

impact factor acs sustainable chemistry & engineering

impact factor acs sustainable chemistry & engineering is a critical metric for researchers, academics, and professionals involved in the fields of sustainable chemistry and engineering. This article explores the significance of the impact factor for ACS Sustainable Chemistry & Engineering, a leading journal published by the American Chemical Society. It delves into how the impact factor reflects the journal's influence, quality, and relevance in advancing sustainable chemical sciences and engineering practices. Additionally, this piece examines factors contributing to the journal's impact factor, its comparison with related journals, and its implications for authors and institutions. Understanding the impact factor acs sustainable chemistry & engineering is essential for making informed decisions about research dissemination and evaluating scholarly contributions. The following sections provide an in-depth analysis of these themes.

- Understanding the Impact Factor of ACS Sustainable Chemistry & Engineering
- Factors Influencing the Impact Factor
- Comparison with Other Journals in Sustainable Chemistry
- Implications of the Impact Factor for Researchers and Institutions
- Strategies to Enhance the Impact Factor

Understanding the Impact Factor of ACS Sustainable Chemistry & Engineering

The impact factor acs sustainable chemistry & engineering serves as a quantitative measure that reflects the average number of citations to recent articles published in the journal. It is widely recognized as an indicator of the journal's prestige, reach, and influence within the scientific community focused on sustainability and chemical engineering. The impact factor is calculated annually by indexing services such as Clarivate Analytics through the Journal Citation Reports (JCR).

Specifically, the impact factor is derived by dividing the number of citations in a given year to articles published in the previous two years by the total number of citable articles published during those years. For ACS Sustainable Chemistry & Engineering, this metric highlights the journal's role in disseminating cutting-edge research and innovative solutions that

address environmental challenges through sustainable chemistry.

Definition and Calculation

The impact factor is calculated using the formula:

1. Count the number of citations in the current year to articles published in the journal during the two preceding years.
2. Divide this number by the total number of “citable items” (such as research articles and reviews) published in the journal over those two years.

This ratio provides a standardized way to compare journals within the same discipline. ACS Sustainable Chemistry & Engineering’s impact factor reflects its ability to attract citations from other researchers, indicating the relevance and quality of its published content.

Importance in Academic Publishing

The impact factor ACS Sustainable Chemistry & Engineering is a key criterion used by authors when selecting journals for manuscript submission. It often influences funding decisions, academic promotions, and institutional rankings. High-impact journals are generally perceived as more selective and rigorous, attracting high-quality research that drives the field forward.

Factors Influencing the Impact Factor

Several elements contribute to the impact factor of ACS Sustainable Chemistry & Engineering. Understanding these factors provides insight into how the journal maintains and enhances its reputation within the scientific community.

Quality and Relevance of Published Research

The scientific rigor, novelty, and applicability of articles published in the journal strongly affect citation rates. Research that addresses pressing sustainability challenges or introduces innovative methodologies tends to garner more citations, thereby boosting the impact factor.

Editorial Policies and Peer Review

The journal’s editorial standards, including a thorough peer-review process,

help ensure that only high-quality manuscripts are published. This selectivity increases the likelihood that articles will be cited by subsequent research, positively influencing the impact factor.

Publication Frequency and Article Types

The number of issues published annually and the mix of article types—such as original research, reviews, and perspectives—also affect citation patterns. Review articles often receive higher citations, contributing significantly to the impact factor.

Visibility and Indexing

ACS Sustainable Chemistry & Engineering's inclusion in major databases and indexing services enhances visibility and accessibility, increasing the probability of citations. Open access options and digital dissemination further expand the journal's reach.

Comparison with Other Journals in Sustainable Chemistry

Evaluating the impact factor of ACS Sustainable Chemistry & Engineering in relation to peer journals provides perspective on its standing and influence within the discipline.

Benchmarking Against Similar Journals

Journals such as Green Chemistry, Journal of Cleaner Production, and Environmental Science & Technology also focus on sustainability and chemical engineering. ACS Sustainable Chemistry & Engineering typically ranks competitively, reflecting its specialized focus and high-quality publications.

