Journal Of Environmental Chemical Engineering Impact Factor

Journal of Environmental Chemical Engineering Impact Factor: A Comprehensive Guide

Introduction:

Are you a researcher in environmental chemical engineering, looking to publish your groundbreaking work? Understanding the impact factor of the Journal of Environmental Chemical Engineering (or a similar journal in your field) is crucial for maximizing your research's visibility and influence. This comprehensive guide delves deep into the meaning of impact factor, its significance for publication choices, how the Journal of Environmental Chemical Engineering's impact factor is calculated and what factors influence it. We'll also explore how to strategically select journals based on their impact factor and discuss alternative metrics beyond impact factor for evaluating journal quality. By the end of this post, you will have a thorough understanding of how impact factor affects your career and how to navigate the complex world of academic publishing.

What is the Journal Impact Factor?

The impact factor (IF) of a journal is a crucial metric used to assess the relative importance and influence of a scholarly publication within its field. It's calculated annually by Clarivate Analytics (formerly the Institute for Scientific Information) and represents the average number of citations received per paper published in that journal during the preceding two years. A higher impact factor generally suggests that the journal publishes highly cited research, attracting more attention and potentially leading to greater influence within the scientific community. However, it's essential to remember that the impact factor is just one indicator of a journal's quality and should not be the sole criterion for publication decisions.

Journal of Environmental Chemical Engineering Impact Factor: A Deeper Dive

While I cannot provide the exact current impact factor for the Journal of Environmental Chemical Engineering, as these figures fluctuate and are updated annually, locating this information is straightforward. You can easily find this data by:

Checking the Journal's Website: Most reputable journals prominently display their impact factor on their homepage or within an "About" section.
Consulting Journal Citation Reports (JCR): Clarivate Analytics' Web of Science platform, which includes the Journal Citation Reports (JCR), is the definitive source for impact factor data. Access may require a subscription.
Using Google Scholar: A quick Google Scholar search for "Journal of Environmental Chemical Engineering impact factor" often provides links to the relevant information.

Factors Influencing the Impact Factor of a Journal

Several factors contribute to a journal's impact factor. Understanding these is vital for researchers aiming to publish in high-impact journals:

Editorial Rigor: Journals with stringent peer-review processes and high editorial standards tend to publish high-quality research, leading to increased citations.
Journal Scope and Focus: Journals focusing on emerging or highly active research areas often attract more citations due to the inherent interest in those topics.
Journal Prestige and Reputation: Established and well-respected journals often have a higher impact factor due to their reputation for publishing influential research.
Citation Practices within the Field: The citation habits of researchers within a specific field influence the overall impact factor.
Open Access vs. Subscription-Based Models: Open access journals can sometimes have lower impact factors initially but may experience growth over time due to increased visibility.

Beyond Impact Factor: Alternative Metrics for Journal Evaluation

While impact factor remains a widely used metric, it has limitations. Focusing solely on impact factor can be misleading. Researchers should consider additional metrics to assess journal quality, including:

Article Influence Score (AIS): This metric assesses the influence of individual articles rather than the journal as a whole.
Eigenfactor Score: This metric considers both the number of citations and the prestige of the citing journals.
Altmetrics: These metrics track social media mentions, downloads, and other online activity related to published articles.
Journal's Editorial Board: The expertise and reputation of the editorial board can indicate the quality of the journal.

Choosing the Right Journal for Your Research

Selecting the appropriate journal for your research involves more than just examining the impact factor. Consider these factors:

Journal Scope and Audience: Ensure the journal's scope aligns perfectly with your research topic and target audience.
Peer-Review Process: Understand the journal's peer-review process to ensure a rigorous and fair evaluation of your work.
Publication Timeline: Consider the journal's typical publication timeline to meet your deadlines.
Open Access Options: Evaluate whether the journal offers open access options, which can increase the visibility of your work.

Book Outline: "Navigating the Publication Landscape: A Guide for Environmental Chemical Engineering Researchers"

Introduction: Defining the importance of publishing, overview of the publication process, and the role of impact factor.
Chapter 1: Understanding Journal Impact Factor: Detailed explanation of impact factor calculation, its strengths, and limitations.

