

impact factor international journal of biological macromolecules

impact factor international journal of biological macromolecules is a critical metric widely recognized in the scientific community for assessing the quality and influence of research published within this esteemed journal. The International Journal of Biological Macromolecules is a prominent publication covering a broad spectrum of topics related to the structure, function, and applications of biological macromolecules such as proteins, nucleic acids, polysaccharides, and lipids. Understanding the impact factor of this journal provides valuable insight into its academic reputation, citation frequency, and overall contribution to the fields of biochemistry, molecular biology, and biotechnology. This article delves into the significance of the impact factor, factors influencing it, and how it affects authors, institutions, and researchers aiming to publish in this journal. Additionally, the discussion covers recent trends in the journal's impact factor and compares it with related journals in the biological macromolecules discipline. The following sections offer a comprehensive breakdown of the impact factor's role in scholarly communication and the specific standing of the International Journal of Biological Macromolecules within the scientific publishing landscape.

- Understanding the Impact Factor
- Overview of the International Journal of Biological Macromolecules
- Current Impact Factor and Trends
- Factors Influencing the Impact Factor
- Importance of the Impact Factor for Researchers and Institutions
- Comparison with Peer Journals
- Strategies to Enhance the Journal's Impact Factor

Understanding the Impact Factor

The impact factor is a quantitative measure reflecting the average number of citations received per paper published in a journal during a specific period, typically two years. It serves as an indicator of the journal's relative importance within its field, guiding researchers, authors, and academic institutions in evaluating journals for publishing and referencing. The impact factor is calculated annually by dividing the number of citations in

the current year to articles published in the previous two years by the total number of citable items published in those years. This metric helps to assess the visibility and influence of scientific work disseminated through the journal.

Calculation Methodology

The impact factor calculation involves two key components: the numerator – total citations in a given year to articles published in the journal during the preceding two years, and the denominator – the total number of articles considered citable (such as research articles and reviews) published in those two years. This method standardizes citation counts and provides a consistent metric for comparison across journals.

Limitations of the Impact Factor

While the impact factor is widely used, it has several limitations. It does not account for the quality of citations, can be influenced by editorial policies, and may disadvantage journals in niche fields with smaller citation pools. Additionally, the impact factor only reflects short-term citation impact, neglecting the longer-term significance of some research.

Overview of the International Journal of Biological Macromolecules

The International Journal of Biological Macromolecules is a peer-reviewed scientific journal dedicated to publishing original research articles, reviews, and short communications on the chemistry, biology, physics, and applications of biological macromolecules. It covers a diverse range of topics including protein chemistry, nucleic acid biochemistry, polysaccharide structure and function, and biomaterials science. The journal aims to serve as a platform for interdisciplinary research at the interface of biology and materials science.

Scope and Audience

This journal attracts researchers from academia, industry, and government institutions involved in molecular biology, biochemistry, biotechnology, and related fields. Its broad scope allows for the dissemination of novel findings with implications in drug development, diagnostics, and biomolecular engineering.

Publication Frequency and Review Process

The International Journal of Biological Macromolecules publishes issues regularly throughout the year, maintaining a rigorous peer-review process to ensure high-quality and scientifically sound publications. This commitment to quality contributes to the journal's reputation and impact factor.

Current Impact Factor and Trends

The impact factor of the International Journal of Biological Macromolecules has experienced consistent growth over recent years, reflecting increased citation rates and broader visibility. As of the latest Journal Citation Reports, the journal's impact factor stands as a robust indicator of its prominence within the biological macromolecules research community.

Recent Impact Factor Values

In the most recent reporting period, the journal's impact factor has been reported in the range of approximately 6.0 to 8.0, positioning it among the leading journals in biochemistry and molecular biology. This upward trend highlights the increasing relevance of research published in this journal.

Citation Patterns and Article Influence

Articles published in the International Journal of Biological Macromolecules often receive citations from a wide array of scientific disciplines, emphasizing the interdisciplinary appeal of its content. High-impact review articles and innovative original research contribute significantly to overall citation counts.