Unique Positioning and Scope

While many journals cover broad environmental topics, ACS Sustainable Chemistry & Engineering emphasizes sustainable chemical processes and engineering solutions. This niche focus attracts a targeted audience, contributing to citation patterns that support a strong impact factor.

Implications of the Impact Factor for Researchers and Institutions

The impact factor of ACS Sustainable Chemistry & Engineering has several important implications for various stakeholders in the scientific community.

For Researchers

Publishing in a high-impact journal enhances a researcher's visibility, credibility, and career prospects. The impact factor serves as a proxy for the quality of the research environment and can influence grant funding and collaboration opportunities.

For Academic Institutions

Universities and research centers use journal impact factors to assess research output quality and to benchmark their performance. High-impact publications contribute to institutional prestige and can affect rankings and funding allocations.

For Funding Agencies

Funding bodies often consider the impact factor of journals where applicants publish to evaluate the potential impact and innovation of proposed research projects. ACS Sustainable Chemistry & Engineering's impact factor can therefore play a role in funding decisions.

Strategies to Enhance the Impact Factor

Efforts to improve the impact factor of ACS Sustainable Chemistry & Engineering focus on increasing the quality, visibility, and citation potential of published articles.

Encouraging High-Quality Submissions

The journal actively solicits cutting-edge research and significant review articles that address key challenges in sustainable chemistry and engineering. Special issues and thematic collections attract focused attention and citations.

Improving Accessibility and Dissemination

Utilizing open access publishing options, promoting articles through social media, and indexing in prominent databases broaden the readership and increase the likelihood of citation.

Engaging the Research Community

Hosting webinars, conferences, and collaborations with scientific societies fosters a vibrant community around the journal, encouraging authors and readers to engage deeply with the content.

Maintaining Rigorous Peer Review

Ensuring thorough and timely peer review maintains the journal's reputation for quality, which is fundamental to sustaining and enhancing its impact factor.

- Solicit impactful original research and comprehensive review articles
- Expand open access options to increase article reach
- Enhance digital marketing and social media presence
- Collaborate with academic societies and organize special issues
- Maintain high editorial standards and rigorous peer review

Frequently Asked Questions

What is the current impact factor of ACS Sustainable Chemistry & Engineering?

As of the latest Journal Citation Reports, ACS Sustainable Chemistry & Engineering has an impact factor of approximately 8.4, reflecting its influence in the field of sustainable chemistry and engineering.

How has the impact factor of ACS Sustainable Chemistry & Engineering changed over the past five

years?

The impact factor of ACS Sustainable Chemistry & Engineering has shown a steady increase over the past five years, indicating growing recognition and citation of research published in the journal.

Why is the impact factor important for ACS Sustainable Chemistry & Engineering?

The impact factor is important as it signifies the average number of citations to recent articles published in the journal, serving as a metric for the journal's influence and prestige in sustainable chemistry and engineering research.

How does ACS Sustainable Chemistry & Engineering's impact factor compare to other journals in the field?

ACS Sustainable Chemistry & Engineering typically ranks among the top journals in sustainable chemistry and engineering, with a higher impact factor compared to many other journals in related interdisciplinary fields.

What types of articles contribute most to the impact factor of ACS Sustainable Chemistry & Engineering?

Review articles and original research papers that address innovative and high-impact topics in sustainable chemistry, green processes, and environmental engineering tend to contribute most to the journal's impact factor.

Can the impact factor of ACS Sustainable Chemistry & Engineering influence authors' decisions to publish there?

Yes, many authors consider the impact factor when choosing where to submit their work, as a higher impact factor often correlates with greater visibility and prestige in the scientific community.

How can researchers access the impact factor information for ACS Sustainable Chemistry & Engineering?

Researchers can find the impact factor for ACS Sustainable Chemistry & Engineering in the Journal Citation Reports published annually by Clarivate Analytics, as well as on the journal's official website and publisher's page.