Chapter 2: Impact Factor and the Environmental Chemical Engineering Field: Analysis of trends in impact factors within the field, key journals, and their characteristics.
Chapter 3: Beyond Impact Factor: Alternative Metrics and Journal Selection Criteria: Comprehensive exploration of alternative metrics and a practical guide to choosing the right journal.
Chapter 4: Strategies for Increasing Citation Rates: Tips for maximizing the visibility and citation potential of published research.
Chapter 5: Navigating the Publication Process: Step-by-step guide through the submission, review, and publication process.
Chapter 6: Ethical Considerations in Academic Publishing: Discussion of best practices and avoidance of predatory journals.
Chapter 7: The Future of Academic Publishing: Exploration of emerging trends and technologies influencing the publishing landscape.
Conclusion: Recap of key takeaways, emphasizing holistic journal selection strategies.

Detailed Explanation of Book Outline Points:

(Each point in the outline above would be expanded into a full chapter of the book, providing detailed explanations, examples, and case studies. This would be too extensive for this blog post, but the brief descriptions below provide an idea of the content.)

FAQs:

1. What is the difference between impact factor and h-index? Impact factor measures journal influence, while the h-index measures individual researcher influence.

2. Is a high impact factor always indicative of high-quality research? No, it's a useful metric but not a perfect indicator of quality.

3. How often is the impact factor updated? Annually, usually based on the preceding two years of publication data.

4. Are there any journals in environmental chemical engineering with exceptionally high impact factors? Specific journal names and their impact factors are dynamic and best found through JCR or journal websites.

5. Can open-access journals achieve high impact factors? Yes, though it may take time to build reputation and citation rates.

6. Should I only consider the impact factor when choosing a journal? No, consider scope, audience, peer-review process, and publication speed as well.

7. What are predatory journals, and how can I avoid them? Predatory journals prioritize profit over quality; research their reputation and look for signs of unprofessionalism.

8. How can I improve my chances of publishing in a high-impact journal? Conduct rigorous research, write clearly and concisely, and follow the journal's submission guidelines meticulously.

9. Where can I find the impact factor for the Journal of Environmental Chemical Engineering? Check the journal's website, the Journal Citation Reports (JCR), or use Google Scholar.

Related Articles:

1. The Impact of Open Access on Journal Impact Factors: Discusses the evolving relationship between open access publishing and impact factor.

2. Alternative Metrics in Scientific Publishing: Beyond the Impact Factor: Explores the various alternative metrics available and their benefits.

3. Navigating the Peer-Review Process: A Guide for Researchers: Provides tips for successfully navigating the peer-review process.

4. How to Choose the Right Journal for Your Research Publication: A guide to selecting the most suitable journal based on several factors.

5. Avoiding Predatory Journals: A Checklist for Researchers: Offers a detailed checklist to identify and avoid predatory journals.

6. The Role of Editorial Boards in Maintaining Journal Quality: Explores the importance of editorial boards in ensuring high-quality publications.

7. Improving Your Manuscript for Publication: Tips for Effective Writing and Editing: Provides guidance on enhancing manuscripts for higher chances of acceptance.

8. Understanding Citation Analysis and its Implications for Research Evaluation: Discusses the importance of citation analysis in assessing research impact.

9. The Future of Scholarly Communication: Trends and Predictions: Explores future trends and potential advancements in the publishing world.

journal of environmental chemical engineering impact factor: Re-Engineering the Chemical Processing Plant Andrzej Stankiewicz, Jacob A. Moulijn, 2018-12-14 The first guide to compile current research and frontline developments in the science of process intensification (PI), Re-Engineering the Chemical Processing Plant illustrates the design, integration, and application of PI principles and structures for the development and optimization of chemical and industrial plants. This volume updates professionals on emerging PI equipment and methodologies to promote technological advances and operational efficacy in chemical, biochemical, and engineering environments and presents clear examples illustrating the implementation and application of specific process-intensifying equipment and methods in various commercial arenas.

journal of environmental chemical engineering impact factor: *The Elements of Style* William Strunk Jr., 2023-10-01 First published in 1918, William Strunk Jr.'s The Elements of Style is a guide to writing in American English. The boolk outlines eight elementary rules of usage, ten elementary principles of composition, a few matters of form, a list of 49 words and expressions commonly misused, and a list of 57 words often misspelled. A later edition, enhanced by E B White, was named by Time magazine in 2011 as one of the 100 best and most influential books written in English since 1923.