Factors Influencing the Impact Factor

Several factors directly affect the impact factor of the International Journal of Biological Macromolecules. Understanding these elements is crucial for both the journal's editorial strategy and authors aiming to maximize the visibility of their research.

Quality and Novelty of Published Research

Publishing groundbreaking and high-quality research is a primary driver for attracting citations. Articles that introduce novel concepts or techniques tend to be cited more frequently, boosting the journal's impact factor.

Editorial and Peer Review Policies

Stringent peer review and selective acceptance rates help maintain scientific rigor, enhancing the journal's reputation and citation appeal. Editorial decisions about article types and special issues also influence citation dynamics.

Open Access and Visibility

Increased accessibility through open access options and digital dissemination can lead to higher article visibility and citation rates. The journal's indexing in major databases facilitates discoverability by a global audience.

Publication Timeliness

Rapid publication timelines encourage timely dissemination of research findings, which can positively impact citation frequency within the critical two-year window considered for impact factor calculations.

Importance of the Impact Factor for Researchers and Institutions

The impact factor of the International Journal of Biological Macromolecules plays a pivotal role in academic evaluation, research funding allocations, and career advancement decisions. It is a key consideration for authors when selecting publication venues and for institutions assessing research productivity.

Influence on Author Publication Decisions

Researchers often prioritize submitting their work to journals with higher impact factors to enhance the visibility and perceived prestige of their research, which can facilitate collaborations and future funding opportunities.

Institutional and Funding Agency Perspectives

Universities and funding bodies may use the journal's impact factor as part of their metrics to evaluate research output quality, affecting grant approvals, promotions, and institutional rankings.

Role in Academic Metrics and Rankings

The impact factor contributes to broader academic metrics such as the h-index and university rankings, indirectly shaping research strategies and publication priorities.

Comparison with Peer Journals

The International Journal of Biological Macromolecules is often compared with other leading journals in the fields of biochemistry, molecular biology, and biomaterials science to contextualize its impact factor and influence.

Leading Journals in Biological Macromolecules

Peer journals include Biomacromolecules, Journal of Biological Chemistry, and Carbohydrate Polymers, each with its own impact factor reflecting varying scopes and audiences within the biological macromolecules research community.

Relative Impact Factor Analysis

While the International Journal of Biological Macromolecules maintains a competitive impact factor within its domain, differences in focus, article types, and editorial policies contribute to variations among these journals.

Complementary Roles in Research Dissemination

Collectively, these journals serve complementary roles, catering to specialized and interdisciplinary research needs, thereby enriching the scientific literature on biological macromolecules.

Strategies to Enhance the Journal's Impact Factor

To further improve the impact factor of the International Journal of Biological Macromolecules, several strategic initiatives can be implemented by the editorial team and contributing authors.

1. **Encouraging High-Impact Submissions:** Soliciting cutting-edge research and comprehensive review articles that are likely to attract citations.
2. **Special Issues on Emerging Topics:** Publishing themed issues focusing on trending areas to increase readership and citations.

3. **Enhancing Article Visibility:** Utilizing social media, press releases, and academic networking to promote published research.
4. **Streamlining Peer Review:** Reducing publication lag times to ensure timely dissemination and citation accumulation.
5. **Expanding Open Access Options:** Increasing accessibility to research outputs to broaden the audience base.

Frequently Asked Questions

What is the current impact factor of the International Journal of Biological Macromolecules?

As of 2023, the International Journal of Biological Macromolecules has an impact factor of approximately 8.1, reflecting its strong influence in the field of biological macromolecules research.

How has the impact factor of the International Journal of Biological Macromolecules changed over recent years?

The impact factor of the International Journal of Biological Macromolecules has shown a consistent upward trend over recent years, indicating growing recognition and citation of its published research in the scientific community.

What does the impact factor indicate about the International Journal of Biological Macromolecules?

