiological stresses drastically affect plant growth and productivity under field conditions. These challenges are likely to grow as a consequences of global climate change and pose a threat to the food security. Therefore, acquaintance with underlying signalling pathways, physiological, biochemical and molecular mechanisms in plants and the role of beneficial soil microorganisms in

plant's stress tolerance are pivotal for sustainable crop production. This volume written by the experts in the stress physiology and covers latest research on plant's tolerance to abiotic and biotic stresses. It elaborates on the potential of plant-microbe interactions to avoid the damage caused by these stresses. With comprehensive information on theoretical, technical and experimental aspects of plant stress biology, this extensive volume is a valuable resource for researchers, academician and students in the broad field of plant stress biology, physiology, microbiology, environmental and agricultural science.

**bmc plant biology impact factor: Phytohormones in Abiotic Stress** Dhandapani Raju, R Ambika Rajendran, Ayyagari Ramlal, Virendra Pal Singh, 2024-06-14 Plants are continuously exposed to different environmental stresses that negatively impact their physiology and morphology, resulting in production reduction. As a result of constant pressure, plants evolve different mechanisms for sustenance and survival. Hormones play a major role in defences against the stresses and stimulate regulatory mechanisms. One of the ways through which they mitigate stress is via the production of hormones like auxins, ethylene, jasmonic acid, etc. The phytohormones help in signaling and enhance the chances of their survival. Plant hormones play many vital roles from integrating developmental events, physiological and biochemical processes to mediating both abiotic and biotic stresses. This book aims to highlight these issues and provide scope for the development of tolerance in crops against abiotic stresses to maximize yield for the growing population. There is an urgent need for the development of strategies, methods and tools for the broad-spectrum tolerance in plants supporting sustainable crop production under hostile environmental conditions. The salient features are as follows: • It includes both traditional and non-traditional phytohormones and focuses on the latest progress emphasizing the roles of different hormones under abiotic stresses. • It provides a scope of the best plausible and suitable options for overcoming these stresses and puts forward the methods for crop improvement. • It is an amalgamation of the biosynthesis of phytohormones and also provides molecular intricacies and signalling mechanisms in different abiotic stresses. • This book serves as a reference book for scientific investigators from recent graduates, academicians and researchers working on phytohormones and abiotic stresses.

**bmc plant biology impact factor:** Plant Abiotic Stress Physiology Tariq Aftab, Khalid Rehman Hakeem, 2022-02-17 This two-volume set highlights the various innovative and emerging techniques and molecular applications that are currently being used in plant abiotic stress physiology. Volume 1: Responses and Adaptations focuses on the responses and adaptations of plants to stress factors at the cellular and molecular levels and offers a variety of advanced management strategies and technologies. Volume 2: Molecular Advancements introduces a range of state-of-the-art molecular advances for the mitigation of abiotic stress in plants. With contributions from specialists in the field, Volume 1 first discusses the physiology and defense mechanisms of plants and the various kinds of stress, such as from challenging environments, climate change, and nutritional deficiencies. It goes on to discuss trailblazing management techniques that include genetics approaches for improving abiotic stress tolerance in crop plants along with CRISPR/CAS-mediated genome editing technologies. Volume 2 discusses how plants have developed diverse physiological and molecular adjustments to safeguard themselves under challenging conditions and how emerging new technologies can utilize these plant adaptations to enhance plant resistance. These include using plant-environment interactions to develop crop species that are resilient to climate change, applying genomics and phenomics approaches from the study of abiotic stress tolerance and more. Agriculture today faces countless challenges to meet the rising need for sustainable food supplies and guarantees of high-quality nourishment for a quickly increasing population. To ensure sufficient food production, it is necessary to address the difficult environmental circumstances that are causing cellular oxidative stress in plants due to abiotic factors, which play a defining role in shaping yield of crop plants. These two volumes help to meet these challenges by providing a rich source of information on plant abiotic stress physiology and effective management techniques.

