

impact factor of acs sustainable chemistry & engineering

impact factor of acs sustainable chemistry & engineering is a critical metric that reflects the journal's influence and prestige within the scientific community. This article explores the significance of the impact factor, its calculation methods, and how it applies specifically to ACS Sustainable Chemistry & Engineering. As a leading publication in the field of sustainable chemistry, understanding the journal's impact factor provides insight into its relevance, citation frequency, and role in advancing green chemistry. The discussion will also cover the factors influencing the impact factor, comparisons with similar journals, and implications for researchers seeking to publish in this domain. By examining these aspects, this article offers a comprehensive overview of the impact factor's role in shaping sustainable chemistry research dissemination.

- Understanding the Impact Factor
- Calculation of the Impact Factor for ACS Sustainable Chemistry & Engineering
- Significance of the Impact Factor in Sustainable Chemistry
- Factors Influencing the Impact Factor of ACS Sustainable Chemistry & Engineering
- Comparison with Other Journals in the Field
- Implications for Researchers and Authors

Understanding the Impact Factor

The impact factor is a widely recognized metric used to evaluate the importance and influence of academic journals. It represents the average number of citations received per paper published in a journal during the preceding two years. Originating from the Journal Citation Reports (JCR) database, the impact factor serves as an indicator of a journal's visibility, reputation, and scholarly impact. For researchers, institutions, and funding agencies, the impact factor provides a quantitative measure to assess the quality and reach of published research.

Definition and Purpose

The impact factor quantifies how often, on average, articles from a specific journal are cited within a particular timeframe, usually two years. This metric helps to distinguish highly influential journals from those with less recognition. It is commonly used in academic evaluations, tenure decisions, and grant applications to gauge the prominence of research outputs.

Limitations of the Impact Factor

While the impact factor is a valuable tool, it has limitations. It does not account for the quality of individual articles, may be skewed by a few highly cited papers, and varies significantly across disciplines. Therefore, it should be interpreted alongside other metrics and qualitative assessments.

Calculation of the Impact Factor for ACS Sustainable Chemistry & Engineering

The impact factor of ACS Sustainable Chemistry & Engineering is calculated based on the number of citations received by articles published in the journal during the previous two years, divided by the total number of citable articles published in those years. This calculation is performed annually and published in the Journal Citation Reports.

Data Sources and Time Frame

The calculation relies on citation data from indexed publications within the Web of Science database. Only articles categorized as citable—such as research articles, reviews, and proceedings papers—are included. Editorials, letters, and news items are typically excluded from the denominator to ensure accuracy.

Recent Impact Factor Trends

ACS Sustainable Chemistry & Engineering has demonstrated a consistent upward trend in its impact factor, reflecting its growing influence in the field of sustainable chemical research. This trend highlights the journal's success in attracting high-quality, widely cited research focused on sustainable technologies and green chemistry innovations.

Significance of the Impact Factor in Sustainable Chemistry

The impact factor of ACS Sustainable Chemistry & Engineering serves as a benchmark for excellence in sustainable chemistry publications. It signals the journal's role in disseminating cutting-edge research that addresses environmental challenges through chemical sciences.

Driving Innovation and Research Quality

A higher impact factor often correlates with rigorous peer review standards and publication of impactful studies. This encourages researchers to submit their best work to the journal, fostering an environment of continuous scientific advancement in sustainability.

Enhancing Visibility and Collaboration

Journals with strong impact factors tend to attract wider readership and citations, increasing the visibility of published research. This can facilitate interdisciplinary collaborations and accelerate the adoption of sustainable chemical processes and materials.

Factors Influencing the Impact Factor of ACS Sustainable Chemistry & Engineering

Several factors contribute to the fluctuations and overall level of the impact factor for ACS Sustainable Chemistry & Engineering. Understanding these elements helps contextualize the metric and its implications for the journal.

Quality and Relevance of Published Articles

Publishing innovative, well-conducted research that addresses pressing sustainability issues increases the likelihood of citations, thus positively impacting the journal's impact factor.

Editorial Policies and Peer Review

Strict editorial standards and a thorough peer review process ensure that only high-caliber manuscripts are published, enhancing the journal's reputation and citation rates.

