

acs central science impact factor 2022

ACS Central Science Impact Factor 2022: A Critical Analysis of its Influence on Current Scientific Trends

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Editor: Dr. David Chen, PhD (Chemistry and Chemical Engineering) - Extensive experience in peer-review and scientific publishing.

Abstract: This analysis critically examines the 2022 impact factor of ACS Central Science, exploring its implications for current scientific publishing trends. The analysis delves into the journal's standing within the broader chemical science landscape, considering its editorial policies, scope, and the implications of its impact factor for researchers seeking publication venues and funding agencies evaluating research output. The acs central science impact factor 2022 is positioned within the context of broader trends in journal metrics and their limitations.

Keywords: acs central science impact factor 2022, journal impact factor, scientific publishing, bibliometrics, scientometrics, ACS publications, open access, research evaluation, citation analysis.

1. Introduction: Understanding the ACS Central Science Impact Factor 2022

The acs central science impact factor 2022 is a crucial metric for understanding the journal's influence and standing within the scientific community. The impact factor, calculated annually by Clarivate Analytics for their Journal Citation Reports (JCR), represents the average number of citations received per publication in a given year. A higher impact factor generally suggests greater influence and visibility within the field. However, the interpretation and significance of the acs central science impact factor 2022 require careful consideration, moving beyond a simple numerical comparison. This analysis will dissect the implications of the 2022 impact factor for researchers, institutions, and the broader scientific

landscape.

2. ACS Central Science: Scope and Editorial Policies

ACS Central Science is a flagship open-access journal published by the American Chemical Society (ACS). Its scope encompasses a broad range of chemical sciences, including but not limited to organic chemistry, inorganic chemistry, physical chemistry, analytical chemistry, materials science, and chemical biology. The journal's editorial policies emphasize high-quality research with broad impact and significance. This commitment to quality, coupled with its open-access model, contributes to its visibility and potential for citation. However, the selective nature of its publication process, leading to a relatively small number of publications each year, may also influence its impact factor.

3. Analyzing the ACS Central Science Impact Factor 2022 in Context

The actual ACS Central Science impact factor 2022 value needs to be obtained from the JCR database for accurate analysis. Once obtained, its meaning can be contextualized by:

Comparison with other journals: Comparing the ACS Central Science impact factor 2022 to those of other leading chemistry journals (e.g., Journal of the American Chemical Society, Angewandte Chemie, Nature Chemistry) provides a relative assessment of its standing within the field. This comparison should consider the different scopes and publication strategies of competing journals.

Trend analysis: Tracking the ACS Central Science impact factor over time reveals trends in its influence and impact. This longitudinal analysis can uncover patterns reflecting changes in the journal's editorial policies, the evolving landscape of chemical science, and broader shifts in citation practices.

Citation distribution: A deeper dive into the citation data reveals not just the average number of citations but also the distribution of citations among published articles. A skewed distribution, with a few highly cited articles dominating the average, may indicate a less consistent level of influence compared to a journal with a more even citation distribution.

Field-weighted citation impact: The ACS Central Science impact factor 2022 should be examined within the context of its specific field(s) of research. Different fields may have different citation norms, and a direct comparison across fields may be misleading.

4. Implications of the Impact Factor for Researchers

The ACS Central Science impact factor 2022 carries significant implications for researchers seeking publication venues. A high impact factor generally enhances the visibility and perceived impact of published research, potentially leading to increased citations, greater career advancement opportunities, and more favorable funding prospects. However, researchers should avoid fixating solely on the impact factor and consider other factors, such as the journal's suitability for their research, the quality of peer review, and the journal's accessibility.

5. Implications for Funding Agencies and Research Evaluation

Funding agencies often use journal impact factors, including the ACS Central Science impact factor 2022, as one metric for evaluating research proposals and assessing the impact of funded research. While impact factors can provide a useful, albeit imperfect, indicator of a journal's influence, reliance on a single metric like the impact factor can lead to biased and potentially unfair evaluations. A more holistic approach is necessary, considering various factors like the quality of research, the novelty of findings, and the broader societal impact of the work.

6. Limitations of Impact Factor Metrics

It's critical to acknowledge the limitations inherent in using impact factor metrics. The impact factor is a lagging indicator, meaning it reflects past performance rather than future potential. Furthermore, various factors, including citation biases, self-citation, and differences in citation practices across fields, can influence the impact factor, making direct comparisons across journals and fields challenging. Over-reliance on the impact factor can distort research priorities and incentivize publishing strategies that prioritize quantity over quality.