journal of environmental chemical engineering impact factor: Chemical Fate and Transport in the Environment Harold F. Hemond, Elizabeth J. Fechner, 2013-10-22 Chemical Fate and Transport in the Environment is a textbook for upper division undergraduate and graduate students studying environmental sciences in engineering, hydrology, chemistry, and other related disciplines. It covers the fundamental principles of mass transport and chemical partitioning, and

the transformation of substances in surface water, in groundwater or subsurface environments, and in the atmosphere. Three major areas-surface water, ground water, and air-are covered, with descriptive overviews for each area. Each major section begins by describing environment: its controlling physical, chemical, and biological processes. The book also contains examples of common environmental problems and includes problem sets at the end of each chapter.Text that has been developed from a course taught at MITBroad-based coverage of the environmental sciencesA more rigorous treatment of transport than found in other textsExercise sets at the end of each chapterExamples of current environmental problems fully integrated into the textAmple references for access to the primary literatureNumerous illustrations throughout

journal of environmental chemical engineering impact factor: AACN Procedure Manual for Critical Care American Association of Critical-Care Nurses, 2005 This essential resource offers comprehensive coverage of procedures unique to the critical care environment. Thoroughly updated and expanded, the new edition emphasizes evidence-based practice and reflects the current state of critical care nursing practice. Information is presented in a logical, step-by-step format with supporting rationales for each step of every procedure.--BOOK JACKET.

journal of environmental chemical engineering impact factor: Chemical and Bioprocess Engineering Shirish Sonawane, Y. Pydi Setty, Srinu Naik Sapavatu, 2015-04-15 Examining energy, environment, and sustainability from the chemical engineering point of view, this book highlights critical issues faced by chemical engineers and biochemical engineers worldwide. The book covers recent trends in chemical engineering and bioprocess engineering, such as CFD simulation, statistical optimization, process control,

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

journal of environmental chemical engineering impact factor: Environment and Development Stavros G. Poulopoulos, Vassilis J. Inglezakis, 2016-05-23 Environment and Development: Basic Principles, Human Activities, and Environmental Implications focuses on the adverse impact that human activities, developments, and economic growth have on both natural and inhabited environments. The book presents the associated problems, along with solutions that can be used to achieve a harmonic, sustainable development that provides for the co-existence of man and natural life. Chapters provide detailed information on a range of environments including: atmospheric, aquatic, soil, natural, urban, energy, and extraterrestrial, as well as the relationship between the environment and development. In addition, this comprehensive book presents the latest research findings and trends in global environmental policy for each issue. - Offers a discussion of the extraterrestrial environment and waste in earth orbit as one of the distinctive topics of the book - Addresses global environmental policy issues and policies - Presents tabulated data to support the analysis and explain the issues presented - Includes case studies covering many topics of current interest - Analyzes environmental issues and proposes solutions grounded in recent research findings - Discusses the various interpretations of the development concept as well as alternative

pathways to sustainable development

journal of environmental chemical engineering impact factor: Environmental Geochemistry Benedetto DeVivo, Harvey Belkin, Annamaria Lima, 2017-09-18 Environmental Geochemistry: Site Characterization, Data Analysis and Case Histories, Second Edition, reviews the role of geochemistry in the environment and details state-of-the-art applications of these principles in the field, specifically in pollution and remediation situations. Chapters cover both philosophy and procedures, as well as applications, in an array of issues in environmental geochemistry including health problems related to environment pollution, waste disposal and data base management. This updated edition also includes illustrations of specific case histories of site characterization and remediation of brownfield sites. - Covers numerous global case studies allowing readers to see principles in action - Explores the environmental impacts on soils, water and air in terms of both inorganic and organic geochemistry - Written by a well-respected author team, with over 100 years of experience combined - Includes updated content on: urban geochemical mapping, chemical speciation, characterizing a brownsfield site and the relationship between heavy metal distributions and cancer mortality

journal of environmental chemical engineering impact factor: *Silent Spring* Rachel Carson, 2020-03-26 Now recognized as one of the most influential books of the twentieth century, Silent Spring exposed the destruction of wildlife through the widespread use of pesticides Rachel Carson's Silent Spring alerted a large audience to the environmental and human dangers of pesticides, spurring revolutionary changes in the laws affecting our air, land, and water. Despite condemnation in the press and heavy-handed attempts by the chemical industry to ban the book, Carson succeeded in creating a new public awareness of the environment which led to changes in government and inspired the ecological movement. It is thanks to this book, and the help of many environmentalists, that harmful pesticides such as DDT were banned from use in the US and countries around the world. This Penguin Modern Classics edition includes an introduction by Lord Shackleton, a preface by World Wildlife Fund founder Julian Huxley, and an afterword by Carson's biographer Linda Lear.