The impact factor indicates the average number of citations to recent articles published in the journal, serving as a measure of the journal's prestige and the relevance of its content in the field of biological macromolecules.

How does the impact factor of the International Journal of Biological Macromolecules compare to other journals in the same field?

The International Journal of Biological Macromolecules typically ranks among the top journals in the field of biochemistry and molecular biology, with an impact factor that is competitive compared to other specialized journals focusing on biological macromolecules.

Why is the impact factor important for authors considering submitting to the International Journal of Biological Macromolecules?

Authors often consider the impact factor as it reflects the visibility and citation potential of their work; publishing in a journal like the International Journal of Biological Macromolecules with a strong impact factor can enhance the reach and academic impact of their research.

Where can I find the official impact factor of the International Journal of Biological Macromolecules?

The official impact factor can be found on the Journal Citation Reports (JCR) website provided by Clarivate Analytics, as well as on the journal's official homepage and publisher's site, where the latest metrics are regularly updated.

Additional Resources

1. Biological Macromolecules: Structure and Function

This book provides a comprehensive overview of the structure, function, and dynamics of biological macromolecules such as proteins, nucleic acids, carbohydrates, and lipids. It delves into the molecular mechanisms that govern cellular processes and highlights recent advances in biophysical techniques. Ideal for researchers and students, it bridges fundamental concepts with cutting-edge research.

2. Advanced Methods in Biological Macromolecule Analysis

Focusing on state-of-the-art analytical techniques, this book explores methods used in the study of biological macromolecules, including spectroscopy, crystallography, and electron microscopy. It discusses practical applications and troubleshooting tips for experimental research. The text serves as a valuable resource for scientists aiming to enhance their analytical capabilities.

3. Macromolecular Interactions in Biological Systems

This book examines the complex interactions between biological macromolecules and their roles in cellular functions and signaling pathways. It covers protein-protein, protein-DNA, and other macromolecular complexes with an emphasis on their biophysical and biochemical properties. Readers will gain insight into how these interactions influence health and disease.

4. Biopolymer Engineering and Applications

Highlighting the engineering aspects of biological macromolecules, this text presents the design, synthesis, and application of biopolymers in medicine, biotechnology, and materials science. It integrates principles of molecular biology with engineering strategies to develop novel functional materials. The book is suited for interdisciplinary researchers exploring biomaterials.

5. *Structural Biology of Macromolecules: Techniques and Applications*

Offering a detailed account of techniques such as X-ray crystallography, NMR spectroscopy, and cryo-EM, this book focuses on determining the 3D structures of biological macromolecules. It illustrates how structural insights contribute to understanding biological mechanisms and drug design. The content is tailored for structural biologists and pharmaceutical scientists.

6. *Biological Macromolecules in Health and Disease*

This text explores the role of key macromolecules in physiological processes and their implications in various diseases. It discusses molecular pathways, genetic mutations, and therapeutic targets involving proteins, nucleic acids, and carbohydrates. Clinicians and researchers will find this book useful for connecting molecular biology with clinical outcomes.

7. *Polymer Science and Technology of Biological Macromolecules*

Focusing on the chemistry and physics of biological polymers, this book covers synthesis, characterization, and functional properties of natural and synthetic macromolecules. It bridges polymer science with biological applications, including drug delivery and tissue engineering. The book is designed for chemists, biologists, and materials scientists alike.

8. *Macromolecular Chemistry in Biotechnology*

This volume highlights the chemical principles underlying the use of macromolecules in biotechnology, including enzyme catalysis, nucleic acid technologies, and protein engineering. It emphasizes recent innovations and practical applications in industrial and medical biotechnology. A valuable reference for biotechnologists and chemical engineers.

9. *Recent Advances in Biological Macromolecules Research*

Compiling current research trends and breakthroughs, this book presents cutting-edge studies in the field of biological macromolecules. Topics include novel biomolecular structures, functional mechanisms, and emerging therapeutic strategies. It is aimed at researchers seeking an up-to-date overview of the rapidly evolving discipline.

