

acs central science impact factor

ACS Central Science Impact Factor: A Detailed Analysis

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Publisher: This analysis is self-published (for demonstration purposes). A real-world publication would be from a reputable publisher like Clarivate Analytics (producers of the Journal Citation Reports), Elsevier (publishers of numerous bibliometrics databases), or a scholarly journal focused on library and information science. These publishers hold significant authority on the subject due to their extensive data collection and analysis capabilities concerning journal impact factors and citation databases.

Editor: Dr. Robert Davis, PhD (Fictional Editor for demonstration purposes). Dr. Davis is a professor of Chemistry and holds a PhD in Chemical Engineering with expertise in peer review processes and scientific publishing. His experience in journal editorial boards adds significant credibility to the analysis.

A Historical Context of the ACS Central Science Impact Factor

ACS Central Science, launched in 2015 by the American Chemical Society (ACS), quickly established itself as a leading open-access journal publishing high-impact research across the chemical sciences. Understanding its impact factor necessitates a look at its evolution and the broader context of journal metrics. Initially, the acs central science impact factor was not immediately available as it takes several years to build a sufficient citation base for accurate calculation. Impact factors, calculated by Clarivate Analytics' Journal Citation Reports (JCR), rely on the number of citations received by articles published in a journal within a given period (typically two years) divided by the number of citable items published during that same period.

The early years saw a rapid growth in submissions and publications, reflecting the attractiveness of the journal's open-access model and its commitment to publishing high-quality, multidisciplinary research. This attracted a substantial readership and consequently, citations, steadily increasing the acs central science impact factor year-on-year. The initial years are crucial in establishing the journal's reputation and forming the foundation for its future impact. The initial lower acs central science

impact factor, if available earlier, would not accurately reflect the potential of the journal. The steady increase signifies the journal's success in attracting high-quality research and gaining recognition within the scientific community.

The Current Relevance of the ACS Central Science Impact Factor

The ACS Central Science impact factor, currently holding a position among the top-tier chemistry journals, serves as a crucial metric for several stakeholders. For researchers, it signifies the prestige and potential reach of publishing their work in the journal. A high impact factor suggests greater visibility and potential for citations, enhancing their career prospects and research funding opportunities. For institutions, the journal's impact factor influences their rankings and reputation within the global academic landscape. The ACS Central Science impact factor also plays a significant role in assessing the overall quality and influence of research output.

However, it's crucial to acknowledge the limitations of relying solely on the ACS Central Science impact factor. While it provides a useful benchmark, it's not a perfect indicator of the journal's overall value or the quality of individual articles. The limitations include:

Subject Bias: The impact factor is influenced by the subject area. A highly cited paper in a niche field may not achieve the same impact factor as a paper in a broader area.

Citation Practices: Citation patterns are evolving, influenced by factors such as open access and self-citation.

Journal Age: Newer journals take time to accumulate citations and establish a high impact factor.

Article Type: Review articles and meta-analyses tend to receive more citations than original research articles, potentially skewing the impact factor.

Gaming the System: While rare, there are instances of manipulation to artificially inflate impact factors.

Therefore, while the ACS Central Science impact factor is an important metric to consider, it's critical to evaluate the journal's quality holistically, taking into account factors such as editorial rigor, peer-review processes, and the overall impact of published research beyond mere citation counts.

Analyzing Trends in the ACS Central Science Impact Factor

Analyzing the historical trend of the ACS Central Science impact factor provides valuable insights. Examining year-over-year changes reveals the journal's growth trajectory and its position relative to competitors. A consistent upward trend signifies sustained success and increasing recognition. However, periods of stagnation or decline may indicate the need for strategic adjustments to enhance the journal's impact. Furthermore, comparing the ACS Central Science impact factor to those of similar journals within the chemical sciences allows for a more nuanced understanding of its competitive standing. This comparative analysis provides a broader context and avoids overreliance on a single metric.

Conclusion

The ACS Central Science impact factor is a significant metric, reflecting the journal's influence and prestige within the chemical sciences. While it serves as a valuable benchmark for researchers, institutions, and other stakeholders, it's essential to recognize its limitations and avoid relying solely on it for assessment. A comprehensive evaluation of the journal should consider a range of factors, including editorial policies, peer review processes, the impact of published research, and its contribution to the broader scientific community. Future studies should investigate the evolution of the ACS Central Science impact factor in relation to broader trends in scientific publishing, open access, and citation practices.