7. The Open Access Model and its Influence

ACS Central Science operates under an open-access model, making its publications freely available to the public. This contributes to increased visibility and accessibility of research findings. However, the open-access model also involves publication fees, which may impact the ability of researchers from under-resourced institutions to publish their work.

8. Conclusion

The ACS Central Science impact factor 2022 provides valuable information about the journal's influence within the chemical science community. However,

its interpretation requires careful consideration of its context, limitations, and broader implications for researchers, funding agencies, and the scientific publishing landscape. A balanced approach, incorporating multiple metrics and a holistic evaluation of research quality, is crucial for a fair and accurate assessment of scientific contributions. Simply focusing on the ACS Central Science Impact Factor 2022 in isolation can be misleading and neglect the richer picture of the journal's significance and its role in advancing chemical science.

FAQs

1. What is the exact ACS Central Science Impact Factor for 2022? The precise value must be obtained from the current Journal Citation Reports (JCR) database published by Clarivate Analytics. This analysis cannot provide the specific number, as it changes annually.
1. How does the ACS Central Science Impact Factor compare to other top chemistry journals? A direct comparison requires access to the JCR and depends on the specific year's data. However, generally, ACS Central Science aims for high impact but will likely fall within a specific range of similar journals, though not necessarily at the absolute top.
1. Is a high impact factor the only criterion for assessing a journal's quality? No, other factors like the reputation of the editorial board, the rigor of peer review, and the journal's scope and suitability for specific research areas are equally, if not more, important.
1. How does the open-access model of ACS Central Science influence its impact factor? Open access potentially increases visibility and citation rates, possibly boosting the impact factor. However, other factors might still outweigh this.
1. Can the ACS Central Science Impact Factor be manipulated? While intentional manipulation is unlikely, factors influencing citation behavior can indirectly affect the impact factor, highlighting the need for caution in interpreting the metric.

1. What are the potential biases in using impact factors for research evaluation? Several biases exist, such as citation bias (favoring certain types of research or journals), self-citation, and field-specific differences in citation practices.
1. How can researchers maximize their chances of publication in ACS Central Science? Focusing on high-quality, novel, and broadly impactful research with clear significance is crucial, aligning with the journal's editorial priorities.
1. What are the alternatives to using impact factors for research evaluation? Alternative metrics include altmetrics (social media mentions, downloads, etc.), citation analysis beyond the average impact factor, and expert peer review.
1. Does a high ACS Central Science Impact Factor guarantee funding success? No, while a high impact factor can be helpful, funding decisions rely on a holistic evaluation of the research proposal, including its novelty, potential impact, and the researcher's track record.

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1. "Alternative metrics for evaluating research impact: moving beyond the impact factor": This article discusses alternative metrics to evaluate research, highlighting their strengths and limitations compared to the impact factor.
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1. "ACS Central Science's editorial policies and their influence on publication decisions": This article delves into the specific editorial policies of ACS Central Science and how those policies affect publication decisions and the journal's overall impact.
1. "A longitudinal analysis of ACS Central Science's impact factor over time": This article will analyze the trend of ACS Central Science's impact factor over time, examining factors contributing to any observed changes.

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acs central science impact factor 2022: *Nanodroplets* Zhiming M. Wang, 2014-01-08 Nanodroplets, the basis of complex and advanced nanostructures such as quantum rings, quantum dots and quantum dot clusters for future electronic and optoelectronic materials and devices, have attracted the interdisciplinary interest of chemists, physicists and engineers. This book combines experimental and theoretical analyses of nanosized droplets which reveal many attractive properties. Coverage includes nanodroplet synthesis, structure, unique behaviors and their nanofabrication, including chapters on focused ion beam, atomic force microscopy, molecular beam epitaxy and the vapor-liquid-solid route. Particular emphasis is given to the behavior of metallic nanodroplets, water nanodroplets and nanodroplets in polymer and metamaterial nanocomposites. The contributions of leading scientists and their research groups will provide readers with deeper insight into the chemical and physical mechanisms, properties, and potential applications of various nanodroplets.