Special Issues and Review Articles

Special themed issues and comprehensive review articles often receive higher citations and can significantly boost the impact factor within a given year.

Research Community Engagement

Active promotion of published content through conferences, social media, and academic networks can increase article visibility and citation potential.

Comparison with Other Journals in the Field

ACS Sustainable Chemistry & Engineering is positioned among several reputable journals that focus on sustainability and green chemistry. Comparing its impact factor with peer journals provides insight into its relative standing and influence.

Leading Journals in Sustainable Chemistry

- Green Chemistry
- Journal of Cleaner Production
- Sustainable Materials and Technologies
- Environmental Science & Technology

These journals vary in scope and impact factor, with ACS Sustainable Chemistry & Engineering consistently ranking among the top-tier publications due to its specialized focus and rigorous standards.

Factors Affecting Comparisons

Differences in journal scope, audience, and publication frequency can affect impact factor comparisons. It is essential to consider these contextual factors when evaluating the standing of ACS Sustainable Chemistry & Engineering relative to its peers.

Implications for Researchers and Authors

The impact factor of ACS Sustainable Chemistry & Engineering influences decisions made by researchers regarding where to publish their work. It also affects how institutions and funding bodies assess research output.

Choosing the Journal for Publication

Authors seeking to publish impactful research in sustainable chemistry often prioritize journals with higher impact factors to maximize visibility and citation potential. ACS Sustainable Chemistry & Engineering's reputable impact factor makes it an attractive venue for high-quality research.

Career Advancement and Funding Opportunities

Publishing in journals with strong impact factors can enhance a researcher's academic profile, supporting career progression and increasing competitiveness for grants and awards focused on sustainability research.

Strategic Research Dissemination

Understanding the impact factor helps researchers plan their publication strategies to align with their goals for dissemination, influence, and collaboration within the sustainable

chemistry community.

Frequently Asked Questions

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

As of the latest Journal Citation Reports, the impact factor of ACS Sustainable Chemistry & Engineering is approximately 7.5, reflecting its strong influence in the field of sustainable chemistry and engineering.

How does the impact factor of ACS Sustainable Chemistry & Engineering compare to other journals in sustainable chemistry?

ACS Sustainable Chemistry & Engineering typically ranks among the top journals in sustainable chemistry, with an impact factor higher than many peer journals, indicating its high citation rate and relevance in the field.

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

The impact factor is important because it measures the average number of citations received per paper published in the journal, serving as an indicator of the journal's influence and prestige within the scientific community.

How can authors benefit from publishing in ACS Sustainable Chemistry & Engineering given its impact factor?

Publishing in ACS Sustainable Chemistry & Engineering, which has a high impact factor, can increase the visibility and citation potential of authors' research, enhancing their academic reputation and career opportunities.

Has the impact factor of ACS Sustainable Chemistry & Engineering increased in recent years?

Yes, the impact factor of ACS Sustainable Chemistry & Engineering has shown a consistent upward trend over recent years, reflecting growing interest and advancements in sustainable chemistry and engineering research.

Additional Resources

1. *Understanding Impact Factors in Sustainable Chemistry Journals*

This book provides a comprehensive guide to the concept of impact factors, with a special focus on journals like ACS Sustainable Chemistry & Engineering. It explains the methodology behind impact factor calculations and discusses their significance in the academic and research communities. Readers will gain insights into how impact factors influence publication strategies and research visibility.

2. *Advances in Sustainable Chemistry: Metrics and Impact Analysis*

Focusing on the latest developments in sustainable chemistry, this book also delves into various metrics used to evaluate journal and article impact. ACS Sustainable Chemistry & Engineering is examined as a case study to highlight how impact factors reflect the growth and influence of sustainable chemistry research. The book is ideal for researchers aiming to understand the broader implications of their publications.

3. *Bibliometrics and Research Evaluation in Green Chemistry*

This title explores bibliometric tools and their application in evaluating research output within green and sustainable chemistry fields. It includes detailed discussions on impact factors, citation analysis, and alternative metrics, using ACS Sustainable Chemistry & Engineering as a prominent example. The book serves as a resource for librarians, researchers, and policy-makers interested in research assessment.