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Biosensors for Infectious Diseases Sushma Dave, Jayashankar Das, 2023-06-21 Point-of-Care Biosensors for Infectious Diseases Comprehensive resource covering key developments in biosensor-based diagnostics for infectious diseases With its overview of currently available technologies, Point-of-Care Biosensors for Infectious Diseases serves as a starting point for the successful development and application of pathogen biosensors in a point-of-care setting. Here, expert authors review current challenges in pathogen detection and the selection of suitable biomarkers, detail currently available biosensor platforms including electrochemical, piezoelectric, magnetic, and optical sensors, and cover technology development for point-of-care biosensors for viral, bacterial, and parasitic infections. Point-of-Care Biosensors for Infectious Diseases covers key topics such as: Fundamentals of biosensor detection, with a focus on optical and electrochemical techniques Organic and inorganic based nanomaterials for healthcare diagnostics Strategies for miniaturizing biosensor devices, and state-of-the-art integrated sensing platforms Latest trends in point-of-care biosensing systems to detect, diagnose, and monitor infectious diseases Providing comprehensive coverage of the subject, Point-of-Care Biosensors for Infectious Diseases is an excellent reference for all developers, researchers, and technology managers in the areas of molecular diagnosis, infectious diseases, biosensors, and related fields.

impact factor international journal of biological macromolecules: Chitin and Chitosan Derivatives Se-Kwon Kim, 2013-12-04 A natural long-chain polymer, chitin is the main component of the cell walls of fungi, the exoskeletons of arthropods (including crustaceans and insects), the radulas of mollusks, and the beaks and internal shells of cephalopods. However, marine crustacean shells are the primary sources of the chitin derivative chitosan. Chitin and chitosan are useful for various biological and biomedical applications, although they have been limited by poor solubility in the past. Current research focuses on increasing their solubility and bioactivity through molecular modifications. The resulting derivatives are receiving much attention for interesting properties, such as biocompatibility, biodegradability, and nontoxicity, that make them suitable for use in the biomedical field. Chitin and Chitosan Derivatives: Advances in Drug Discovery and Developments presents current research trends in the synthesis of chitin and chitosan derivatives, their biological activities, and their biomedical applications. Part I discusses basic information about the synthesis and characterization of a variety of derivatives, including the preparation of chitin nanofibers. Part II covers chitin and chitosan modifications as the basis for biological applications. It describes antioxidant, anti-inflammatory, anticancer, antiviral, anticoagulant, and antimicrobial activities. Part III addresses chemically modified and composite materials of chitin and chitosan derivatives for biomedical applications, such as tissue engineering, nanomedicine, drug delivery, and wound dressing. A must-have reference for novices and experts in biotechnology, natural products, materials science, nutraceuticals, and biomedical engineering, this book presents a wide range of biological and biomedical applications of chitin and chitosan derivatives for drug discovery and development.

impact factor international journal of biological macromolecules: Spectroscopy and Machine Learning Tools for Food Quality and Safety , 2025-08-25 Spectroscopy and Machine Learning Tools for Food Quality and Safety, Volume 115 in the Advances in Food and Nutrition Research series, highlights new advances in the field, with this new volume presenting interesting chapters related to Spectroscopy and Machine Learning Tools. Chapters in this new release include NIR applications in livestock farming systems and derived products, Fluorescence spectroscopy in grape and wine composition and quality control, From Farm to Fork: Spectroscopy in Meat Quality and Safety Assurance, Raman and Mid infrared in food safety and composition, Spectroscopy food functionality and safety, and Handheld NIR spectroscopy for real-time on-site food quality and safety monitoring. - Provides the latest information on Advances in Food and Nutrition Research - Offers outstanding and original reviews on a range of Spectroscopy and Machine Learning Tools for Food Quality and Safety topics - Serves as an indispensable reference for researchers and students alike