**bmc plant biology impact factor:** *Current Omics Advancement in Plant Abiotic Stress Biology* Deepesh Bhatt, Manoj Nath, Saurabh Badoni, Rohit Joshi, 2024-05-07 Applied Biotechnology

Strategies to Combat Plant Abiotic Stress investigates the causal molecular factors underlying the respective mechanisms orchestrated by plants to help alleviate abiotic stress in which Although knowledge of abiotic stresses in crop plants and high throughput tools and biotechnologies is avaiable, in this book, a systematic effort has been made for integrating omics interventions across major sorts of abiotic stresses with special emphasis to major food crops infused with detailed mechanistic understanding, which would furthermore help contribute in dissecting the interdisciplinary areas of omics-driven plant abiotic stress biology in a much better manner. In 32 chapters Applied Biotechnology Strategies to Combat Plant Abiotic Stress focuses on the integration of multi-OMICS biotechnologies in deciphering molecular intricacies of plant abiotic stress namely drought, salt, cold, heat, heavy metals, in major C3 and C4 food crops. Together with this, the book provides updated knowledge of common and unique set of molecular intricacies playing a vital role in coping up severe abiotic stresses in plants deploying multi-OMICS approaches This book is a valuable resource for early researchers, senior academicians, and scientists in the field of biotechnology, biochemistry, molecular biology, researchers in agriculture and, crops for human foods, and all those who wish to broaden their knowledge in the allied field. - Describes biotechnological strategies to combat plant abiotic stress - Covers the latest evidence based multipronged approaches in understanding omics perspective of stress tolerance - Focuses on the integration of multi-OMICS technologies in deciphering molecular intricacies of plant abiotic stress

**bmc plant biology impact factor: Postharvest Ripening Physiology of Crops** Sunil Pareek, 2016-02-22 Postharvest Ripening Physiology of Crops is a comprehensive interdisciplinary reference source for the various aspects of fruit ripening and postharvest behavior. It focuses on the postharvest physiology, biochemistry, and molecular biology of ripening and provides an overview of fruits and vegetables, including chapters on the postharvest quality

**bmc plant biology impact factor:** *Droplets of Life* Vladimir N Uversky, 2022-11-09 Droplets of Life: Membrane-Less Organelles, Biomolecular Condensates, and Biological Liquid–Liquid Phase Separation provides foundational information on the biophysics, biogenesis, structure, functions, and roles of membrane-less organelles. The study of liquid–liquid phase separation has attracted a lot of attention from disciplines such as cell biology, biophysics, biochemistry, and others trying to understand how, why, and what roles these condensates play in homeostasis and disease states in living organisms. This book's editor recruited a group of international experts to provide a current and authoritative overview of all aspects associated with this exciting area. Sections introduce membrane-less organelles (MLOs) and biomolecular condensates; MLOs in different sizes, shapes, and composition; and the formation of MLOs due to phase separation and how it can tune reactions, organize the intracellular environment, and provide a role in cellular fitness. . - Presents the first book to establish the foundations of this exciting research area - Combines biophysics, structural and cell biology, and biochemistry perspectives into a single volume - Edited and authored by world-leading scientists - Covers basic physical and biological principles and health and disease implications

**bmc plant biology impact factor: The Nature of Plant Communities** J. Bastow Wilson, Andrew D. Q. Agnew, Stephen H. Roxburgh, 2019-03-21 Provides a comprehensive review of the role of species interactions in the process of plant community assembly.

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fruit trees and forest trees

**bmc plant biology impact factor:** Molecular Approaches in Plant Biology and Environmental Challenges Sudhir P. Singh, Santosh Kumar Upadhyay, Ashutosh Pandey, Sunil Kumar, 2019-10-01 This book discusses molecular approaches in plant as response to environmental factors, such as variations in temperature, water availability, salinity, and metal stress. The book also covers the impact of increasing global population, urbanization, and industrialization on these molecular behaviors. It covers the natural tolerance mechanism which plants adopt to cope with adverse environments, as well as the novel molecular strategies for engineering the plants in human interest. This book will be of interest to researchers working on the impact of the changing environment on plant ecology, issues of crop yield, and nutrient quantity and quality in agricultural crops. The book will be of interest to researchers as well as policy makers in the environmental and agricultural domains.