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drug delivery Nanoparticles for diagnosis and/or treatment of Alzheimers disease Hierarchical modelling of elastic behavior of human dental tissue Biodegradable porous hydrogels Hydrogels in tissue engineering, drug delivery, and wound care Modified natural zeolites Supramolecular hydrogels based on cyclodextrin poly(pseudo)rotaxane Polyhydroxyalkanoate-based biomaterials Biomimetic molecularly imprinted polymers

acs central science impact factor 2022: Polymer Particles Masayoshi Okubo, 2005-02-10 In this special volume on polymer particles, recent trends and developments in the synthesis of nano- to micron-sized polymer particles by radical polymerization (Emulsion, Miniemulsion, Microemulsion, and Dispersion Polymerizations) of vinyl monomers in environmentally friendly heterogeneous aqueous and supercritical carbon dioxide fluid media are reviewed by prominent worldwide researchers. In addition to the important challenges and possibilities with regards to design and preparation of functionalized polymer particles of controlled size, the topics described are of great current interest due to the increased awareness of environmental issues.

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acs central science impact factor 2022: Organometallic Reactions Ernest I. Becker, Minoru Tsutsui, 1971

acs central science impact factor 2022: Evaluation of the Department of Veterans Affairs Mental Health Services National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Health Care Services, Committee to Evaluate the Department of Veterans Affairs Mental Health Services, 2018-03-29 Approximately 4 million U.S. service members took part in the wars in Afghanistan and Iraq. Shortly after troops started returning from their deployments, some active-duty service members and veterans began experiencing mental health problems. Given the stressors associated with war, it is not surprising that some service members developed such mental health conditions as posttraumatic stress disorder, depression, and substance use disorder. Subsequent epidemiologic studies conducted on military and veteran populations that served in the operations in Afghanistan and Iraq provided scientific evidence that those who fought were in fact being diagnosed with mental illnesses and experiencing mental health-related outcomes—in particular, suicide—at a higher rate than the general population. This report provides a comprehensive assessment of the quality, capacity, and access to mental health care services for veterans who served in the Armed Forces in Operation Enduring Freedom/Operation Iraqi Freedom/Operation New Dawn. It includes an analysis of not only the quality and capacity of mental health care services within the Department of Veterans Affairs, but also barriers faced by patients in utilizing those services.

acs central science impact factor 2022: The Future of the Nursing Workforce in the United States Peter Buerhaus, Douglas Staiger, David Auerbach, 2009-10-06 The Future of the Nursing Workforce in the United States: Data, Trends and Implications provides a timely, comprehensive, and integrated body of data supported by rich discussion of the forces shaping the nursing workforce in the US. Using plain, jargon free language, the book identifies and describes the key changes in the current nursing workforce and provide insights about what is likely to develop in the future. The Future of the Nursing Workforce offers an in-depth discussion of specific policy options to help employers, educators, and policymakers design and implement actions aimed at strengthening the current and future RN workforce. The only book of its kind, this renowned author team presents extensive data, exhibits and tables on the nurse labor market, how the composition of the workforce is evolving, changes occurring in the work environment where nurses practice their profession, and on the publics opinion of the nursing profession.

acs central science impact factor 2022: Radical SAM Enzymes , 2018-08-09 Radical SAM

Enzymes, Volume 606, the latest release in the Methods in Enzymology series, highlights new advances in the field, with this new volume presenting interesting chapters on the Characterization of the glycy radical enzyme choline trimethylamine-lyase and its radical S-adenosylmethionine activating enzyme, Diphathimide biosynthesis, Radical SAM glycy radical activating enzymes, Radical SAM enzyme BioB in the biosynthesis of biotin, Biogenesis of the PQQ cofactor, Role of MoaAC in the biogenesis of the molybdenum cofactor, Biosynthesis of the nitrogenase cofactor, Bioinformatics of the radical SAM superfamily, The involvement of SAM radical enzymes in the biosynthesis of methanogenic coenzymes, methanopterin and coenzyme F420, and more.

acs central science impact factor 2022: Data Science for Nano Image Analysis Chiwoo Park, Yu Ding, 2021-07-31 This book combines two distinctive topics: data science/image analysis and materials science. The purpose of this book is to show what type of nano material problems can be better solved by which set of data science methods. The majority of material science research is thus far carried out by domain-specific experts in material engineering, chemistry/chemical engineering, and mechanical & aerospace engineering. The book could benefit materials scientists and manufacturing engineers who were not exposed to systematic data science training while in schools, or data scientists in computer science or statistics disciplines who want to work on material image problems or contribute to materials discovery and optimization. This book provides in-depth discussions of how data science and operations research methods can help and improve nano image analysis, automating the otherwise manual and time-consuming operations for material engineering and enhancing decision making for nano material exploration. A broad set of data science methods are covered, including the representations of images, shape analysis, image pattern analysis, and analysis of streaming images, change points detection, graphical methods, and real-time dynamic modeling and object tracking. The data science methods are described in the context of nano image applications, with specific material science case studies.

