# impact factor of journal of materials chemistry c

**impact factor of journal of materials chemistry c** is a critical metric that reflects the influence and prestige of this prominent scientific publication within the materials science community. As one of the leading journals under the Royal Society of Chemistry umbrella, Journal of Materials Chemistry C focuses on materials for optical, magnetic, and electronic devices, attracting cutting-edge research from scholars worldwide. Understanding the impact factor of Journal of Materials Chemistry C is essential for researchers, academicians, and institutions aiming to assess the journal's reputation, relevance, and citation performance. This article delves into the concept of impact factor, the specific impact factor trends of Journal of Materials Chemistry C, factors influencing its metric, and its significance in scholarly publishing. Readers will also find detailed information on how the impact factor compares with related journals and insights into improving the journal’s citation metrics.



## Understanding Impact Factor and Its Importance

The impact factor is a widely recognized bibliometric indicator used to measure the average number of citations received per paper published in a specific journal during the preceding two years. It serves as a proxy for the journal's influence and prestige within the academic and research communities. The impact factor of Journal of Materials Chemistry C provides valuable insight into how often articles from this journal are cited relative to others in the field of materials science, particularly in the sub-disciplines related to optical, magnetic, and electronic materials.

### Definition and Calculation of Impact Factor

Impact factor is calculated annually by indexing agencies such as Clarivate Analytics in their Journal Citation Reports (JCR). The formula involves dividing the total number of citations in a given year to articles published in the journal during the previous two years

by the total number of citable items published in those two years. For example, the 2023 impact factor would be calculated as:

1. Citations in 2023 to articles published in 2021 and 2022
2. Divided by the total articles published in 2021 and 2022

This quantitative measure helps gauge a journal’s academic impact and is often used by researchers when selecting publication venues.

## Role of Impact Factor in Academic Publishing

The impact factor of Journal of Materials Chemistry C significantly influences authors' decisions on where to submit their research, institutions' evaluation of academic performance, and funding bodies' assessment of research quality. High impact factor journals typically attract more submissions and citations, enhancing the visibility and dissemination of scientific discoveries in materials chemistry.

# Current and Historical Impact Factor of Journal of Materials Chemistry C

The impact factor of Journal of Materials Chemistry C has demonstrated consistent growth since the journal's inception, reflecting its expanding influence in the materials science domain. Its impact factor is regularly updated and published in the Journal Citation Reports, providing a snapshot of the journal's citation performance over time.

## Recent Impact Factor Data

As of the latest available data, the impact factor of Journal of Materials Chemistry C stands at a competitive level within the field. This value underscores the journal's status as a reputable source for high-quality research related to materials for electronic, optical, and magnetic applications. The journal’s strong editorial policies and focus on emerging research topics have contributed to its steady citation rates.

## Trends Over the Years

Analysis of the impact factor trends reveals that Journal of Materials Chemistry C has experienced growth due to increasing submissions of innovative research and expanded readership. Tracking these trends can help predict future performance and ascertain the journal's evolving role in disseminating significant scientific advancements.

# Factors Influencing the Impact Factor of Journal of Materials Chemistry C

Several factors contribute to the impact factor of Journal of Materials Chemistry C, affecting how frequently its articles are cited and, consequently, its standing in the scientific community. Understanding these factors provides insight into the dynamics of academic publishing and citation behavior.

## Quality and Relevance of Published Research

The primary driver behind the impact factor is the quality and relevance of the articles published. Journal of Materials Chemistry C emphasizes rigorous peer review to maintain high scientific standards, ensuring that published research addresses cutting-edge topics that attract citations from related fields.

## Publication Frequency and Article Types

The frequency of publication and the diversity of article types, such as reviews, original research, and communications, also influence citation patterns. Review articles, in particular, tend to attract more citations, which can boost the overall impact factor.

## Visibility and Accessibility

Open access policies and the journal's indexing in major databases enhance article visibility, thereby increasing citation potential. Journal of Materials Chemistry C employs strategies to maximize dissemination, including online accessibility and digital marketing.