journal of environmental chemical engineering impact factor: Nanomaterials for Environmental Applications Mohamed Abou El-Fetouh Barakat, Rajeev Kumar, 2022-02-03 Nanomaterials for Environmental Applications offers a comprehensive review of the latest advances in nanomaterials-based technologies for the treatment of emerging contaminants in wastewater. It describes the latest developments in the synthesis protocols, including the synthesis of different kinds of nanostructure materials using various physical and chemical methods. Features Discusses the synthesis and characterization of important nanomaterials such as carbon nanostructures, metal and metal oxide nanostructures, polymer nanostructures, and smart 1D-–3D nanomaterials Presents the latest techniques used in the characterization of nanomaterials Covers environmental applications including the remediation of pollutants in wastewater and water purification and disinfection Examines the sources, fate, transport, and ecotoxicology of nanomaterials in the environment. Aimed at researchers and industry professionals, this work will be of interest to chemical, environmental, and materials engineers concerned with the application of advanced materials for environmental and water remediation. Mohamed Abou El-Fetouh Barakat is a Professor of Environmental Sciences at both King Abdulaziz University (KAU)- Saudi Arabia, and Central Metallurgical R&D Institute (CMRDI)- Egypt. He is highly qualified in the fields of industrial waste management and pollution control as well as catalysis and nanotechnology. His experience includes academic research works in Japan, Germany, the United States and Saudi Arabia, as well as initiating and leading industrial research projects in Egypt jointly with the United States. Rajeev Kumar is an Associate Professor in the Environmental Science Department, King Abdulaziz University, Jeddah, Saudi Arabia. His research activities are in the areas of wastewater treatment and materials science. He studies the adsorption and photocatalytic properties of nanomaterials for the removal of contaminants from wastewater.

journal of environmental chemical engineering impact factor: *Rules of Thumb for*

Chemical Engineers Carl Branan, 2002 Fractionators, separators and accumulators, cooling towers, gas treating, blending, troubleshooting field cases, gas solubility, and density of irregular solids * Hundreds of common sense techniques, shortcuts, and calculations.

journal of environmental chemical engineering impact factor: Recent Developments in Management Science in Engineering Jiuping Xu, 2021-08-06

journal of environmental chemical engineering impact factor: Environmental Waste Management Ram Chandra, 2016-04-19 Rapid industrialization has resulted in the generation of huge quantities of hazardous waste, both solid and liquid. Despite regulatory guidelines and pollution control measures, industrial waste is being dumped on land and discharged into water bodies without adequate treatment. This gross misconduct creates serious environmental and public health

journal of environmental chemical engineering impact factor: Bow Ties in Process Safety and Environmental Management Anjani Ravi Kiran Gollakota, Sneha Gautam, Chi-Min Shu, 2021-12-29 Bow Ties in Process Safety and Environmental Management: Current Trends and Future Perspectives aims to combine the process safety aspects and the potential dangers to the ecology including the source of the contamination, and especially, the unbalanced utilization of toxic chemicals in process industries. It also covers a broad spectrum of industrial process safety, environmental pollution factors, dangers to land, water, air and living species, remediation technologies (traditional and futuristic approaches), pollutant degradation through numerical modelling, and physicochemical characteristics of the chemicals and their thermal analysis. It also provides the mandated safety data sheets already available and suggestions for the improvement of industrial specifications. Discusses detailed aspects of process safety and environmental impact from a theoretical and practical perspective Covers detailed procedures of environmental modeling concepts Explores forensic investigation sequences during the incident Proposes futuristic approaches towards risk assessment and management Includes real-time case studies with complexities and solutions This book is written for researchers, graduate students, and professionals involved in chemical engineering, environmental engineering, and process safety engineering.

journal of environmental chemical engineering impact factor: Detoxification of Chemical Warfare Agents Dimitrios A. Giannakoudakis, Teresa J. Bandosz, 2017-12-28 This book presents a detailed history of chemical warfare development during the First World War and discusses design approaches to gas masks and the performance of new filter materials that decontaminate chemical warfare agents (CWA) when applied in the vapor phase. It describes multifunctional nanocomposites containing zinc and zirconium (hydr)oxides, graphite oxide and silver or gold nanoparticles as reactive adsorbents for the degradation of the CWAs vapors. In addition it examines in detail the surface properties that are most important in the mineralization performance.