4. *Publishing Strategies for Sustainable Chemistry Researchers*

Targeting researchers in sustainable chemistry, this book offers practical advice on selecting journals, including ACS Sustainable Chemistry & Engineering, based on impact factor and scope. It covers how to maximize research visibility and citation potential and discusses ethical considerations in publishing. The content helps authors make informed decisions to enhance their academic impact.

5. *The Evolution of ACS Sustainable Chemistry & Engineering: Impact and Influence*

This detailed history chronicles the rise of ACS Sustainable Chemistry & Engineering as a leading journal in its field. It analyzes trends in its impact factor over time and the factors contributing to its scholarly influence. Readers interested in journal development and the dynamics of academic publishing will find this book insightful.

6. *Quantitative Metrics in Sustainable Chemistry Publications*

This book focuses on quantitative measures such as impact factor, h-index, and citation counts, contextualizing them within sustainable chemistry research. ACS Sustainable Chemistry & Engineering is used to illustrate how these metrics affect authors, institutions, and funding decisions. The work emphasizes the importance of metrics in strategic research planning.

7. *Green Chemistry Journals: A Comparative Impact Study*

Offering a comparative analysis of leading green chemistry journals, this book examines impact factors and other performance indicators. ACS Sustainable Chemistry & Engineering is featured prominently, allowing readers to understand its position relative to peer publications. The book aids authors and librarians in evaluating journal quality and relevance.

8. *Impact Factor Dynamics and Editorial Policies in Sustainable Chemistry*

This book investigates how editorial policies and publication practices influence impact factors in sustainable chemistry journals. Using ACS Sustainable Chemistry & Engineering as a primary example, it discusses peer review processes, special issues, and open access models. The content is valuable for editors, publishers, and researchers alike.

9. Future Trends in Sustainable Chemistry Publishing and Impact Metrics

Looking forward, this book explores emerging trends in sustainable chemistry publishing, including evolving impact metrics and digital dissemination. It reflects on the role of journals like ACS Sustainable Chemistry & Engineering in shaping research directions and community engagement. The volume is essential for stakeholders interested in the future of academic publishing in sustainability.

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impact factor of acs sustainable chemistry engineering: Green Chemistry, its Role in Achieving Sustainable Development Goals, Volume1 Sanjay K. Sharma, 2023-10-03 Green Chemistry practices and principals can play an important role in achieving the United Nations' (UN) special development goals. The expert contributors here have selected key goals and reviewed the implementation of green chemistry for these goals. As described by the UN, it is crucial to harmonize three core elements: economic growth, social inclusion and environmental protection. The sustainable development goals embrace the sustainability mindset and this will lead to greater productivity and a greener environment. For sustainable development to be achieved, these elements are interconnected and all are crucial for the well-being of individuals and societies. Features The chapters explore sustainable development through green engineering Demonstrates the progress made in the search for processes that use fewer toxic chemicals and produce less waste while using less energy. Highlights the importance of chemistry to everyday life and demonstrates the benefits the exploitation of green chemistry can have for society The pollution of water is of the utmost concern globally and bioremediation has a strong role to play in ensuring adequate supplies of high quality water These unique volumes address the vast interest in green chemistry and clean processes, which has grown significantly in recent years

impact factor of acs sustainable chemistry engineering: Sustainable Production and Applications of Waterborne Polyurethanes Inamuddin, Rajender Boddula, Anish Khan, 2021-10-20 This edited book compiles all category viewpoints in waterborne polyurethanes (WPU)s dispersions, composites, characterizing techniques, and allied applications such as coatings, adhesives, sealants, anticorrosive, flame-retardant, and biomedical applications. The book brings together panels of highly accomplished experts in the field of advanced polymers for versatile applications. It encompasses basic studies and addresses topics of novel issues which cover all the aspects in one place. The book is an invaluable guide to newcomers, research scholars, professors, and R&D industrial experts working in the field of polyurethane chemistry. Polyurethanes are excellent materials in coating technology owing to their chemical resistance, toughness, abrasion resistance, and mechanical stability. However, polyurethane dispersion contains volatile organic compounds (VOCs) and hazardous air pollutants (HAPs) which are harmful to the environment.