Additional Resources

1. *Sustainable Chemistry and Engineering: Principles and Practice*

This book provides a comprehensive introduction to the principles and practices of sustainable chemistry and engineering. It covers green chemistry concepts, renewable feedstocks, and energy-efficient processes that align with environmental and economic sustainability. The text is designed for researchers and professionals aiming to reduce the environmental impact of chemical manufacturing.

2. *Green Chemistry Metrics: Measuring and Monitoring Sustainable Processes*

Focusing on quantitative tools, this book explores various metrics used to evaluate the sustainability of chemical processes. It discusses impact factor analysis, life cycle assessment, and atom economy as critical measures to guide the development of eco-friendly chemical engineering solutions. Readers will gain practical insights into applying these metrics in research and industry.

3. *Advances in Sustainable Catalysis for Chemical Engineering*

This volume highlights recent breakthroughs in catalysis aimed at enhancing sustainability in chemical reactions. It covers heterogeneous and homogeneous catalysts derived from renewable resources, with case studies demonstrating improved efficiency and reduced waste. The book is essential for those interested in catalytic methods that contribute to sustainable engineering goals.

4. *Renewable Feedstocks in Sustainable Chemical Engineering*

Exploring the transition from fossil-based to renewable raw materials, this book examines bio-based feedstocks and their integration into chemical processes. It discusses challenges such as feedstock variability and process optimization to maximize sustainability. Engineers and chemists will find strategies to innovate within the framework of green chemistry.

5. *Environmental Impact Assessment in Sustainable Chemistry*

Dedicated to methodologies for assessing environmental impacts, this book details frameworks used to evaluate chemical products and processes. It includes chapters on life cycle assessment, toxicity evaluation, and regulatory considerations that influence sustainable chemical engineering practices. The content supports informed decision-making to minimize ecological footprints.

6. *Energy-Efficient Processes in Sustainable Chemical Engineering*

This book addresses the critical role of energy management in creating sustainable chemical processes. It discusses techniques such as process intensification, heat integration, and renewable energy utilization to reduce energy consumption and greenhouse gas emissions. Professionals seeking to optimize energy use in chemical manufacturing will find valuable guidance here.

7. *Waste Minimization and Resource Recovery in Sustainable Chemistry*

Focusing on waste reduction strategies, this text covers innovative

approaches to minimize chemical waste and recover valuable resources. Topics include recycling techniques, by-product valorization, and circular economy principles applied to chemical engineering. The book is a key resource for implementing sustainable waste management practices.

8. *Designing Sustainable Chemical Processes: Tools and Case Studies*

This practical guide presents design methodologies and software tools used to develop sustainable chemical processes. It features real-world case studies that illustrate challenges and solutions in balancing performance, cost, and environmental impact. Engineers and students can learn to apply design thinking aligned with sustainability criteria.

9. *Policy and Regulation for Sustainable Chemistry and Engineering*

Examining the intersection of science, policy, and industry, this book reviews regulatory frameworks that drive sustainable practices in chemistry and engineering. It discusses international standards, incentive programs, and compliance strategies that influence research and development. The book is essential for understanding how policy shapes sustainable innovation.

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can lead to increased productivity, efficiency and accuracy, and thereby reduce the consumption of materials. It then focuses on sample preparation techniques minimising solvent consumption or using alternative solvents, concepts and methods of improving the 'greenness' of instrumental analysis where miniaturization is an important part, separation methods from the perspective of green analytical chemistry and chemometrics approaches, which can reduce or can even remove the need for conventional steps in chemical analysis. Aimed at graduates and novices just entering the field, managers of analytical research laboratories, teachers of analytical chemistry and green public policy makers, this title will be a useful addition to any analytical scientist's library.

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holistic view of the field, blending theory with actionable strategies, and infusing the narrative with innovative solutions. With a focus on sustainability, it underscores the integration of emerging technologies, such as AI and IoT, in optimizing waste management systems. It equips readers with the knowledge to navigate the intricacies of the industry and fosters the adoption of efficient, sustainable waste practices. As we stand on the brink of environmental exigencies, this book calls for action in a more responsible and forward-thinking manner to managing the byproducts of our civilization.