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helping the reader better understand advanced wound care and relevant technologies. It explains how different types of wounds may require different environments to heal and how dressings can help in creating the right environment. It gives an overview of the various dressing technologies that are available to help manage wounds that are difficult to heal. Finally, this book highlights the current trends that may be directing the future of the advanced wound dressing sector. **FEATURES:** Relates technologies with commercially available end-products, giving the reader a more specific overview of the advanced wound dressing sector Provides a realistic overview of the process of developing an advanced wound care dressing Summarises recent clinical evidence on advanced wound dressings Explains how dressings differ and what works best for which wound type Examines clinical evidence on technologies and on-market products Describes the requirements for launching a new advanced wound dressing This book is aimed at medical clinicians and professionals in the fields of biomedical engineering, textile science, and materials engineering.

impact factor international journal of biological macromolecules: Microbial Essentialism Raghvendra Pratap Singh, Geetanjali Manchanda, Sreedevi Sarsan, Ajay Kumar, Hovik Panosyan, 2024-03-09 Microbial Essentialism: An Industrial Prospective refers to properties specifically possessed by microbes such as secretion of metabolites which make them unique and can be employed by industries. These microorganisms can be commercially exploited for beneficial purposes such as the production of whole microbial cells or their products for direct use or as starting raw material in the manufacture of other commercial products which can contribute to large-scale and profit-oriented businesses. Microbial Essentialism: An Industrial Prospective reviews the newest techniques, approaches, and options in the use of microorganisms for the manufacture of industrially important products such as pharmaceuticals, industrial enzymes, chemicals, proteins, foods and beverages, and fuels. It covers fundamental principles of established and innovative industrial microbiology and biotechnology processes and products. It also discusses industrial microorganisms and the technology required for large-scale cultivation and isolation of fermentation products. - Covers key aspects of microbial physiology, exploring the versatility of microorganisms and their diverse metabolic activities and products - Provides methods and various traditional and novel applications of microorganisms to industrial processes - Contributed by a multidisciplinary group of experts who offer not only a thorough evaluation of the primary literature, but also invaluable first-hand experience in industrial microbiology and biotechnology

impact factor international journal of biological macromolecules: Fermentation Processes Engineering in the Food Industry Carlos Ricardo Soccol, Ashok Pandey, Christian Larroche, 2013-03-27 With the advent of modern tools of molecular biology and genetic engineering and new skills in metabolic engineering and synthetic biology, fermentation technology for industrial applications has developed enormously in recent years. Reflecting these advances, Fermentation Processes Engineering in the Food Industry explores the state of the art of the engineering technology aspects of fermentation processes in diverse food sectors. The book describes the benefits of fermented foods in human health in both dairy and non-dairy products and beverages. It examines applications of microalgae in the food industry and explains the application of metabolic engineering in the production of fermented food ingredients. Exploring a host of important topics in engineering fermentation processes, the book covers topics such as: Methods and techniques for the isolation, improvement, and preservation of the microbial cultures used in the food fermentation industry The fundamentals of fermentation processes, modes of fermentation, and the principles of upstream operation Physical and chemical factors that affect fermentation processes Different types of fermenters employed in submerged and solid-state fermentation Unitary operations for solid-liquid separation, concentration, and drying of fermented foods Instrumentation and control of industrial fermentation processes The final chapter discusses the potential application of a biorefinery concept to add value to food industry wastes and presents a case study describing an integrated project in which the concept was applied. An essential reference for all food sector professionals, this volume surveys critical trends in the food, beverage, and additive industry and explores the sustainability of these processes.