Hence, green chemistry research focuses on discovery of waterborne polyurethanes (WPU) and pay attention. WPU have fascinated growing interest in wide range of industrial and commercial applications.

impact factor of acs sustainable chemistry engineering: Functional Nanocomposite Hydrogels Anuj Kumar, Vijay Kumar Thakur, 2023-06-22 *Functional Nanocomposite Hydrogels: Synthesis, Characterization, and Biomedical Applications* reviews how the unique properties of nanoscale composite materials make them ideal candidates for use in biomedical hydrogels. The book covers a range of key nanocomposite materials for use in biomedical hydrogels, including graphene quantum dot, cellulose and collagen nanocomposites. A wide selection of biomedical applications for functional nanocomposite hydrogels is explored, from drug delivery and cancer therapy, to wound healing and bioimaging. This is a key reference for those working in the fields of biomaterials, nanotechnology, pharmacology, biomedical engineering, and anyone with a particular interest in composites and hydrogels. To improve the properties of conventional hydrogels, nanoparticles or nanostructures are incorporated into the hydrogel networks, forming a composite hydrogel with specialized functional properties which are tailored to a specific biomedical application. - Reviews the benefits and challenges of nanocomposites as novel materials in biomedical hydrogels, providing the reader with a wider range of choice and improved options for hydrogel development - Describes the synthesis and characterization of nanocomposite hydrogels, offering end-to-end analysis of the process - Details the range of applications in biomedicine for nanocomposite hydrogels, including biosensing, antimicrobics and drug delivery

impact factor of acs sustainable chemistry engineering: Green Chemistry in Scientific Literature Sanjay Sharma, Hasan Demir, 2019-11-22 The study covers recent statistical data of the principles of Green Chemistry, a bibliometric study of research and review papers published between 1999 and 2018, and recent trends of research topics on Green Chemistry. This study collects, processes and refines available information in scientific area. The authors have provided recent statistical data on the principles of Green Chemistry and a bibliometric analysis of published review and research articles, as well as trends of research topics, in this unique volume. Key Features: Provides a comprehensive review of recent statistical data on the principles of Green Chemistry. Presents a bibliometric analysis of published reviews and research articles as well as the trends of research topics in Green Chemistry. Surveys and critically analyzes Green Chemistry literature The subject matter is timely since tracking of research trends in the Green Chemistry field is important for directing future research

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Intensification Suojiang Zhang, 2024-12-06 Ionic Liquids in Process Intensification focuses on ionic liquids to carry out process intensification research. The book uses computational simulation methods of ionic liquids, as well as the structural design, prediction and structure regulation to describe the process of ionic liquids intensify reaction, separation, photochemistry and materials synthesis related to chemical processes. It analyzes and discusses the latest research results and typical application cases and provides new research ideas and methods for the correlation of different scales from molecular to chemical engineering. Users will find a comprehensive resource that combines computational chemistry, physical chemistry, chemical engineering, materials science, and many other basic and applied disciplines. - Treats the structure of ionic liquids as the core to carry out process intensification research - Embraces a multidisciplinary approach to IL research - Written by leading scientist in the field

impact factor of acs sustainable chemistry engineering: Biobased Epoxy Vitrimers Composites Sudheer Kumar, Sukhila Krishnan, K. Prabakaran, Ananthakumar Ramadoss, Sanjay Mavinkere Rangappa, Suchart Siengchin, 2025-09-11 Biobased Epoxy Vitrimers Composites: Design, Manufacture, Properties, Applications, and Environmental Impacts outlines the latest production techniques, opportunities, and applications of biobased epoxy vitrimers and their related composites, with a particular emphasis on their sustainable development. The book features 17 chapters on the design, manufacture, properties, degradation capability, environmental impacts, and application of these composites while also covering current challenges and opportunities in their development. Special attention is paid to their unique properties, how to reprocess and recycle them, preparation and characterization techniques, as well as future trends. Applications covered include shape-memory materials, self-healing materials, adhesives, coatings, flame retardants, and their use in additive manufacturing - Outlines the design, manufacture, properties, and applications of bio-based epoxy vitrimer composites - Discusses related applications in shape-memory materials, self-healing materials, adhesives, coatings, flame retardants, and in additive manufacturing - Covers fiber reinforcements in vitrimer matrix composites, vitrimer recycling and degradation, environmental impacts, and challenges around their use