acs central science impact factor 2022: Cell-Free Gene Expression Ashty S. Karim, Michael C. Jewett, 2022-01-06 This detailed volume explores perspectives and methods using cell-free expression (CFE) to enable next-generation synthetic biology applications. The first section focuses on tools for CFE systems, including a primer on DNA handling and reproducibility, as well as methods for cell extract preparation from diverse organisms and enabling high-throughput cell-free experimentation. The second section provides an array of applications for CFE systems, such as metabolic engineering, membrane-based and encapsulated CFE, cell-free sensing and detection, and educational kits. Written for the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Cell-Free Gene Expression: Methods and Protocols serves as an ideal guide for researchers seeking technical methods to current aspects of CFE and related applications.

acs central science impact factor 2022: Reproducibility and Replicability in Science National Academies of Sciences, Engineering, and Medicine, Policy and Global Affairs, Committee on Science, Engineering, Medicine, and Public Policy, Board on Research Data and Information, Division on Engineering and Physical Sciences, Committee on Applied and Theoretical Statistics, Board on Mathematical Sciences and Analytics, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Board on Behavioral, Cognitive, and Sensory Sciences, Committee on Reproducibility and Replicability in Science, 2019-10-20 One of the pathways by which the scientific community confirms the validity of a new scientific discovery is by repeating the research that produced it. When a scientific effort fails to independently confirm the computations or results of a previous study, some fear that it may be a symptom of a lack of rigor in science, while others argue that such an observed inconsistency can be an important precursor to new discovery. Concerns about reproducibility and replicability have been expressed in both scientific and popular media. As these concerns came to light, Congress requested that the National Academies of Sciences, Engineering, and Medicine

conduct a study to assess the extent of issues related to reproducibility and replicability and to offer recommendations for improving rigor and transparency in scientific research. Reproducibility and Replicability in Science defines reproducibility and replicability and examines the factors that may lead to non-reproducibility and non-replicability in research. Unlike the typical expectation of reproducibility between two computations, expectations about replicability are more nuanced, and in some cases a lack of replicability can aid the process of scientific discovery. This report provides recommendations to researchers, academic institutions, journals, and funders on steps they can take to improve reproducibility and replicability in science.

acs central science impact factor 2022: Coronary Primary Prevention Trial , 1984

acs central science impact factor 2022: Computational Materials, Chemistry, and Biochemistry: From Bold Initiatives to the Last Mile Sadasivan Shankar, Richard Muller, Thom Dunning, Guan Hua Chen, 2021-01-25 This book provides a broad and nuanced overview of the achievements and legacy of Professor William ("Bill") Goddard in the field of computational materials and molecular science. Leading researchers from around the globe discuss Goddard's work and its lasting impacts, which can be seen in today's cutting-edge chemistry, materials science, and biology techniques. Each section of the book closes with an outline of the prospects for future developments. In the course of a career spanning more than 50 years, Goddard's seminal work has led to dramatic advances in a diverse range of science and engineering fields. Presenting scientific essays and reflections by students, postdoctoral associates, collaborators and colleagues, the book describes the contributions of one of the world's greatest materials and molecular scientists in the context of theory, experimentation, and applications, and examines his legacy in each area, from conceptualization (the first mile) to developments and extensions aimed at applications, and lastly to de novo design (the last mile). Goddard's passion for science, his insights, and his ability to actively engage with his collaborators in bold initiatives is a model for us all. As he enters his second half-century of scientific research and education, this book inspires future generations of students and researchers to employ and extend these powerful techniques and insights to tackle today's critical problems in biology, chemistry, and materials. Examples highlighted in the book include new materials for photocatalysts to convert water and CO₂ into fuels, novel catalysts for the highly selective and active catalysis of alkanes to valuable organics, simulating the chemistry in film growth to develop two-dimensional functional films, and predicting ligand-protein binding and activation to enable the design of targeted drugs with minimal side effects.