journal of environmental chemical engineering impact factor: *Green Materials for Wastewater Treatment* Mu. Naushad, Eric Lichtfouse, 2020-08-14 This book reviews health hazards associated with wastewater use and water pollutants. Chapters present applications of green materials made of agricultural waste, activated carbon and magnetic materials for wastewater treatment. The removal of toxic metals using algal biomass and the removal of toxic dyes using chitosan composite materials are also discussed. The book includes reviews on the removal of phenols, pesticides, and on the use of ionic liquid-modified activated carbon for the treatment of textile wastewater.

journal of environmental chemical engineering impact factor: *Electrochemistry for the Environment* Christos Comninellis, Guohua Chen, 2009-10-15 Wastewater treatment technology is undergoing a profound transformation due to the fundamental changes in regulations governing the discharge and disposal of h- ardous pollutants. Established design procedures and criteria, which have served the industry well for decades, can no longer meet the ever-increasing demand. Toxicity reduction requirements dictate in the development of new technologies for the treatment of these toxic pollutants in a safe and cost-effective manner. Fo- most among these technologies are

electrochemical processes. While electrochemical technologies have been known and utilized for the tre- ment of wastewater containing heavy metal cations, the application of these p- cesses is only just a beginning to be developed for the oxidation of recalcitrant organic pollutants. In fact, only recently the electrochemical oxidation process has been rec- nized as an advanced oxidation process (AOP). This is due to the development of boron-doped diamond (BDD) anodes on which the oxidation of organic pollutants is mediated via the formation of active hydroxyl radicals.

journal of environmental chemical engineering impact factor: *Radionuclides in the Environment* David A. Atwood, 2013-02-19 Nuclear energy is the one energy source that could meet the world's growing energy needs and provide a smooth transition from fossil fuels to renewable energy in the coming decades and centuries. It is becoming abundantly clear that an increase in nuclear energy capacity will, and probably must, take place. However, nuclear energy and the use of radionuclides for civilian and military purposes lead to extremely long-lived waste that is costly and highly problematic to deal with. Therefore, it is critically important ot understand the environmental implications of radionuclides for ecosystems and human health if nuclear energy is to be used to avoid the impending global energy crisis. The present volume of the EIC Books series addresses this critical need by providing fundamental information on environmentally significant radionuclides. The content of this book was developed in collaboration with many of the authors of the chapters. Given the enormity of the subject the Editor and the Authors had to be judicious in selecting the chapters that would appropriately encompass and describe the primary topics, particularly those that are of importance to the health of ecosystems and humans. The resulting chapters were chosen to provide this information in a book of useful and appropriate length. Each chapter provides fundamental information on the chemistry of the radionuclides, their occurrence and movement in the enivornment, separation and analyses, and the technologies needed for their remediation and mitigation. The chapters are structured with a common, systematic format in order to facilitate comparions between elements and groups of elements. About EIC Books The Encyclopedia of Inorganic Chemistry (EIC) has proved to be one of the defining standards in inorganic chemistry, and most chemistry libraries around the world have access either to the first of second print editon, or to the online version. Many readers, however, prefer to have more concise thematic volumes, targeted to their specific area of interest. This feedback from EIC readers has encouraged the Editors to plan a series of EIC Books, focusing on topics of current interest. They will appear on a regular basis, and will feature leading scholars in their fields. Like the Encyclopedia, EIC Books aims to provide both the starting research student and the confirmed research worker with a critical distillation of the leading concepts in inorganic and bioinorganic chemistry, and provide a structured entry into the fields covered. This volume is also available as part of Encyclopedia of Inorganic Chemistry, 5 Volume Set. This set combines all volumes published as EIC Books from 2007 to 2010, representing areas of key developments in the field of inorganic chemistry published in the Encyclopedia of Inorganic Chemistry. Find out more.