FAQs

1. What is the current ACS Central Science impact factor? The current impact factor varies year to year and should be checked on the Journal Citation Reports (JCR) website.
1. How is the ACS Central Science impact factor calculated? It's calculated by Clarivate Analytics using the number of citations received by articles published in the journal over the past two years, divided by the number of citable items published during that period.
1. Is the ACS Central Science impact factor a reliable measure of journal quality? It's a useful indicator but has limitations. It shouldn't be the sole factor in assessing journal quality.
1. How does the ACS Central Science impact factor compare to other chemistry journals? Its ranking varies yearly; consult the JCR for a comparison with other leading chemistry journals.
1. What are the implications of a high ACS Central Science impact factor for researchers? It suggests greater visibility for their work and potentially more citations, enhancing their career prospects.
1. How does open access affect the ACS Central Science impact factor? Open access can potentially increase readership and citations, positively influencing the impact factor.

1. What are the criticisms of using impact factors like the one for ACS Central Science? Critics argue that impact factors can be manipulated and don't fully reflect the quality or significance of individual articles.
1. Are there any alternatives to using the ACS Central Science impact factor for assessing journal quality? Yes, altmetrics, citation analysis beyond the two-year window, and qualitative assessments of editorial rigor are alternatives.
1. How often is the ACS Central Science impact factor updated? The impact factor is updated annually by Clarivate Analytics in the Journal Citation Reports.

Related Articles

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1. "Open Access and the Evolution of Journal Impact": This study investigates the relationship between open access publishing and journal impact factors.
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acs central science impact factor: *ACS Style Guide* Anne M. Coghill, Lorrin R. Garson, 2006 In the time since the second edition of The ACS Style Guide was published, the rapid growth of electronic communication has dramatically changed the scientific, technical, and medical (STM) publication world. This dynamic mode of dissemination is enabling scientists, engineers, and medical practitioners all over the world to obtain and transmit information quickly and easily. An essential constant in this changing environment is the requirement that information remain accurate, clear, unambiguous, and ethically sound. This extensive revision of The ACS Style Guide thoroughly examines electronic tools now available to assist STM writers in preparing manuscripts and communicating with publishers. Valuable updates include discussions of markup languages, citation of electronic sources, online submission of manuscripts, and preparation of figures, tables, and structures. In keeping current with the changing environment, this edition also contains references to many resources on the internet. With this wealth of new information, The ACS Style Guide's Third Edition continues its long tradition of providing invaluable insight on ethics in scientific communication, the editorial process, copyright, conventions in chemistry, grammar, punctuation, spelling, and writing style for any STM author, reviewer, or editor. The Third Edition is the definitive source for all information needed to write, review, submit, and edit scholarly and scientific manuscripts.

acs central science impact factor: *Silent Spring* Rachel Carson, 2002 The essential, cornerstone book of modern environmentalism is now offered in a handsome 40th anniversary edition which features a new Introduction by activist Terry Tempest Williams and a new Afterword by Carson biographer Linda Lear.

acs central science impact factor: *Electropolymerization* Ewa Schab-Balcerzak, 2011-12-22 In recent years, great focus has been placed upon polymer thin films. These polymer thin films are important in many technological applications, ranging from coatings and adhesives to organic electronic devices, including sensors and detectors. Electrochemical polymerization is preferable, especially if the polymeric product is intended for use as polymer thin films, because electrogeneration allows fine control over the film thickness, an important parameter for fabrication

of devices. Moreover, it was demonstrated that it is possible to modify the material properties by parameter control of the electrodeposition process. Electrochemistry is an excellent tool, not only for synthesis, but also for characterization and application of various types of materials. This book provides a timely overview of a current state of knowledge regarding the use of electropolymerization for new materials preparation, including conducting polymers and various possibilities of applications.

acs central science impact factor: 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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acs central science impact factor: Green Chemistry Education Paul T. Anastas, Irvin Jay Levy, Kathryn E. Parent, 2009 Green Chemistry has brought about dramatic changes in the teaching of chemistry that have resulted in increased student excitement for the subject of chemistry, new lecture materials, new laboratory experiments, and a world-wide community of Green Chemistry teachers. This book features the cutting edge of this advance in the teaching of chemistry.

acs central science impact factor: Lignin Valorization Gregg T. Beckham, 2018-03-29 Chapters will specifically focus on the production of fuels and chemicals from lignin.--Page [4] of cover.

acs central science impact factor: 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: Heterogeneous Photocatalysis M. Schiavello, 1997-10-09 Photocatalysis is a reaction which is accelerated by light while a heterogeneous reaction consists of two phases (a solid and a liquid for example). Heterogeneous Photocatalysis is a fast developing science which to date has not been fully detailed in a monograph. This title discusses the basic principles of heterogeneous photocatalysis and describes the bulk and surface properties of semiconductors. Applications of various types of photoreactions are described and the problems related to the modeling and design of photoreactors are covered.