impact factor international journal of biological macromolecules: Nanotoxicology

Hemant Kumar Daima, S. L. Kothari, Bhargava Suresh Kumar, 2021-07-14 The field of nanomedicine has risen quickly due to the increasing number of designer-made nanomaterials. These nanomaterials have the potential to manage diseases and change the way medicine is currently studied. However, the increased practice of using nanomaterials has shed light on how many concepts of nanomedicine and nanotoxicity have been overlooked. Nanotoxicology: Toxicity Evaluation of Nanomedicine Applications addresses the existing gaps between nanomedicine and nanotoxicity. This book also brings together up-to-date knowledge on advances toward safe-by-design nanomaterials and existing toxicity challenges. This book delivers a comprehensive coverage in the field with fundamental understanding, serving as a platform to convey essential concepts of nanotoxicology and how these concepts can be employed to develop advanced nanomaterials for a range of biomedical applications. This book is an effort to answer some of the thoughtful nanotoxicological complications and their auspicious probable solutions with new approaches and careful toxicity assessment. Key Features: Reveals novel nanoscale approaches, toxicity assessment, and biomedical applications Includes importance of nanotoxicity concepts in developing smart nanomaterials Highlights unique contributions and A to Z aspects on the state-of-the-art from global leaders Offers a complete package to learn fundamentals with recommendations on nanomaterials toxicity and safe-by-design nanomedicines Nanotoxicology: Toxicity Evaluation of Nanomedicine Applications illuminates the high potential of many innovative nanomaterials, ultimately demonstrating them to be promising substitutes for available therapies that can be effectively used in fighting a myriad of biomedical complications. Further, this book reports legal, ethical, safety, and regulatory issues associated with nanomaterials, which have often been neglected, if not overlooked in literature and limiting clinical translation at nanoscale level. It will equip readers with cutting-edge knowledge of promising developments in nanomedicine and nanotoxicology, along with potential future prospects.

impact factor international journal of biological macromolecules: Phytochemicals Iraj

Rasooli, 2011-12-22 Among the thousands of naturally occurring constituents so far identified in plants and exhibiting a long history of safe use, there are none that pose - or reasonably might be expected to pose - a significant risk to human health at current low levels of intake when used as flavoring substances. Due to their natural origin, environmental and genetic factors will influence the chemical composition of the plant essential oils. Factors such as species and subspecies, geographical location, harvest time, plant part used and method of isolation all affect chemical composition of the crude material separated from the plant. The screening of plant extracts and natural products for antioxidative and antimicrobial activity has revealed the potential of higher plants as a source of new agents, to serve the processing of natural products.

impact factor international journal of biological macromolecules: Bioactive Compounds in

Fermented Foods Amit Kumar Rai, Anu Appaiah K. A., 2021-11-29 The volume reviews different types of bioactive components associated with food fermentation and their impact on human health. The diversity of microorganism responsible for the production of different types of fermented foods and beverages includes bacteria, yeasts, and fungi. Biotransformation of food constituent by microorganisms occurs during fermentation processes for the production of fermented food and in the gastrointestinal tract by gut microorganisms. This biotransformation results in production of specific bioactive compounds that are responsible for a wide range of health benefits. The bioactive compounds discussed in this book includes polyphenols, bioactive peptides, fibrinolytic enzymes, gamma-amino butyric acids (GABA) exopolysaccharides, probiotic, prebiotic, symbiotic and antinutritional factors. These bioactive compounds are responsible for health benefits such as antioxidant, antihypertension, antimicrobial, cholesterol lowering, anticancer, obesity and antithrombotic properties. Advanced research in the field of food fermentation and their health benefits have resulted in commercialization of some of the fermented foods as functional foods. The traditional fermented foods consumed in different parts of the world and their health benefits are discussed in detail and the book concludes with recent advances in microbial transformation during

gut fermentation and their impact on human health. There has been increasing interest among researchers on the proposed title in the last decade and the book brings updated information on research and advances in different types of health benefits exhibited by bioactive compounds in a wide range of fermented foods.

impact factor international journal of biological macromolecules: Emerging Trends in Nanomedicine Sanjay Singh, 2021-04-08 This book illustrates the significance of nanotechnology in the delivery of anticancer and antimicrobial drugs, biomimetic technologies, tissue engineering, sensing, diagnostics, and artificial enzymes. It first briefly discusses the use of nanotechnology for the delivery of anticancer medications, and the concept and applications of catalytically active nanomaterial-based artificial enzymes for sensing and diagnostic applications. It then explores the use of silver nanoparticle-based novel antimicrobials, and comprehensively reviews the role of nanomaterials in developing biomedical implants and tissue engineering applications. Lastly, it offers a detailed description of nanotherapeutics for combating human protozoan parasitic infections. Cutting across the disciplines, this book serves as a guide for researchers and scientists in biotechnology, medical science and material science.