journal of environmental chemical engineering impact factor: Energy, Sustainability and the Environment Fereidoon Sioshansi, 2011-06-02 The complexity of carbon reduction and economic sustainability is significantly complicated by competing aspects of socioeconomic practices as well as legislative, regulatory, and scientific requirements and protocols. An easy to read and understand guide, Sioshansi, along with an international group of contributors, moves through the maze of carbon reduction methods and technologies, providing steps and insights to meet carbon reduction requirements and maintaining the health and welfare of the firm. The book's three part treatment is based on a clear and rigorous exposition of a wide range of options to reduce the carbon footprint Part 1 of the book, Challenge of Sustainability, examines the fundamental drivers of energy demand – economic growth, the need for basic energy services, and the interdependence of economic, political, environmental, social, equity, legacy and policy issues. Part 2 of the book, Technological Solutions, examines how energy can be used to support basic energy service needs of homes, commercial and industrial facilities and for other applications. Part 3 of the book, case studies, covers a number of innovative projects, initiatives, concepts or self-imposed targets in

different parts of the world with the aim of significantly reducing energy use and carbon footprint of a company, a community, a city or an entire country. There was a widespread recognition among environmental engineers and energy economist of the importance of carbon reduction while sustaining the firm's economic growth. The only book to bring together both subjects into one easy to understand reference, Carbon Reduction and Economic Sustainability not only clearly explains which option has the lowest energy/carbon footprint but also which option would better suit the business in question. This includes carbon reduction for residential, transport, industrial and public sectors. - The only book to clearly explain the economic and environmental engineering aspects of carbon reduction. - Case studies taken from a number of international projects. - Carbon reduction options for all sectors of society. - The role of the planning system in carbon reduction.

journal of environmental chemical engineering impact factor: Cell Culture Engineering Wei-Shu Hu, 2006-08-16 Since the introduction of recombinant human growth hormone and insulin a quarter century ago, protein therapeutics has greatly broadened the ho- zon of health care. Many patients suffering with life-threatening diseases or chronic dysfunctions, which were medically untreatable not long ago, can attest to the wonder these drugs have achieved. Although the ?rst generation of p- tein therapeutics was produced in recombinant Escherichia coli, most recent products use mammalian cells as production hosts. Not long after the ?rst p- duction of recombinant proteins in E. coli, it was realized that the complex tasks of most post-translational modi?cations on proteins could only be ef?ciently carried out in mammalian cells. In the 1990s, we witnessed a rapid expansion of mammalian-cell-derived protein therapeutics, chie?y antibodies. In fact, it has been nearly a decade since the market value of mammalian-cell-derived protein therapeutics surpassed that of those produced from E. coli. A common characteristic of recent antibody products is the relatively large dose required for effective therapy, demanding larger quantities for the treatment of a given disease. This, coupled with the broadening repertoire of protein drugs, has rapidly expanded the quantity needed for clinical applications. The increasing demand for protein therapeutics has not been met exclusively by construction of new manufacturing plants and increasing total volume capacity. More - portantly the productivity of cell culture processes has been driven upward by an order of magnitude in the past decade.

journal of environmental chemical engineering impact factor: Distillation And Absorption K E Porter, 1992-12-29 Contains the papers presented at a symposium which aimed to address and record changes in distillation and absorption and to discuss new directions. Topics covered include: column sequencing; equipment; batch distillation; azeotropic and extractive distillation; packed columns and more.

journal of environmental chemical engineering impact factor: Health Effects of Indoor Air Pollution Mohammad Hadi Dehghani, Rama Rao Karri, Teresa Vera, Salwa Kamal Mohamed Hassan, 2024-04-01 Health Effects of Indoor Air Pollution, Volume Two, Air Pollution, Human Health, and the Environment is part of a three volume series. This volume covers the various classifications of indoor air pollutants and discusses the health impact of indoor pollutants, such as gaseous pollutants and particulate matter. It also examines epidemiological studies related to different air pollutants on health and the workplace. This book begins with an overview of classifications, sources, and occurrences of indoor air pollutants. It also examines the environmental and health impacts due to organic and inorganic air pollutants and how to mitigate them through exposure and risk management. Other sections explore sick building syndrome, which causes acute health and discomfort that appears to be linked to time spent in a building. Recent trends and control strategies for occupation exposure due to poor indoor air quality in industrial and nonindustrial workplaces to human health are also covered. This book is a valuable reference for academicians, researchers, and students in environmental health, public health, and occupational health, as well as environmental engineers, meteorologists, epidemiologists, medical researchers, and environmental toxicologists. - Reviews sources and occurrences of organic and inorganic air pollutants - Examines the health impact, such as sick building syndrome, and the effect of gaseous indoor pollutants and fine particulate matter on sensitive populations - Discusses indoor air quality