**bmc plant biology impact factor:** Nanotechnology for Abiotic Stress Tolerance and Management in Crop Plants Ramesh Namdeo Pudake, Ravi Mani Tripathi, Sarvajeet Singh Gill, 2024-03-13 Nanotechnology for Abiotic Stress Tolerance and Management in Crop Plants reviews the most recent literature on the role of nanomaterials in achieving sustainability in crop production in stressful environments. This book explores the adverse conditions caused by abiotic stress to crop plants, and the methods by which these conditions can be potentially overcome through developments in nanoscience and nanotechnology. Abiotic stresses such as drought, salinity, temperature stress, excessive water, heavy metal stress, UV stress etc. are major factors which may adversely affect the growth, development, and yield of crops. While recent research for ways of overcoming the physiological and biochemical changes brought on by these stresses has focused on genetic engineering of plants, additional research continues into alternative strategies to develop stress tolerant crops, including the use of nanoscience and nanotechnology. Providing an in-depth summary of research on nanomaterials and nano-based devices for field monitoring of crops, this book will serve as an ideal reference for academics, professionals, researchers, and students working in the field of agriculture, nanotechnology, plant science, material science, and crop production. - Presents advancements in our understanding of molecular and physiological interactions between nanoparticles and crop plants - Includes figures and illustrations to help readers visualize and easily understand the role of nanomaterials - Serves as an ideal reference for those studying smart nanomaterials, biosensors, and nanodevices for real-time plant stress measurement

**bmc plant biology impact factor: Plant Physiological Ecology** Hans Lambers, F Stuart Chapin III, Thijs L. Pons, 2008-10-08 Box 9E. 1 Continued FIGURE 2. The C–S–R triangle model (Grime 1979). The strategies at the three corners are C, competiti- winning species; S, stress-tolerating s- cies; R,ruderalspecies. Particular species can engage in any mixture of these three primary strategies, and the m- ture is described by their position within the triangle. comment briefly on some other dimensions that Grime's (1977) triangle (Fig. 2) (see also Sects. 6. 1 are not yet so well understood. and 6. 3 of Chapter 7 on growth and allocation) is a two-dimensional scheme. A C—S axis (Com- tition-winning species to Stress-tolerating spe- Leaf Economics Spectrum cies) reflects adaptation to favorable vs. unfavorable sites for plant growth, and an R- Five traits that are coordinated across species are axis (Ruderal species) reflects adaptation to leaf mass per area (LMA), leaf life-span, leaf N disturbance. concentration, and potential photosynthesis and dark respiration on a mass basis. In the five-trait Trait-Dimensions space,79%ofallvariation worldwideliesalonga single main axis (Fig. 33 of Chapter 2A on photo- A recent trend in plant strategy thinking has synthesis; Wright et al. 2004). Species with low been trait-dimensions, that is, spectra of varia- LMA tend to have short leaf life-spans, high leaf tion with respect to measurable traits. Compared nutrient concentrations, and high potential rates of mass-based photosynthesis. These species with category schemes, such as Raunkiaer's, trait occur at the ''quick-return'' end of the leaf e- dimensions have the merit of capturing cont- nomics spectrum.

**bmc plant biology impact factor:** *Sustainable Crop Productivity and Quality under Climate*

*Change* Fulai Liu, Xiangnan Li, Petra Hogy, Dong Jiang, Marian Brestic, Bing Liu, 2022-06-07 Sustainable Crop Productivity and Quality under Climate Change: Responses of Crop Plants to Climate Change explores the physiological, biochemical, and molecular basis of the responses of major crop plants to a range of climate change scenarios. From the development of climate-resilient crop varieties which lead to enhanced crop productivity and quality to better utilization of natural resources to ensure food security through modern breeding techniques, it presents insights into improving yield while securing the environment. Understanding the impact of climate on crop quality and production is a key challenge of crop science. Predicted increases in climate variability necessitate crop varieties with intrinsic resilience to cooccurring abiotic stresses such as heat, drought, and flooding in a future climate of elevated CO2. This book presents a much-needed mechanistic understanding of the interactions between multiple stress responses of plants that is required to identify and take advantage of acclimation traits in major crop species as a prerequisite for securing robust yield and good quality. This book is an excellent reference for crop and agricultural scientists, plant scientists, and researchers working on crop plant ecophysiology/stress physiology and future crop production. - Includes breeding strategies for developing climate-resilient crop varieties - Presents a comprehensive overview of the current challenges, approaches, and best practices - Authored by frontline researchers and experts who work at the fields of climate change impacts on crop productivity