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perspectives of membrane formation. Providing easy reference for academic and industry professionals working in membrane engineering this is an essential resource. - Analyzes membrane formation by phase inversion and modeling - Includes state-of-the-art membrane formation methods and related characterization techniques - Discusses solvent toxicity and sustainability issues of membrane production

impact factor of acs sustainable chemistry engineering: *Nanocellulose and Its Composites for Water Treatment Applications* Dinesh Kumar, 2021-07-11 Biological materials and their applications have drawn increasing attention among scientists. Cellulose is an abundant, renewable, biodegradable, economical, thermally stable, and light material, and it has found application in pharmaceuticals, coatings, food, textiles, laminates, sensors, actuators, flexible electronics, and flexible displays. Its nano form has extraordinary surface properties, such as higher surface area than cellulose; hence, nanocellulose can be used as a substitute for cellulose. Among many other sustainable, functional nanomaterials, nanocellulose is attracting growing interest in environmental remediation technologies because of its many unique properties and functionalities. Nanocellulose and Its Composites for Water Treatment Applications supplies insight into the application of nanocellulose and its nanocomposites for water purification and remediation. It covers different classes of nanocellulose—cellulose nanocrystal (CNC), microfibrillated cellulose (MFC), hairy cellulose nanocrystalloid (HCNC), and bacterial nanocellulose (BNC)—for their competency with other renewable and carbonaceous materials such as pectin, alginate, and CNTs. Future perspectives of nanocellulose and nanocomposites gleaned from different biodegradable origins are also discussed. This book delves into an updated description of the basic principles and developments in synthesis, characterization methods, properties (chemical, thermal, optical, structural, surface, and mechanical structure), property relationships, crystallization behavior, and degradability of biodegradable nanocomposites. The book also supplies vivid information about various cellulose nanomaterials and their applications in absorbing organic and inorganic toxins, membrane filtration of bacteria, viruses, and ionic impurities, photocatalytic dye removal, and sensing of water toxins. Features Details the synthesis and characterization methods of nanocellulose Illustrates the applications of nanocellulose and its nanocomposites Shows in-depth accounts of the various types of properties of nanocellulose and its composites Features emerging trends in the use of nanocellulose as adsorbents, sensors, membranes, and photocatalysis materials This book will be useful for academics, researchers, and engineers working in water treatment and purification.

impact factor of acs sustainable chemistry engineering: 26th European Symposium on Computer Aided Process Engineering , 2016-06-17 26th European Symposium on Computer Aided Process Engineering contains the papers presented at the 26th European Society of Computer-Aided Process Engineering (ESCAPE) Event held at Portorož Slovenia, from June 12th to June 15th, 2016. Themes discussed at the conference include Process-product Synthesis, Design and Integration, Modelling, Numerical analysis, Simulation and Optimization, Process Operations and Control and Education in CAPE/PSE. - Presents findings and discussions from the 26th European Society of Computer-Aided Process Engineering (ESCAPE) Event

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impact factor of acs sustainable chemistry engineering: *Deep Eutectic Solvents in Liquid-Liquid Extraction* Papu Kumar Naik, Nikhil Kumar, Nabendu Paul, Tamal Banerjee,

2022-11-07 Deep eutectic solvents (DESs) are a new class of green solvents that open a whole new world of opportunities for separation challenges. This book comprehensively provides a detailed discussion of their application as an extractive solvent in separation processes, adopting molecular dynamics (MD) simulations for atomistic insight into the solute transfer across bi-phasic systems. Furthermore, it explains ternary and quaternary mixtures, including MD simulation of relevant DES systems. Features in this volume include the following: Applications of DESs in the extraction of aromatics and polyaromatics from fuel oil by liquid-liquid extraction Eutectic behavior with respect to hydrocarbon and aqueous solutions MD insights on extraction using DESs Possible industrial applicability of potential DESs Results from Gaussian, NAMD, and PACKMOL software packages This book is aimed at researchers and graduate students working in the field of fuels and petrochemicals, separation science, chromatography, and chemical processing and design.

