

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 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 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 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.

Impact Factor Acs Sustainable Chemistry Engineering

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impact factor acs sustainable chemistry engineering: *Green Chemistry for the Development of Eco-Friendly Products* Chahal, Kavita Shakya, Solanki, Twinkle, 2022-06-10 In today's world, it has become necessary to shift towards a more eco-friendly and sustainable approach in the industrial field to reduce pollution and stop toxic chemicals from entering the environment. Green chemistry is an emerging concept that can be utilized to assist with these environmental issues. To ensure this concept is employed to its full potential, further study on the best practices and challenges of implementation are required. *Green Chemistry for the Development of Eco-Friendly Products* discusses the main objective of green chemistry and how it can redefine and modify manufacturing processes and products in order to decrease hazards to human health. The book also considers key concepts of green chemistry, such as the need to make better use of available resources for the development of a chemical process. Covering critical topics such as bioplastics, waste, and hydrogen law, this reference work is ideal for chemists, business owners, environmentalists, policymakers, academicians, scholars, researchers, practitioners, instructors, and students.

impact factor acs sustainable chemistry engineering: *Green Analytical Chemistry* Mihkel Koel, Mihkel Kaljurand, 2019-03-13 Chemical analysis requires solvents, reagents and energy and generates waste. The main goal of green analytical chemistry is to avoid or reduce the undesirable environmental side effects of chemical analysis, while preserving the classic analytical parameters of accuracy, sensitivity, selectivity and precision. This book portrays the current and changing situation concerning adoption of the principles of green chemistry as applied to analysis. It begins by looking at the advantages of and problems associated with on-site analysis and how analytical techniques 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.

impact factor acs sustainable chemistry engineering: *Green Chemistry and Applications* Aide Sáenz-Galindo, Adali Facio, Raul Rodriguez-Herrera, 2020-11-25 Green chemistry is a work tool that can be applied in different areas such as medicine, materials, polymers, food, organic chemistry, etc., since it was propounded in the early 2000s. It has become a viable alternative for care, remediation and protection of the environment and has been implemented worldwide. In this book the twelve principles of green chemistry are presented in a simple way, with examples of the applications of green chemistry in numerous areas showcasing it as an ideal alternative for environmental care. It also provides information on current research being implemented at the pilot plant and industrial level. The book demonstrates the importance of the use of renewable raw materials, the use of catalysis and the implementation of alternative energy sources such as the use of microwaves and ultrasound in different separation and chemical processes.

impact factor acs sustainable chemistry engineering: *Sustainable Approaches in Pharmaceutical Sciences* Kamal Shah, Durgesh Nandini Chauhan, Nagendra Singh Chauhan, 2023-11-06 Highly comprehensive and detailed text on best possible sustainable approaches associated with the development, design, and origination of pharmaceuticals Sustainable Approaches in Pharmaceutical Sciences enables readers to understand the best possible green approaches associated with the development, design, and origination of pharmaceuticals, including resources that may minimize the adverse effects associated with synthesis, isolation, and extraction. Sustainable Approaches in Pharmaceutical Sciences covers a myriad of current topics, including mechanochemical improvements for API synthesis, as well as the role of artificial intelligence (AI) in the development and discovery of pharmaceuticals, along with recent developments in hydrogels which respond to triggered factors during topical drug delivery. Authored by experienced scientists from institutions across the world, other sample topics covered in Sustainable Approaches in Pharmaceutical Sciences include: Green technologies and benefits associated with them, white biotechnology, green chemistry, and eco-friendly approaches for designing active pharmaceutical ingredients Impact of sustainable approaches in pharmaceutical industries regarding use of solvents, nanoparticles formulations, and antimicrobial bandages Micro-extractive methods capable of generating high recovery values of the analytes and associated techniques, such as dispersive liquid-liquid microextraction Benefits of the exploration of sustainable chemistry on a commercial scale, particularly in relation to bioresources, chemical manufacturing, and organic transformation Discussing both the foundational science and practicality of different approaches regarding human and environmental health, Sustainable Approaches in Pharmaceutical Sciences is an essential resource for scientists, medical professionals, and industrial professionals working in the fields of sustainable technology and synthesis in pharmaceutical sciences, along with advanced level students.