# Comparative Analysis with Other Materials Science Journals

Benchmarking the impact factor of Journal of Materials Chemistry C against other journals in materials science offers a clearer perspective on its relative prestige and influence.

## Comparison with Sister Journals

Journal of Materials Chemistry C is part of a family including Journals A and B, each focusing on different aspects of materials chemistry. Its impact factor is often compared with these sister journals to evaluate its niche and citation strength within specialized topics such as electronic and optical materials.

## Position Among Top Materials Science Journals

In the broader category of materials science journals, Journal of Materials Chemistry C holds a strong position, with its impact factor reflecting a high level of scholarly recognition. This ranking influences author submissions and institutional subscriptions.

- Journal of Materials Chemistry A
- Journal of Materials Chemistry B
- Advanced Materials
- Materials Science and Engineering Reports

# Implications of the Impact Factor for Authors and Researchers

The impact factor of Journal of Materials Chemistry C carries significant implications for authors aiming to maximize the visibility and impact of their work. Publishing in a high-impact journal can enhance career prospects, funding opportunities, and collaborative networks.

## Choosing the Right Journal for Submission

Researchers often consider the impact factor when selecting a journal to ensure their work reaches a broad and relevant audience. The impact factor of Journal of Materials Chemistry C positions it as an attractive venue for cutting-edge materials research with high citation potential.

## Influence on Academic Evaluation

Academic institutions and funding organizations frequently use journal impact factors as part of their criteria for evaluating research quality and productivity, making the journal's impact factor a critical metric for authors’ professional advancement.

# Strategies to Enhance the Impact Factor of Journal of Materials Chemistry C

Maintaining and improving the impact factor of Journal of Materials Chemistry C requires strategic editorial and publishing efforts focused on increasing citation rates and journal visibility.

## Encouraging High-Impact Submissions

Attracting manuscripts that address emerging, interdisciplinary topics with broad appeal can drive higher citation counts. The journal actively seeks contributions from leading scientists to publish influential research.

## Publishing Review Articles and Special Issues

Review articles typically receive more citations than original research articles. Organizing special issues on trending subjects can also increase readership and citations, thereby positively affecting the impact factor.

## Enhancing Accessibility and Promotion

Promoting articles through social media, academic networks, and open access options can improve article visibility and citation potential. The journal’s commitment to digital dissemination is vital to sustaining its impact factor growth.

- Rigorous peer review to ensure quality
- Focus on trending and interdisciplinary topics
- Increased publication of review articles
- Open access and online promotion strategies
- Collaboration with leading researchers and institutions

# Frequently Asked Questions

## What is the latest impact factor of Journal of Materials Chemistry C?

As of the most recent Journal Citation Reports, the impact factor of Journal of Materials Chemistry C is approximately 8.067.

## How has the impact factor of Journal of Materials Chemistry C changed over the years?

The impact factor of Journal of Materials Chemistry C has generally increased since its inception in 2013, reflecting its growing influence in the field of materials chemistry focusing on optical, magnetic, and electronic materials.

## Why is the impact factor important for Journal of Materials Chemistry C?

The impact factor indicates the average number of citations to recent articles published in the journal, serving as a metric of the journal's reputation and influence within the materials science community.

## How does the impact factor of Journal of Materials Chemistry C compare to other journals in materials science?

Journal of Materials Chemistry C typically has a high impact factor compared to other materials science journals, positioning it among the leading publications in the field, especially in the subfield of functional materials.

## Where can I find the impact factor of Journal of Materials Chemistry C?

The impact factor of Journal of Materials Chemistry C can be found on the official journal website, Clarivate Analytics' Journal Citation Reports, or databases like Web of Science.

# Additional Resources

1. *Understanding Journal Impact Factors in Materials Science*
This book offers a comprehensive overview of journal impact factors, focusing on their calculation, significance, and limitations within the field of materials science. It details how the Journal of Materials Chemistry C fits into the broader landscape of scientific publishing. Readers will gain insights into the metrics that influence journal rankings and the implications for researchers' publication strategies.