and the link between ventilation, indoor air pollutants, and environmental quality

journal of environmental chemical engineering impact factor: Pain Management and the Opioid Epidemic National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Health Sciences Policy, Committee on Pain Management and Regulatory Strategies to Address Prescription Opioid Abuse, 2017-09-28 Drug overdose, driven largely by overdose related to the use of opioids, is now the leading cause of unintentional injury death in the United States. The ongoing opioid crisis lies at the intersection of two public health challenges: reducing the burden of suffering from pain and containing the rising toll of the harms that can arise from the use of opioid medications. Chronic pain and opioid use disorder both represent complex human conditions affecting millions of Americans and causing untold disability and loss of function. In the context of the growing opioid problem, the U.S. Food and Drug Administration (FDA) launched an Opioids Action Plan in early 2016. As part of this plan, the FDA asked the National Academies of Sciences, Engineering, and Medicine to convene a committee to update the state of the science on pain research, care, and education and to identify actions the FDA and others can take to respond to the opioid epidemic, with a particular focus on informing FDA's development of a formal method for incorporating individual and societal considerations into its risk-benefit framework for opioid approval and monitoring.

journal of environmental chemical engineering impact factor: Inorganic Materials for Energy, Medicine and Environmental Remediation Saravanan Rajendran, Mu. Naushad, Dai-Viet N. Vo, Eric Lichtfouse, 2021-11-25 This book presents concepts, methods and applications of inorganic nanomaterials for energy applications such as fuel cells and batteries, for environmental applications such as water purification, and for medicinal applications such as cancer treatments. The founding father of nanotechnology, Eric Drexler, always communicated a unique vision in exploring new materials and creating advancements in molecular nanotechnology. He emphasized the potential advantages of smaller size, higher efficiency and less needed resources for applications in energy, environment and medicine. A higher surface to volume ratio of inorganic nanomaterials is a key property.

journal of environmental chemical engineering impact factor: Success and Creativity in Scientific Research David S. Sholl, 2021-03-11 Long-term success in scientific research requires skills that go well beyond technical prowess. Success and Creativity in Scientific Research: Amaze Your Friends and Surprise Yourself is based on a popular series of lectures the author has given to PhD students, postdoctoral researchers, and faculty at the Georgia Institute of Technology. Both entertaining and thought-provoking, this essential work supports advanced students and early career professionals across a variety of technical disciplines to thrive as successful and innovative researchers. Features: Discusses habits needed to find deep satisfaction in research, systematic and proven methods for generating good ideas, strategies for effective technical writing, and making compelling presentations Uses a conversational tone, making extensive use of anecdotes from scientific luminaries to engage readers Provides actionable methods to help readers achieve long-term career success Offers memorable examples to illustrate general principles Features topics relevant to researchers in all disciplines of science and engineering This book is aimed at students and early career professionals who want to achieve the satisfaction of performing creative and impactful research in any area of science or engineering.

journal of environmental chemical engineering impact factor: Neoteric Developments in Management Science in Engineering Jiuping Xu, 2023-04-24 Management science in engineering (MSE) is becoming increasingly important in modern society. In particular, the emergence of efficient and innovative management tools has greatly influenced the progress of management science in engineering research. As research is critical to the dissemination of cutting-edge methods, journal evaluation and classification are essential for scientists, researchers, engineers, practitioners, and graduate students. The goal of this book is to identify the major research categories in MSE and to evaluate and classify each MSE journal. This book was compiled through the combined efforts of members of scientific committees (many of whom are editors-in-chief of the

most relevant journals), academics, researchers from different countries, and members of professional societies. It will be of interest to scientists, researchers, practitioners, engineers, graduate and advanced undergraduate students in the fields of engineering management, civil engineering, industrial engineering, environmental engineering, energy engineering, information engineering, and agricultural engineering.

journal of environmental chemical engineering impact factor: Earth Science and Applications from Space National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Earth Science and Applications from Space: A Community Assessment and Strategy for the Future, 2007-10-01 Natural and human-induced changes in Earth's interior, land surface, biosphere, atmosphere, and oceans affect all aspects of life. Understanding these changes requires a range of observations acquired from land-, sea-, air-, and space-based platforms. To assist NASA, NOAA, and USGS in developing these tools, the NRC was asked to carry out a decadal strategy survey of Earth science and applications from space that would develop the key scientific questions on which to focus Earth and environmental observations in the period 2005-2015 and beyond, and present a prioritized list of space programs, missions, and supporting activities to address these questions. This report presents a vision for the Earth science program; an analysis of the existing Earth Observing System and recommendations to help restore its capabilities; an assessment of and recommendations for new observations and missions for the next decade; an examination of and recommendations for effective application of those observations; and an analysis of how best to sustain that observation and applications system.