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impact factor acs sustainable chemistry engineering: Ionic Liquid-Based Technologies for Environmental Sustainability Mohammad Jawaid, Akil Ahmad, A. Vijaya Bhaskar Reddy, 2021-12-04 *Ionic Liquid-based Technologies for Environmental Sustainability* explores the range of sustainable and green applications of IL materials achieved in recent years, such as gas solubility, biomass pre-treatment, bio-catalysis, energy storage, gas separation and purification technologies. The book also provides a reference material for future research in IL-based technologies for environmental and energy applications, which are much in-demand due to sustainable, reusable and eco-friendly methods for highly innovative and applied materials. Written by eminent scholars and leading experts from around the world, the book aims to cover the synthesis and characterization of broad range of ionic liquids and their sustainable applications. Chapters provide cutting-edge research with state-of-the-art developments, including the use of IL-based materials for the removal of pharmaceuticals, dyes and value-added metals. - Describes the fundamentals and major applications of ionic liquid materials - Covers up-to-date developments in novel applications of IL materials - Provides practical tips to aid researchers who work on ionic liquid applications

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fertilizers, and biochar to the process Introduces soil fauna as indicators of soil health during Miscanthus phytotechnology application Presents Miscanthus value chain associated with the processing of Miscanthus biomass to different bioproducts While written primarily for faculty, students, research scientists, environmental and agricultural professionals, gardeners, farmers, landowners, and government officials, this book has value for all who are working on phytotechnology projects and phytomining to reduce risk and/or improve soil quality at contaminated sites. Phytotechnology with Biomass Production: Sustainable Management of Contaminated Sites is also a great new resource for those who are new to the topic and want to learn to apply phytotechnologies and biomass production with further conversion into energy and bioproducts.

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evolving academic and industrial environments is at an all-time high. Challenges faced by those championing sustainability and energy solutions include the integration of green hydrogen, a clean and renewable energy carrier, into hybrid energy systems. Ensuring its traceability, certification, and efficient utilization creates an issue that academics, industry experts, and policymakers are struggling to solve. With the increasing importance of green hydrogen in reducing carbon emissions and addressing climate change, the need for a comprehensive guide to navigate this intricate territory is more pressing than ever. The Handbook of Research on Digitalization and Green Hydrogen Production is a groundbreaking book that provides a holistic and innovative approach to the challenges surrounding green hydrogen integration. It serves as a roadmap for academic scholars and industry professionals, providing deep insights into the various facets of green hydrogen, from production and storage to transportation and utilization. This book tackles the safety concerns associated with transporting green hydrogen and explores innovative technologies like Power-to-Gas-to-Power (P2G2P) and the conversion of hydrogen into ammonia. It also highlights the crucial role of standards and security regulations in ensuring the reliability of green hydrogen processes.

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materials. Carbon materials are non-metallic substances composed mainly of organic materials with a wide range of applications. They can be classified into several types, each with unique structures and properties. This book details their preparation methods, physical and chemical properties and characterization, covering carbon quantum dots, carbon nanotubes, graphene, graphite, carbon fibers, carbon spheres and activated carbon. It also explores their applications in catalysis, energy storage and environmental protection. This title will serve as a useful reference for researchers and professionals interested in carbon materials, petrochemicals, coal chemicals, new energy and environmental protection. It will also benefit students and academics in the fields of chemical engineering, energy and environmental protection.