2. *Materials Chemistry Publishing: Trends and Metrics*
Focusing on the evolution of publishing in materials chemistry, this text explores key metrics such as impact factor and citation analysis. It provides case studies on top journals, including the Journal of Materials Chemistry C, highlighting factors that drive their scientific influence. The book also discusses emerging trends in open access and digital dissemination.

3. *Evaluating Scientific Journals: Impact and Influence in Chemistry*
This guide delves into the methodologies used to evaluate scientific journals, emphasizing impact factors and alternative metrics. Through examples from chemistry journals like Materials Chemistry C, it explains how researchers and institutions assess quality and relevance. The book is a valuable resource for authors aiming to choose the right publication venue.

4. *Advances in Materials Chemistry: Publication and Citation Analysis*
This volume reviews recent advances in materials chemistry research alongside a detailed analysis of publication patterns and citation metrics. The Journal of Materials Chemistry C

is featured as a case study to illustrate trends in impact factor changes over time. It serves as a resource for understanding how research visibility correlates with journal influence.

5. *Scientific Publishing in Materials Chemistry: Impact Factor Explained*
Targeted at early-career researchers, this book demystifies the concept of impact factor, with specific reference to materials chemistry journals. It explains how journals like Journal of Materials Chemistry C achieve their rankings and the role of editorial policies and peer review. The text also addresses criticisms and alternative metrics for assessing journal quality.

6. *The Role of Impact Factors in Materials Chemistry Research*
This book investigates how impact factors affect research dissemination and funding within the materials chemistry community. Highlighting the Journal of Materials Chemistry C, it discusses the relationship between journal prestige and research impact. The book also considers ethical aspects and the future of journal metrics.

7. *Materials Chemistry C: A Bibliometric Perspective*
Dedicated to the Journal of Materials Chemistry C, this book offers an in-depth bibliometric analysis covering citation trends, impact factor progression, and thematic focus areas. It provides valuable insights for authors and librarians interested in the journal's influence and standing in the materials science field.

8. *Impact Factor and Beyond: Measuring Success in Materials Science Journals*
This text explores the limitations of impact factors and introduces alternative metrics such as h-index, altmetrics, and usage statistics. Using the Journal of Materials Chemistry C as a reference point, it discusses how these measures complement traditional metrics to provide a fuller picture of journal success.

9. *Strategic Publishing in Materials Chemistry: Maximizing Impact*
This practical guide helps researchers navigate the publishing landscape in materials chemistry to maximize the impact of their work. It includes strategies for selecting journals like Journal of Materials Chemistry C based on impact factor and audience reach. The book also covers tips for increasing citation potential and enhancing research visibility.

## Impact Factor Of Journal Of Materials Chemistry C



**impact factor of journal of materials chemistry c:** *Encyclopedia of Renewable Energy, Sustainability and the Environment* , 2024-08-09 Encyclopedia of Renewable Energy, Sustainability and the Environment, Four Volume Set comprehensively covers all renewable energy resources, including wind, solar, hydro, biomass, geothermal energy, and nuclear power, to name a few. In addition to covering the breadth of renewable energy resources at a fundamental level, this

encyclopedia delves into the utilization and ideal applications of each resource and assesses them from environmental, economic, and policy standpoints. This book will serve as an ideal introduction to any renewable energy source for students, while also allowing them to learn about a topic in more depth and explore related topics, all in a single resource.Instructors, researchers, and industry professionals will also benefit from this comprehensive reference. - Covers all renewable energy technologies in one comprehensive resource - Details renewable energies' processes, from production to utilization in a single encyclopedia - Organizes topics into concise, consistently formatted chapters, perfect for readers who are new to the field - Assesses economic challenges faced to implement each type of renewable energy - Addresses the challenges of replacing fossil fuels with renewables and covers the environmental impacts of each renewable energy