impact factor acs sustainable chemistry engineering: Solid Waste Management José María Ponce-Ortega, Rogelio Ochoa-Barragan, César Ramírez-Márquez, Jose Ezequiel Santibanez-Aguilar, Aurora del Carmen Munguia-Lopez, 2025-08-12 Solid Waste Management: Navigation from Fundamentals to Innovation is a compendium that unravels the complexities of waste management. It traverses the historical backdrop of waste management practices and ushers in a realm where sustainability and cutting-edge technologies converge to tackle the escalating challenges of waste disposal and treatment. This book serves a diverse readership, i.e. students, researchers, educators, and practitioners. It has an interdisciplinary approach and provides a 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.

impact factor acs sustainable chemistry engineering: Biorefinery Olatunde Samuel Dahunsi, 2024-10-15 *Biorefinery: A Sustainable Waste Management Solution for the Developing World* presents a comprehensive introduction to the new field of biorefinery as a sustainable waste management solution. With an emphasis on developing economies, the book explains how to develop sustainable methods for the collection, sorting, storage, and processing of waste streams for the production of fuels and platform chemicals. The first four chapters introduce the theoretical framework for the analysis of the various waste streams for bioenergy production, with an emphasis in developing countries. These introductory chapters are followed by a thorough examination of specific waste streams for bioenergy production, addressing every known waste feedstock in detail. Subsequent chapters explain biorefinery concepts for these waste feedstocks, addressing different biorefinery approaches, as well as considering important topics like pretreatment, microorganisms, and value-added products in dedicated chapters. Finally, the book discusses the policies, economics, and strategies for waste management and waste valorization. - Analyzes the extent of adoption and the prospects of biorefinery in developing countries and emerging economies - Bridges the gap between theoretical concepts of biorefinery and end-users working in developing countries - Integrates the principles of sustainable development and the circular economy

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

impact factor acs sustainable chemistry engineering: Phytotechnology with Biomass Production Larry E. Erickson, Valentina Pidlisnyuk, 2021-06-15 This book explains the concept of using phytotechnology with biomass production to improve soil quality and restore contaminated sites to a useful state that has economic and social value. *Phytotechnology with Biomass Production: Sustainable Management of Contaminated Sites* focuses on the application of second-generation biofuel crops, primarily *Miscanthus*, to slightly contaminated or marginal postmilitary and postmining soils. Based on recent and ongoing research from the United States, Ukraine, the Czech Republic, and Germany, along with case studies from other countries, this is the first comprehensive book on using phytotechnology with biomass production at contaminated sites at a global level. **FEATURES** Focuses on an important topic of a growing global activity: soil improvement through biomass production Includes case studies and success stories from different countries on application of *Miscanthus* phytotechnology to sites differently contaminated by trace elements, pesticides, and petroleum products Discusses the peculiarities of *Miscanthus* production on postmilitary and postmining contaminated lands and the impact of plant growth regulators, soil amendments, 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.

impact factor acs sustainable chemistry engineering: The Wool Handbook Seiko Jose, Sabu Thomas, Gautam Basu, 2023-10-18 The Wool Handbook: Morphology, Structure, Property and Applications explores the fundamental aspects of wool fibers as well as traditional and novel applications of wool in areas including polymer composites and technical textiles. Apart from textiles and garments, wool has long been used for various diversified applications due to its unique material properties. Wool is inherently fire resistant, antimicrobial, flexible and antibacterial, and as a natural material, it can be used to create environmentally sustainable products. This book explains basic and advanced topics related to wool fibers, from shearing to marketing, drawing on academic and industrial research from a range of subjects. Providing statistics, processing methods, and testing and characterization techniques for wool fiber, this book will help readers to use wool fibers to find new applications and solutions. - Provides advanced testing methods to explore the material characteristics of wool - Includes the latest industrial methods for physical and chemical processing of wool - Presents case studies on how wool fibers have been made into successful bio-based composite and textile products

impact factor acs sustainable chemistry engineering: Recent Advances in Gas Chromatography Fabrice Mutelet, 2022-04-13 Gas chromatography is one of the most used analytical techniques in the industry. It is a powerful tool with a wide range of applications. This book presents recent advances in gas chromatography, multidimensional gas chromatography, and gas chromatography mass spectrometry. It also discusses inverse gas chromatography. The main focus is the use of gas chromatography techniques to analyze petroleum fluids, biomass, and ionic liquids in medical and petrochemical industries.

impact factor acs sustainable chemistry engineering: Sustainable Synthesis of Pharmaceuticals Mariette M. Pereira, Mario J. F. Calvete, 2018-03-26

impact factor acs sustainable chemistry engineering: Green Metrics, Volume 11 , 2018-05-07 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.

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