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acs central science impact factor 2022: Experimental Researches in Electricity Michael Faraday, 1844

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acs central science impact factor 2022: Nanoscale Assembly Wilhelm T.S. Huck, 2006-07-11 Nanotechnology has received tremendous interest over the last decade, not only from the scientific community but also from a business perspective and from the general public. Although

nanotechnology is still at the largely unexplored frontier of science, it has the potential for extremely exciting technological innovations that will have an enormous impact on areas as diverse as information technology, medicine, energy supply and probably many others. The miniturization of devices and structures will impact the speed of devices and information storage capacity. More importantly, though, nanotechnology should lead to completely new functional devices as nanostructures have fundamentally different physical properties that are governed by quantum effects. When nanometer sized features are fabricated in materials that are currently used in electronic, magnetic, and optical applications, quantum behavior will lead to a set of unprecedented properties. The interactions of nanostructures with biological materials are largely unexplored. Future work in this direction should yield enabling technologies that allows the study and direct manipulation of biological processes at the (sub) cellular level.

acs central science impact factor 2022: The Future of Criminology Rolf Loeber, Brandon C. Welsh, 2012-08-16 The Future of Criminology takes stock of the major advances and developments that have taken place in the past several decades and asks where the field of criminology is headed. In thirty-three brief essays, the field's leading scholars provide their views into the future of what needs to be done in research, policy, and practice in the discipline.

acs central science impact factor 2022: Gap Junctions in the Brain Ekrem Dere, 2012-12-12 Gap junctions between glial cells or neurons are ubiquitously expressed in the mammalian brain and play a role in brain development including cell differentiation, cell migration and survival, and tissue homeostasis, as well as in human diseases including hearing loss, neuropathies, epilepsy, brain trauma, and cardiovascular disease. This volume provides neuroscience researchers and students with a single source for information covering the physiological, behavioral and pathophysiological roles of gap junctions in the brain. In addition, the book also discusses human disease conditions associated with mutations in single gap junction connexion genes, making it applicable to clinicians doing translational research. Finally, it includes reviews of pharmacological studies with gap junction blockers and openers, summarizing information obtained from phenotyping gap junctions mouse mutants. - Serves as the most current and comprehensive reference available covering the physiological, behavioral and pathophysiological roles of gap junctions in the brain - Chapters summarize knowledge of the basic physiology of gap junctions in the brain, as well as of human disease conditions associated with mutations in single gap junction connexin genes - Includes reviews of pharmacological studies with gap junction blockers and openers, summarizing information obtained from phenotyping gap junctions mouse mutants

acs central science impact factor 2022: Energy, Sustainability and the Environment Fereidoon Sioshansi, 2011-06-02 The complexity of carbon reduction and economic sustainability is significantly complicated by competing aspects of socioeconomic practices as well as legislative, regulatory, and scientific requirements and protocols. An easy to read and understand guide, Sioshansi, along with an international group of contributors, moves through the maze of carbon reduction methods and technologies, providing steps and insights to meet carbon reduction requirements and maintaining the health and welfare of the firm. The book's three part treatment is based on a clear and rigorous exposition of a wide range of options to reduce the carbon footprint Part 1 of the book, Challenge of Sustainability, examines the fundamental drivers of energy demand - economic growth, the need for basic energy services, and the interdependence of economic, political, environmental, social, equity, legacy and policy issues. Part 2 of the book, Technological Solutions, examines how energy can be used to support basic energy service needs of homes, commercial and industrial facilities and for other applications. Part 3 of the book, case studies, covers a number of innovative projects, initiatives, concepts or self-imposed targets in different parts of the world with the aim of significantly reducing energy use and carbon footprint of a company, a community, a city or an entire country. There was a widespread recognition among environmental engineers and energy economist of the importance of carbon reduction while sustaining the firm's economic growth. The only book to bring together both subjects into one easy to understand

reference, Carbon Reduction and Economic Sustainability not only clearly explains which option has the lowest energy/carbon footprint but also which option would better suit the business in question. This includes carbon reduction for residential, transport, industrial and public sectors. - The only book to clearly explain the economic and environmental engineering aspects of carbon reduction. - Case studies taken from a number of international projects. - Carbon reduction options for all sectors of society. - The role of the planning system in carbon reduction.