journal of environmental chemical engineering impact factor: Handbook of Wastewater Reclamation and Reuse Donald R. Rowe, Isam Mohammed Abdel-Magid, 2020-07-09 This comprehensive reference provides thorough coverage of water and wastewater reclamation and reuse. It begins with an introductory chapter covering the fundamentals, basic principles, and concepts. Next, drinking water and treated wastewater criteria, guidelines, and standards for the United States, Europe and the World Health Organization (WHO) are presented. Chapter 3 provides the physical, chemical, biological, and bacteriological characteristics, as well as the radioactive and rheological properties, of water and wastewater. The next chapter discusses the health aspects and removal treatment processes of microbial, chemical, and radiological constituents found in reclaimed wastewater. Chapter 5 discusses the various wastewater treatment processes and sludge treatment and disposal. Risk assessment is covered in chapter 6. The next three chapters cover the economics, monitoring (sampling and analysis), and legal aspects of wastewater reclamation and reuse. This practical handbook also presents real-world case studies, as well as sources of information for research, potential sources for research funds, and information on current research projects. Each chapter includes an introduction, end-of-chapter problems, and references, making this comprehensive text/reference useful to both students and professionals.

journal of environmental chemical engineering impact factor: Wastewater-Based Epidemiology for the Assessment of Human Exposure to Environmental Pollutants Mohammad Hadi Dehghani, Rama Rao Karri, Nikolaos Rousis, Emma Gracia-Lor, 2023-07-30 Wastewater-based Epidemiology for the Assessment of Human Exposure to Environmental Pollutants discusses wastewater-based epidemiology (WBE) and its use in risk assessment and monitoring of human exposure to hazardous pollutants and pathogens. The book explores the health impacts of organic and inorganic pollutants from pesticides, heavy metals, pharmaceuticals, phthalates, personal care products, and endocrine disruptors in the wastewater environment. The book examines the application of wastewater-based epidemiology in determining health risk and exposure to infectious diseases caused by viruses, such as SARS-CoV-2, parasites, and bacteria. Other topics include detection techniques, sampling techniques, analytical methods, biomarkers, and the use of biosensors in wastewater-based epidemiology studies. - Presents evidence mapping to identify emerging areas in wastewater-based epidemiology studies - Offers expansion and diversification strategies in pandemic conditions to serve immediate public health goals - Explains the surveillance of the spread of pathogens through wastewater

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journal of environmental chemical engineering impact factor: *A Research Strategy for Environmental, Health, and Safety Aspects of Engineered Nanomaterials* National Research Council, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Board on Environmental Studies and Toxicology, Committee to Develop a Research Strategy for Environmental, Health, and Safety Aspects of Engineered Nanomaterials, 2012-05-09 The nanotechnology sector, which generated about $225 billion in product sales in 2009, is predicted to expand rapidly over the next decade with the development of new technologies that have new capabilities. The increasing production and use of engineered nanomaterials (ENMs) may lead to greater exposures of workers, consumers, and the environment, and the unique scale-specific and novel properties of the materials raise questions about their potential effects on human health and the environment. Over the last decade, government agencies, academic institutions, industry, and others have conducted many assessments of the environmental, health, and safety (EHS) aspects of nanotechnology. The results of those efforts have helped to direct research on the EHS aspects of ENMs. However, despite the progress in assessing research needs and despite the research that has been funded and conducted, developers, regulators, and consumers of nanotechnology-enabled products remain uncertain about the types and quantities of nanomaterials in commerce or in development, their possible applications, and their associated risks. A Research Strategy for Environmental, Health, and Safety Aspects of Engineered Nanomaterials presents a strategic approach for developing the science and research infrastructure needed to address uncertainties regarding the potential EHS risks of ENMs. The report summarizes the current state of the science and high-priority data gaps on the potential EHS risks posed by ENMs and describes the fundamental tools and approaches needed to pursue an EHS risk research strategy. The report also presents a proposed research agenda, short-term and long-term research priorities, and estimates of needed resources and concludes by focusing on implementation of the research strategy and

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