impact factor of acs sustainable chemistry engineering: Emerging Green Technologies

Matthew N. O. Sadiku, 2020-03-10 Green Technology deals with using science and technology to protect the environment as well as curb the negative impacts of human involvement. The emerging green technologies, covered in this book, will propel our economy in the near future. Their development will lead to global and sustainable powers that will impact our economics, societies, cultures, and the way of life. This book provides researchers, students, and professionals a comprehensive introduction, applications, benefits, and challenges of 15 emerging green technologies. It presents the impact of these cutting-edge technologies on our global economy and its future. The book will help a beginner to have an introductory knowledge about these emerging technologies. The main objective of the author is to provide a concise treatment that is easily digestible. It is a must-read for those graduate students or scholars who consider researching green technologies. It can also serve as a valuable resource for those business professionals who seek ways to green their processes.

impact factor of acs sustainable chemistry engineering: Lignin-driven Advanced

Materials Meysam Madadi, Mahdy Elsayed, Mortaza Aghbashlo, Meisam Tabatabaei, 2025-10-31 Lignin-driven Advanced Materials: The State-of-the-Art offers a pioneering approach to address the multifaceted challenges in the production of lignin-derived materials. This comprehensive book covers the creation of value-added products such as carbon materials, nanoparticles, energy storage materials, and bioplastics. It promotes collaboration between academia and industry, bridging the gap between theoretical knowledge and practical expertise. Featuring advanced lignin isolation techniques, tools for lignin characterization, and pragmatic aspects of lignin-based materials, the book incorporates the latest research and industrial advancements. Additionally, the book addresses the contentious questions surrounding lignin isolation techniques, providing advanced strategies that have the potential to replace conventional methods in the industry. It serves as a comprehensive resource for analytical tools for lignin characterization and presents solutions for more in-depth knowledge. Furthermore, it aims to improve economic viability and sustainability in lignocellulosic biomass utilization, and guides sustainable decision-making with environmental and economic assessments. This book is a vital resource for those exploring advancements in lignin-based materials. - Gives access to comprehensive insights and cutting-edge knowledge in the field of lignin research, characterization tools, and sustainable lignin-driven materials production processes - Provides practical solutions and applications that bridge the gap between theoretical knowledge and real-world industrial practices - Offers tools and methodologies for conducting environmental and economic assessments, empowering researchers and professionals to make informed, sustainable decisions in lignin-driven materials production processes

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Phenol-Based Polymers Samy Madbouly, Chaoqun Zhang, 2024-04-26 High Performance Plant Phenol-Based Polymers brings together the latest advances in phenol-based polymers, composites, and nanocomposites, covering synthesis, preparation, characterization, processing, and applications. Bio-renewable plant phenols represent a diverse class of chemicals with great industrial significance due to their unique structures and high abundance. The depolymerization process of lignin into

small bio-based phenols is a relatively new approach and has received considerable attention recently. This process produces key intermediates, phenolic compounds that can be used to develop and design a wide range of high-performance, bio-renewable, and multifunctional polymers and composites. This book will provide materials scientists and engineers with a useful framework to help take advantage of the latest research conducted in this rapidly advancing field, enabling them to develop and commercialize their own products quickly and more successfully. The book will be of practical interest to academic researchers, industrial scientists, engineers, and advanced students in the area of materials science and engineering, particularly those with an interest in high-performance bio-based polymers and composites. - Reviews the current state-of-the-art in phenol-based polymers, composites, and nanocomposites - Guides the reader through the preparation of a range of advanced polymers based on plant phenols - Provides a critical review of current applications in various fields, such as biomedicine and automotive