acs central science impact factor 2022: *Fluoropolymers 1* Gareth G. Hougham, Patrick E. Cassidy, Ken Johns, Theodore Davidson, 2006-04-11 The fluorine atom, by virtue of its electronegativity, size, and bond strength with carbon, can be used to create compounds with remarkable properties. Small molecules containing fluorine have many positive impacts on everyday life of which blood substitutes, pharmaceuticals, and surface modifiers are only a few examples. Fluoropolymers, too, while traditionally associated with extreme hi- performance applications have found their way into our homes, our clothing, and even our language. A recent American president was often likened to the tribology of PTFE. Since the serendipitous discovery of Teflon at the Dupont Jackson Laboratory in 1938, fluoropolymers have grown steadily in technological and marketplace importance. New synthetic fluorine chemistry, new processes, and new appreciation of the mechanisms by which fluorine imparts exceptional properties all contribute to accelerating growth in fluoropolymers. There are many stories of harrowing close calls in the fluorine chemistry lab, especially from the early years, and synthetic challenges at times remain daunting. But, fortunately, modern techniques and facilities have enabled significant strides toward taming both the hazards and synthetic uncertainties. In contrast to past environmental problems associated with fluorocarbon refrigerants, the exceptional properties of fluorine in polymers have great environmental value. Some fluoropolymers are enabling green technologies such as hydrogen fuel cells for automobiles and oxygen-selective membranes for cleaner diesel combustion.

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acs central science impact factor 2022: *Applications of Polymers* Raymond Seymour, 2012-12-06 Natural polymers, such as proteins, starch, cellulose, hevea rubber, and gum which have been available for centuries, have been applied as materials for food, leather, sizings, fibers, structures, waterproofing, and coatings. During the past century, the use of both natural and synthetic polymers has been expanded to include more intricate applications, such as membranes, foams, medicinals, conductors, insulators, fibers, films, packaging and applications requiring high modulus at elevated temperatures. The topics in this symposium which are summarized in this book are illustrative of some of the myriad applications of these ubiquitous materials. As stated in forecast in the last chapter in this book, it is certain that revolutionary applications of polymers will occur during the next decades. Hopefully, information presented in other chapters in this book will catalyze some of these anticipated applications. It is appropriate that these reports were presented at an American Chemical Society Polymer Science and Engineering Division Award Symposium honoring Dr. O.A. Battista who has gratifying to note that Phillips Petroleum Company, which has

paved the way in applications of many new polymers, is the sponsor of this important award. We are all cheerfully expressing our thanks to this corporate sponsor and to Distinguished Professor Raymond B. Seymour of the University of Southern Mississippi who served as the organizer of this symposium and editor of this important book.

acs central science impact factor 2022: Biological & Agricultural Index, 1919

acs central science impact factor 2022: Green Chemistry Paul T. Anastas, John Charles Warner, 2000-01-01 'As the summary of a vision, the book is brilliant. One can feel the enthusiasm of the authors throughout...I see it as a vehicle for initiating a fruitful dialogue between chemical producers and regulatory enforcers without the confrontation, which often characterizes such interactions.' -Martyn Poliakoff, Green Chemistry, February 'It is an introductory text taking a broad view and integrating a wide range of topics including synthetic methodologies, alternative solvents and catalysts, biosynthesis and alternative feedstocks. There are exercises for students and the last chapter deals with future trends' Aslib

acs central science impact factor 2022: Cannabis and Khat in Drug Discovery Andrew G. Mtewa, Tadele Mekuriya, Paul E. Alele, John O. Igoli, Fanuel Lampiao, 2024-08-09 Cannabis and Khat in Drug Discovery: The Discovery Pipeline and the Endocannabinoid System provides comprehensive coverage of two important psychoactive plants: Khat and Cannabis. Initial research has found that compounds and derivatives from Cannabis and Khat are found to have promising properties that can be used for the discovery, design and development of potential drug leads against various diseases. This book extensively discusses the drug discovery and allied sciences of these compounds in the drug discovery pipeline, including basic research and computer aided modeling in ligand-drug interactions and their interactions with the endocannabinoid system. Categorized into sections including, chemical analyses and bioassays, medicinal chemistry, chemical biology and pharmacology, clinical applications, and policy and regulations, this book covers the methods and protocols involved and will be of interest to students, researchers, policymakers and all those involved in drug discovery research. - Covers the medicinal chemistry, pharmacology and biological chemistry of cannabis, khat, their constituent compounds and metabolites - Presents both the adverse and the beneficial entities to health and drug discovery - Includes detailed methods and protocol information to allow easy replication and application

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