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

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

acs central science impact factor: **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 glycyl radical enzyme choline trimethylamine-lyase and its radical S-adenosylmethionine activating enzyme, Diphathimide biosynthesis, Radical SAM glycyl 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: *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: *The Athena Factor*, 2008

acs central science impact factor: Thermometry at the Nanoscale Luís Dias Carlos, Fernando Palacio, Fernando Palacio Parada, 2016 Covers the fundamentals of measuring temperature at the nanoscale, luminescence-based and non-luminescence based thermometry techniques, and applications.

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acs central science impact factor: The Global Benefits of Open Research Martyn Rittman, 2018-11-20 The 2018 MPDI Writing Prize invited early stage researchers who are not native English speakers to write on the subject of the global benefits of open research. Six prizes were awarded, however there were many more entries. This book collates many of those entries and contains inspiring, thought-provoking and original viewpoints of open science through the eyes of those conducting research on a daily basis

acs central science impact factor: 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.

acs central science impact factor: Implementing Open Access Mandates in Europe Birgit Schmidt, Iryna Kuchma, 2012 The implementation of open access policies in Europe is a socio-technical undertaking whereby a wide range of stakeholders work together to bring out the benefits of open access for European and global research. This work provides a unique overview of national awareness of open access in 32 European countries involving all EU member states and in addition, Norway, Iceland, Croatia, Switzerland and Turkey. It describes funder and institutional open access mandates in Europe and national strategies to introduce and implement them. An overview of the current European repository infrastructures is given, including institutional and disciplinary repositories, national repository networks, information portals and support networks. This work also outlines OpenAIREplus, a continuation project which aims to widen the scope of OpenAIRE by connecting publications to contextual information, such as research data and funding information. Opportunities for collaboration in order to achieve European and global synergies are also highlighted. The OpenAIRE project, a joint collaboration among 38 partners from 27 European countries, has built up a network of open repositories providing free online access to knowledge produced by researchers receiving grants from the European Commission or the European Research Council. It provides support structures for researchers, operates an electronic infrastructure and a portal to access all user-level services and works with several subject communities. Birgit Schmidt is affiliated with Goettingen State and University Library. Iryna Kuchma is affiliated with EIFL. The implementation of open access policies in Europe is a socio-technical undertaking whereby a wide range of stakeholders work together to bring out the benefits of open access for European and global research. This work provides a unique overview of national awareness of open access in 32 European countries involving all EU member states and in addition, Norway, Iceland, Croatia, Switzerland and Turkey. It describes funder and institutional open access mandates in Europe and national strategies to introduce and implement them. An overview of the current European repository infrastructures is given, including institutional and disciplinary repositories, national repository networks, information portals and support networks. This work also outlines OpenAIREplus, a continuation project which aims to widen the scope of OpenAIRE by connecting publications to contextual info ...

acs central science impact factor: Open Abdomen Federico Coccolini, Rao Ivatury, Michael Sugrue, Luca Ansaloni, 2018-06-06 This book is the first available practical manual on the open abdomen. Practicing physicians, surgeons, anesthesiologists, nurses, and physiotherapists will find in it a ready source of information on all aspects of open abdomen management in a wide variety of settings. The coverage includes, for example, the open abdomen in trauma, intra-abdominal sepsis, and acute pancreatitis, step-by-step descriptions of different techniques with the aid of high-quality color figures, guidance on potential complications and their management, and features of management in different age groups. The book contents illustrate the most recent innovations and drawing upon a thorough and up-to-date literature review. Useful tips and tricks are highlighted, and the book is designed to support in daily decision making. The authors include worldwide opinion leaders in the field, guaranteeing the high scientific value of the content.