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impact factor international journal of biological macromolecules: Cereal Grains Sukhvinder Singh Purewal, 2025-08-29 Cereal grains are a major part of the global diet, but their nutritional benefits depend on how they are processed. This book explores how various techniques influence nutrient content, bioavailability, and food quality. It provides a clear understanding of traditional and modern processing methods, helping professionals optimize grain-based products. This book provides updated information on innovative grain processing techniques and demonstrates how different methods affect dietary value. Helpful for the industrial sector as well as serving as a reliable source for food science and nutrition studies, this book bridges the gap between research and real-world applications, ultimately offering practical and meaningful information for improving cereal-based, health-benefiting food products. Key Features Provides comprehensive knowledge on different kinds of cereal processing methods Presents the latest information on the effect of processing methods on the specific nutrients (macro as well as micro) of cereal grains Includes techniques to minimize nutrient loss

impact factor international journal of biological macromolecules: Heavy Metal Toxicity and Neurodegeneration Prasann Kumar, Neha Gogia, 2025-08-01 Heavy Metal Toxicity and Neurodegeneration delves into the intricate relationship between heavy metals and neurodegenerative diseases. It synthesizes and presents the latest research findings, shedding light on the mechanisms by which heavy metals cause neuronal damage and contribute to disease progression. By integrating various perspectives and collating diverse studies, this book serves as an invaluable resource for those seeking to understand the profound impact of heavy metals on neurological health. In addition to detailing the mechanisms involved, the book highlights the importance of early detection and preventive measures. It caters to researchers, clinicians, policymakers, and students, offering a comprehensive and accessible overview that bridges the gap between theory and practical application. This scholarly work is poised to inform and guide future research and policy decisions in the field of neurodegenerative disease. - Provides a comprehensive overview of how heavy metals interact with biological systems, particularly the nervous system -

Explains the mechanisms through which metals contribute to neurodegenerative diseases -
Highlights the public health implications of heavy metal exposure, including its impact on vulnerable populations such as children and older people

impact factor international journal of biological macromolecules: Biopolymers and Biopolymer Blends Abdul Khalil H.P.S., Nurul Fazita M. R., Mohd Nurazzi N., 2024-02-16
Biopolymer and Biopolymer Blends: Fundamentals, Processes, and Emerging Applications showcases the potential of biopolymers as alternative sources to conventional nonbiodegradable petroleum-based polymers. It discusses fundamentals of biopolymers and biopolymer blends from natural and synthetic sources, synthesis, and characterization. It also describes development of desired performance for specific applications in 3D printing and other emerging applications in industry, including packaging, pulp and paper, agriculture, biomedical, and marine. Introduces the fundamentals, synthesis, processing, and structural and functional properties of biopolymers and biopolymer blends Explains the fundamental framework of biopolymer blends in 3D printing, featuring current technologies, printing materials, and commercialization of biopolymers in 3D printing Reviews emerging applications, including active food packaging, electronic, antimicrobial, environmental, and more Discusses current challenges and futures prospects. Providing readers with a detailed overview of the latest advances in the field and a wealth of applications, this work will appeal to researchers in materials science and engineering, biotechnology, and related disciplines.

impact factor international journal of biological macromolecules: Nanotechnology in Plant Health Mahendra Rai, Graciela Avila-Quezada, 2024-04-23 Nanotechnology is an emerging, pivotal platform for enhancing plant health. On one hand, nanomaterials serve as crucial nutrients and nanofertilizers, while on the other, they have demonstrated their potential for diagnosing plant diseases, delivering fungicides and pesticides, and providing therapeutic solutions against diseases caused by pathogens and parasites. The book Nanotechnology in Plant Health explores the significance of nanomaterials in plant nutrition, nanofertilizers, and their role in managing plant pathogens, including the most formidable ones like quarantined strains. This unique publication represents a global team of contributors and stands out for its comprehensive coverage of plant nanonutrients, nanofertilizers, and nano-plant protectors.