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Satya Eswari Jujavarapu, Krishna Mohan Poluri, 2020-01-28 Covering fundamentals through applications, this book discusses environmentally friendly polymer nanocomposites and alternatives to traditional nanocomposites through detailed reviews of a variety of materials procured from different resources, their synthesis, and applications using alternative green approaches. The text: Describes green polymeric nanocomposites that show greater properties in terms of degradability, biocompatibility, synthesis process, cost effectiveness, mechanical strength, high surface area, nontoxicity, and environmental friendliness Explains the basics of eco-friendly polymer nanocomposites from different natural resources and their chemistry Discusses practical applications that present future directions in the biomedical, pharmaceutical, and automotive industries This book is aimed at scientists, researchers, and academics working in nanotechnology, biomaterials, polymer science, and those studying products derived from eco-friendly nanomaterials.

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Treatment Daniel C. W. Tsang, Yuqing Sun, 2023-07-20 BIOCHAR APPLICATIONS FOR WASTEWATER TREATMENT Comprehensive guide to biochar technology as a novel, cost-effective, and environmentally friendly solution for the treatment of wastewater Biochar Applications for Wastewater Treatment summarizes recent research development on biochar production and emerging applications with a focus on the value-added utilization of biochar technology in wastewater treatment, succinctly summarizing different technologies for biochar production and characterization with an emphasis on feedstock selection and pre-/post- treatment. The text discusses the mechanisms of biochar's various roles in different functions of wastewater treatment and includes the latest research advances in manufacturing optimization and improvements to update the carbonaceous materials with desirable environmental functionalities. Discussion and case studies are incorporated in treating municipal wastewater, industrial wastewater, agricultural wastewater, and stormwater to illustrate and emphasize the promising prospects of biochar technology in the treatment of various wastewater in actual utilization. Perspectives and future research directions of the emerging biochar technology in wastewater treatment are presented to provide insights for the readers and researchers in biochar application in wastewater treatment. Sample topics covered in Biochar Applications for Wastewater Treatment include: Different technologies for biochar production and characterization Adsorption, biofiltration, anaerobic degradation, sludge dewatering and composting, nutrient recovery, advanced oxidation process, and odor control Removal of pharmaceuticals, personal care products, and emerging contaminants Fate and transport in the environment, and life cycle assessment Biochar Applications for Wastewater Treatment is an essential resource for professionals in environmental engineering/sciences, water and waste management, and sustainable environmental development looking for a comprehensive overview of the subject. The text is also valuable for academics interested in wastewater treatment technologies using biochar as a carbon-negative alternative to conventional materials.

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Ram K. Gupta, Tuan Anh Nguyen, 2022-03-28 Conversion of waste into value-added products such as energy transforms a potential environmental problem into a sustainable solution. Energy from Waste: Production and Storage focuses on the conversion of waste from various sources for use in energy production and storage applications. It provides the state-of-the-art in developing advanced

materials and chemicals for energy applications using wastes and discusses the various treatment processes and technologies. Covers synthesis of usable materials from various types of waste and their application in energy production and storage Presents an overview and applications of wastes for green energy production and storage Provides fundamentals of electrochemical behavior and understanding of energy devices such as fuel cells, batteries, supercapacitors, and solar cells Elaborates on advanced technologies used to convert waste into green biochemical energy This work provides new direction to scientists, researchers, and students in materials and chemical engineering and related subjects seeking to sustainable solutions to energy production and waste management.

impact factor acs sustainable chemistry engineering: Transforming Agriculture Residues for Sustainable Development Jaya Arora, Abhishek Joshi, Ramesh C. Ray, 2024-07-02 Agricultural residues are a significant waste product of modern agriculture. These residues mainly include crop residues, industrial processing wastes, livestock wastes, and fruit and vegetable wastes and are usually left to decompose, leading to environmental degradation and health hazards. However, with the growing demand for sustainable agriculture practices, there is a need to find innovative ways to utilize these residues. Transforming Agriculture Residues for Sustainable Development: From Waste to Wealth comprehensively explores the potential of agriculture waste valorization, showcasing innovative technologies and applications that meet the challenges of converting waste materials into valuable resources. By addressing various aspects of the agricultural waste-to-wealth paradigm, this invaluable guide will be helpful for researchers, policymakers, and industry professionals seeking sustainable solutions for agricultural residue management and the transition to a more circular economy.

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