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

acs central science impact factor: 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: *Safe Science* National Research Council, Division of Behavioral and Social Sciences and Education, Board on Human-Systems Integration, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Committee on Establishing and Promoting a Culture of Safety in Academic Laboratory Research, 2014-10-08 Recent serious and sometimes fatal accidents in chemical research laboratories at United States universities have driven government agencies, professional societies, industries, and universities themselves to examine the culture of safety in research laboratories. These incidents have triggered a broader discussion of how serious incidents can be prevented in the future and how best to train researchers and emergency personnel to respond appropriately when incidents do occur. As the priority placed on safety increases, many institutions have expressed a desire to go beyond simple compliance with regulations to work toward fostering a strong, positive safety culture: affirming a constant commitment to safety throughout their institutions, while integrating safety as an essential element in the daily work of laboratory researchers. *Safe Science* takes on this challenge. This report examines the culture of safety in research institutions and makes recommendations for university leadership, laboratory researchers, and environmental health and safety professionals to support safety as a core value of their institutions. The report discusses ways to fulfill that commitment through prioritizing funding for safety equipment and training, as well as making safety an ongoing operational priority. A strong, positive safety culture arises not because of a set of rules but because of a constant commitment to safety throughout an organization. Such a culture supports the free exchange of safety information, emphasizes learning and improvement, and assigns greater importance to solving problems than to placing blame. High importance is assigned to safety at all times, not just when it is convenient or does not threaten personal or institutional productivity goals. *Safe Science* will be a guide to make the changes needed at all levels to protect students, researchers, and staff.

acs central science impact factor: Process Intensification David Reay, Colin Ramshaw, Adam Harvey, 2013-06-05 *Process Intensification: Engineering for Efficiency, Sustainability and Flexibility* is the first book to provide a practical working guide to understanding process intensification (PI) and developing successful PI solutions and applications in chemical process, civil, environmental, energy, pharmaceutical, biological, and biochemical systems. Process intensification is a chemical and process design approach that leads to substantially smaller, cleaner, safer, and more energy efficient process technology. It improves process flexibility, product quality, speed to market and inherent safety, with a reduced environmental footprint. This book represents a valuable resource for engineers working with leading-edge process technologies, and those involved research and development of chemical, process, environmental, pharmaceutical, and bioscience systems. - No other reference covers both the technology and application of PI, addressing fundamentals, industry applications, and including a development and implementation guide - Covers hot and high growth topics, including emission prevention, sustainable design, and pinch analysis - World-class authors:

Colin Ramshaw pioneered PI at ICI and is widely credited as the father of the technology

acs central science impact factor: 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.

acs central science impact factor: 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: 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: List of Journals Indexed in Index Medicus National Library of Medicine (U.S.), 1996 Issues for 1977-1979 include also Special List journals being indexed in cooperation with other institutions. Citations from these journals appear in other MEDLARS bibliographies and in MEDLING, but not in Index medicus.

acs central science impact factor: Surgical Treatment René Holzheimer, John A. Mannick, 2001

acs central science impact factor: Na-ion Batteries , 2021-05-11 This book covers both the fundamental and applied aspects of advanced Na-ion batteries (NIB) which have proven to be a potential challenger to Li-ion batteries. Both the chemistry and design of positive and negative electrode materials are examined. In NIB, the electrolyte is also a crucial part of the batteries and the recent research, showing a possible alternative to classical electrolytes - with the development of ionic liquid-based electrolytes - is also explored. Cycling performance in NIB is also strongly associated with the quality of the electrode-electrolyte interface, where electrolyte degradation

takes place; thus, Na-ion Batteries details the recent achievements in furthering knowledge of this interface. Finally, as the ultimate goal is commercialization of this new electrical storage technology, the last chapters are dedicated to the industrial point of view, given by two startup companies, who developed two different NIB chemistries for complementary applications and markets.

acs central science impact factor: Using Computational Methods to Teach Chemical Principles Alexander Grushow, Melissa S. Reeves, 2020-06-15 While computational chemistry methods are usually a research topic of their own, even in the undergraduate curriculum, many methods are becoming part of the mainstream and can be used to appropriately compute chemical parameters that are not easily measured in the undergraduate laboratory. These calculations can be used to help students explore and understand chemical principles and properties. Visualization and animation of structures and properties are also aids in students' exploration of chemistry. This book will focus on the use of computational chemistry as a tool to teach chemical principles in the classroom and the laboratory.

acs central science impact factor: 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 ' Its is an introductory text taking a broad view and intergrating 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: Asymmetric Catalysis B. Bosnich, 1986 Proceedings of the NATO Advanced Research Workshop on Asymmetric Catalysis, Sanibel Island, Florida, USA, January 2-6, 1984

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