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impact factor international journal of biological macromolecules: Metallic Nanoparticles for Health and the Environment Md Sabir Alam, Md Noushad Javed, Jamilur R. Ansari, 2023-10-16
Metallic Nanoparticles for Health and the Environment covers different routes of synthesis for metallic nanoparticles and their process variables. Both the functions and roles of these particles as a drug delivery system and diagnostic agent and other potential theranostic purposes against metabolic disorders, photocatalysis applications, as well as wastewater treatments, are discussed. The book compares the different properties of bulk metallic forms and their nanoparticulated forms. It discusses the mechanisms and impacts of different process variables in different synthesis routes, as well as emerging trends in clinics and so forth. Features: Covers different routes of synthesis to create metallic nanoparticles (MNPs) of different characteristics with reference to bulk forms of metals Describes formulation parameters that have a significant effect on these MNPs including

dimensions, morphology, mechanism, surface properties, and other characteristics Discusses different roles and performances of MNPs in photothermal therapy, metabolic disorders, mechanisms in bacterial, fungal, and viral infections, and inflammatory pathways Reviews the potential and emerging roles of different MNPs with site target delivery applications and genetic manipulation purposes Examines the advantages and challenges of these MNPs against remediation of pollutants and toxicants, owing to their superior surface catalytic activities This book is aimed at researchers and professionals in nanomaterials, pharmaceuticals, and drug delivery.

impact factor international journal of biological macromolecules: Secondary Metabolites from Medicinal Plants Rakesh Kumar Bachheti, Archana Bachheti, 2023-06-02 Medicinal plant-based synthesis of nanoparticles from various extracts is easy, safe, and eco-friendly. Medicinal and herbal plants are the natural source of medicines, mainly due to the presence of secondary metabolites, and have been used as medicine since ancient times. Secondary Metabolites from Medicinal Plants: Nanoparticles Synthesis and their Applications provides an overview on medicinal plant-based secondary metabolites and their use in the synthesis of different types of nanoparticles. It explores trends in growth, characterization, properties, and applications of nanoparticles from secondary metabolites including terpenoids, alkaloids, flavonoids, and phenolic compounds. It also explains the opportunities and future challenges of secondary metabolites in nanoparticle synthesis. Nanotechnology is a burgeoning research field, and due to its widespread application in almost every branch of science and technology, it creates many new opportunities. As part of the Exploring Medicinal Plants series, this book will be of huge benefit to plant scientists and researchers as well as graduates, postgraduates, researchers, and consultants working in the field of nanoparticles.

impact factor international journal of biological macromolecules: Polymeric Biomaterials Pooja Agarwal, Divya Bajpai Tripathy, Anjali Gupta, Bijoy Kumar Kuanr, 2022-12-30 Biomaterials include a versatile group of molecules that have been designed to interact with biological systems for various applications and polymeric biomaterials are being designed based on their availability and compatibility. This book summarizes fabrication techniques, features, usage, and promising applications of polymeric biomaterials in diversified areas including advantageous industrial applications. Each chapter exclusively covers a distinct application associated with major classes of polymeric biomaterials. Features: Provides platform related to fabrication and advancement of all categories of polymeric biomaterials Explores advancement of pertinent biomedical and drug delivery systems Includes wide range of biomaterials and its application in diversified fields Gives out environmental justification of green biopolymers and their applications in water remediation Discusses advanced applications of bio-composite polymers viz. food packaging and anti-corrosive coatings This book is aimed at researchers in Polymer Sciences, Biomaterials, Chemical/Bio Engineering, Materials Chemistry, and Biotechnology.

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