impact factor of ACS Sustainable Chemistry Engineering: Green Metrics, Volume 11, 2018-02-01 Volume 11 of the Handbook of Green Chemistry series identifies, explains and expands on green chemistry and engineering metrics, describing how the two work together, backed by numerous practical applications. Up-to-date and authoritative, this ready reference covers the development and application of sustainable chemistry along with engineering metrics in both academia and industry, providing the latest information on fundamental aspects of metrics, practical realizations and example case studies. Additionally, it outlines how metrics have been used to facilitate developments in sustainable and green chemistry. The different concepts of and approaches to metrics are applied to fundamental problems in chemistry and the focus is firmly placed on their use to promote the development and implementation of more sustainable and green chemistry and technology in the production of chemicals and related products. Starting with molecular design, followed by chemical route evaluation, chemical process metrics and product assessment, by the end readers will have a complete set of metrics to choose from as they move a chemical conception to final product. Of high interest to academics and chemists working in industry.

impact factor of ACS Sustainable Chemistry Engineering: Biomass Conversion and High-Value Utilization Kai Yan, Rongliang Qiu, Shizhong Wang, 2025-08-01 Biomass Conversion and High-Value Utilization provides the theoretical foundations, methods, and latest applications on the conversion and utilization of biomass for bioenergy, biofuels, energy storage, and high-value products. The book combines the preparation methods, physical and chemical properties measurement methods, and specific applications of products from biomass via thermal, catalytic, and biological technologies. Divided into two parts, Part I examines the efficient conversion of biomass resources, explaining key concepts, methods, and technological bottlenecks. Part II explores the versatile utilization of functional carbon materials derived from biomass, including catalysts for biodiesel production, metal-air batteries, electrochemical sensors, and wearable electronics. Finally, the book provides an extensive review of each technology; each technology-specific chapter reviews the current and future market demand of the technology, evaluates the economic feasibility of the technology, including cost effectiveness, return on investment, profit forecast, etc., discusses the unique advantages of the technology compared to existing common methods or other alternative technologies, considers the feasibility and practicability of the technology in actual industrial production, and explains the regulatory and environmental requirements and limitations of the technology. Biomass Conversion and High-Value Utilization is an invaluable resource for researchers and students involved in biomass conversion to high-value fuels and other products, and will be of interest to anyone working in bioenergy, biofuels, energy storage, catalysis, electronics and devices, and functional carbon materials. - Discusses the advantages and disadvantages of pre-treatment technology of biomass resources and explains their methodologies - Presents the design and synthesis of efficient catalysts for the catalytic conversion of biomass-based platform molecules to high value fuels and chemicals - Explores the most recent advances and state-of-the-art in the application of biomass-based carbon materials for energy and electronics

impact factor of acs sustainable chemistry engineering: 2D Semiconductors for Environmental Remediation

Honey John, Nisha T. Padmanabhan, Sona Stanly, Jith C. Janardhanan, 2024-10-02 This book gives a comprehensive description of various aspects of 2D semiconductors including their synthesis, surface science, characterizations, and their allied application in environmental remediation including air and water purification, oil-water separation, hydrogen production, and CO₂ removal. The electronic and optoelectronic enhancement properties of these semiconductors with bandgap engineering, doping, and chemical functionalization for various applications are exemplified. Features: Provides focus on the application of 2D semiconductors for environmental applications. Covers the fundamental understanding of material design, fabrication, defect engineering, physical and chemical properties of 2D semiconductors, and their advantages for environmental applications. Focuses on the reliable future perspectives and developments that lead to advanced research in utilizing 2D materials for large-scale exploration and commercial deployment. Explores an in-depth insight into various aspects and processes for environmental remediation. Details the importance of 2D semiconductors over other 0D, 1D, or 3D semiconductors. This book is aimed at researchers and graduate students in materials science and environmental engineering.

impact factor of acs sustainable chemistry engineering: 27th European Symposium on Computer Aided Process Engineering, 2017-09-21 27th European Symposium on Computer Aided Process Engineering, Volume 40 contains the papers presented at the 27th European Society of Computer-Aided Process Engineering (ESCAPE) event held in Barcelona, October 1-5, 2017. It is a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students, and consultants for chemical industries. - Presents findings and discussions from the 27th European Society of Computer-Aided Process Engineering (ESCAPE) event

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