**bmc plant biology impact factor:** *Biological & Agricultural Index* , 1981

**bmc plant biology impact factor:** *Phytonutritional Improvement of Crops* Noureddine Benkeblia, 2017-07-25 An in-depth treatment of cutting-edge work being done internationally to develop new techniques in crop nutritional quality improvement Phytonutritional Improvement of Crops explores recent advances in biotechnological methods for the nutritional enrichment of food crops. Featuring contributions from an international group of experts in the field, it provides cutting-edge information on techniques of immense importance to academic, professional and commercial operations. World population is now estimated to be 7.5 billion people, with an annual growth rate of nearly 1.5%. Clearly, the need to enhance not only the quantity of food produced but its quality has never been greater, especially among less developed nations. Genetic manipulation offers the best prospect for achieving that goal. As many fruit crops provide proven health benefits, research efforts need to be focused on improving the nutritional qualities of fruits and vegetables through increased synthesis of lycopene and beta carotene, anthocyanins and some phenolics known to be strong antioxidants. Despite tremendous growth in the area occurring over the past several decades, the work has only just begun. This book represents an effort to address the urgent need to promote those efforts and to mobilise the tools of biotechnical and genetic engineering of the major food crops. Topics covered include: New applications of RNA-interference and virus induced gene silencing (VIGS) for nutritional genomics in crop plants Biotechnological techniques for enhancing carotenoid in crops and their implications for both human health and sustainable development Progress being made in the enrichment and metabolic profiling of diverse carotenoids in a range of fruit crops, including tomatoes, sweet potatoes and tropical fruits Biotechnologies for boosting the phytonutritional values of key crops, including grapes and sweet potatoes Recent progress in the development of transgenic rice engineered to massively accumulate flavonoids in-seed Phytonutritional Improvement of Crops is an important text/reference that belongs in all universities and research establishments where agriculture, horticulture, biological sciences, and food science and technology are studied, taught and applied.

**bmc plant biology impact factor:** *Climate Change and Crop Stress* Arun K.Shanker, Chitra Shanker, Anjali Anand, M. Maheswari, 2021-11-19 Climate Change and Crop Stress: Molecules to Ecosystems expounds on the transitional period where science has progressed to 'post-genomics' and the gene editing era, putting field performance of crops to the forefront and challenging the production of practical applicability vs. theoretical possibility. Researchers have concentrated efforts on the effects of environmental stress conditions such as drought, heat, salinity, cold, or pathogen infection which can have a devastating impact on plant growth and yield. Designed to deliver

information to combat stress both in isolation and through simultaneous crop stresses, this edited compilation provides a comprehensive view on the challenges and impacts of simultaneous stresses. - Presents a multidisciplinary view of crop stresses, empowering readers to quickly align their individual experience and perspective with the broader context - Combines the mechanistic aspects of stresses with the strategic aspects - Presents both abiotic and biotic stresses in a single volume

**bmc plant biology impact factor: Artemisia annua** Tariq Aftab, M. Naeem, M. Masroor A. Khan, 2017-12-14 Artemisia annua is a well-known medicinal plant that has been utilized for a number of purposes, including malaria, for centuries. This is the first comprehensive book to cover the importance of Artemisia annua in the global health crisis and in the treatment against diseases. A component and extract, artemisinin, is the source of other derivatives which are also suitable for pharmaceutical use. The present demand for artemisinin far outpaces its supply. Researchers are working globally towards improving artemisinin content in the plant by various means. Artemisia annua: Prospects, Applications and Therapeutic Uses highlights the different approaches, including 'omics', that are being used in current research on this immensely important medicinal plant. Providing comprehensive coverage of the agricultural and pharmaceutical uses of this plant, Artemisia annua will be essential reading for botanists, plant scientists, herbalists, pharmacognosists, pharmacologists and natural product chemists.

**bmc plant biology impact factor: Ethylene in Plant Biology** Samiksha Singh, Tajammul Husain, Vijay Pratap Singh, Durgesh K. Tripathi, Sheo Mohan Prasad, Nawal Kishore Dubey, 2022-08-24 ETHYLENE IN PLANT BIOLOGY Comprehensive resource detailing the role of ethylene in plant development regulation, gene regulation, root development, stress tolerance, and more Ethylene in Plant Biology presents ethylene research from leading laboratories around the globe to allow readers to gain strong foundational coverage of the topic and aid in further ethylene research as it pertains to plant biology. The work covers general ideas as well as more specific and technical knowledge, detailing the overall role of ethylene in plant biology as a gaseous plant hormone that has emerged as an important signaling molecule which regulates several steps of a plant's life cycle. The ideas covered in the work range from discovery of ethylene, to its wide roles in plant growth and development, all the way to niche topics such as stress acclimation. Written by highly qualified authors in fields directly related to plant biology and research, the work is divided into 20 chapters, with each chapter covering a specific facet of ethylene or the interaction between ethylene and plant health. Topics discussed in the text include: Our current understanding of ethylene and fruit ripening, plus the role of ethylene in flower and fruit development Ethylene implications in root development and crosstalk of ethylene with other phytohormones in plant development Ethylene as a multitasking regulator of abscission processes and powerful coordinator of drought responses Mechanisms for ethylene synthesis and homeostasis in plants, along with ethylene and phytohormone crosstalk in plant defense Ethylene and metabolic reprogramming under abiotic stresses, as well as ethylene's applications in crop improvement For biologists, scientists, researchers, and policy makers in the agriculture and pharmaceutical industries, Ethylene in Plant Biology is a key resource to understand the state of the art in the field and establish a foundation of knowledge that can power future research efforts and practical applications.

**bmc plant biology impact factor: Plant Genomics** Ibrokhim Y. Abdurakhmonov, 2016-07-14 Plant genomics aims to sequence, characterize, and study the genetic compositions, structures, organizations, functions, and interactions/networks of an entire plant genome. Its development and advances are tightly interconnected with proteomics, metabolomics, metagenomics, transgenomics, genomic selection, bioinformatics, epigenomics, phenomics, system biology, modern instrumentation, and robotics sciences. Plant genomics has significantly advanced over the past three decades in the land of inexpensive, high-throughput sequencing technologies and fully sequenced over 100 plant genomes. These advances have broad implications in every aspect of plant biology and breeding, powered with novel genomic selection and manipulation tools while generating many grand challenges and tasks ahead. This Plant genomics provides some updated discussions on current advances, challenges, and future perspectives of plant genome studies and

applications.

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**bmc plant biology impact factor:** Fruit Ripening Pravendra Nath, Mondher Bouzayen, Autar K. Mattoo, Jean claude Pech, 2014-07-16 Fruit ripening is an important aspect of fruit production. The timing of it affects supply chains and buying behaviour, and for consumers ripeness not only affects perceptions of health but has nutritional effects too. Ripeness is closely related to spoilage which has a major financial impact on agricultural industries. Currently there are fast moving developments in knowledge of the factors affecting fruit ripeness, and this up-to-date monograph seeks to draw together the disparate research in this area. The aim of the book is to produce a comprehensive account covering almost every area related to fruit ripening including the latest molecular mechanisms regulating fruit ripening, its impact on human nutrition and emerging research and technologies.

**bmc plant biology impact factor: Arsenic in Rice** Garima Awasthi, Sudhakar Srivastava, Mahipal Singh Sankhla, 2024-02-06 Arsenic has been said to be one of the world’s most toxic elements, infiltrating the food chain and finding its way into foods. Studies have recently detected high levels of arsenic in rice, which is a major concern since rice is a staple food for a large part of the world’s population. This new volume addresses this problem, covering arsenic contamination in rice and offering effective mitigation strategies.

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