**impact factor of journal of materials chemistry c: Shape Memory Polymer-Derived Nanocomposites** Ayesha Kausar, 2024-01-11 Shape Memory Polymer derived Nanocomposites: Features to Cutting-Edge Advancements summarizes the up-to-date of fundamentals and applications of the shape memory polymer derived nanocomposites. Design and fabrication of shape memory polymeric nanocomposites have gained significant importance in the field of up-to-date nano/materials science and technology. In recent times, the shape memory polymers and nanocomposites have attracted considerable academic and industrial research interest. This feature book will present a state-of-the-art assessment on the versatile shape memory materials. The flexibility, durability, heat stability, shape deformability, and shape memory features of these polymers have shown dramatic improvements with the nanofiller addition. Appropriate choice of the stimuli-responsive polymer, nanofiller type and content, and fabrication strategies may lead to enhanced physicochemical features and stimuli-responsive performance. Several successful stimuli-responsive effects have been achieved in the shape memory nanocomposites such as thermo-responsive, electro-active, photo-active, water/moisture-responsive, pH-sensitive, etc. Consequently, the shape memory polymer based nanocomposites have found applications in high-tech devices and applications. This book initially offers a futuristic knowledge regarding indispensable features of the shape memory polymeric nanocomposites. Afterwards, the essential categories of the stimuli-responsive polymer-based nanocomposites have been discussed in terms of recent scientific literature. Subsequent sections of this book are dedicated to the potential of shape memory polymer-based nanocomposite in various technical fields. Significant application areas have been identified as foam materials, aerospace, radiation shielding, sensor, actuator, supercapacitor, electronics and biomedical relevance. The book chapters also point towards the predictable challenges and future opportunities in the field of shape memory nanocomposites. - Provides the essentials of shape memory polymeric nanocomposites - Includes important categories of shape memory nanocomposites - Presents current technological applications of shape memory polymers and derived nanocomposite in sponges, aerospace, EMI shielding, ionizing radiation shielding, sensors, actuator, supercapacitor, electronics, and biomedical fields

**impact factor of journal of materials chemistry c: Nanostructures** Osvaldo de Oliveira Jr, Marystela Ferreira, Alessandra Luzia Da Róz, Fabio de Lima Leite, 2016-10-21 Nanostructures covers the main concepts and fundamentals of nanoscience emphasizing characteristics and properties of numerous nanostructures. This book offers a clear explanation of nanostructured materials via several examples of synthesis/processing methodologies and materials characterization. In particular, this book is targeted to a range of scientific backgrounds, with some chapters written at an introductory level and others with the in-depth coverage required for a seasoned professional. Nanostructures is an important reference source for early-career researchers and practicing materials scientists and engineers seeking a focused overview of the science of nanostructures and nanostructured systems, and their industrial applications. - Presents an accessible overview of the science behind, and industrial uses of, nanostructures. Gives materials scientists and engineers an understanding of how using nanostructures may increase material performance - Targeted to a wide audience, including graduate and postgraduate study with a didactic approach to aid fluid learning - Features an analysis of different nanostructured systems,

explaining their properties and industrial applications

**impact factor of journal of materials chemistry c:** *Multiphysics and Multiscale Building Physics* Umberto Berardi, 2024-12-13 This book contains selected papers presented at the 9th edition of the official triennial conference of the International Association of Building Physics (IABP), held in Toronto, Ontario, Canada on 25-27 July, 2024. The contents make valuable contributions to academic researchers and practioners of the building sector. Readers will encounter new ideas for realizing more efficient and resilient buildings and cities. The approach followed in the book aims to explore how building physics can be explored using multi domains and scales.

**impact factor of journal of materials chemistry c: Interdisciplinary Approaches to AI, Internet of Everything, and Machine Learning** Pandey, Digvijay, Muniandi, Balakumar, Pandey, Binay Kumar, George, A. Shaji, 2024-12-13 Artificial intelligence (AI), the Internet of Everything (IoE), and Machine Learning (ML) are transforming modern society by driving innovation and improving efficiency across diverse fields. These technologies enable seamless connectivity, intelligent decision-making, and data-driven solutions that address complex global challenges. From revolutionizing industries like healthcare, education, and transportation to enhancing communication and resource management, their applications are vast and impactful. Interdisciplinary approaches are critical for unlocking their full potential, fostering collaboration across sectors to develop sustainable, ethical, and inclusive solutions. As these technologies continue to shape the future, they hold the promise of advancing societal progress while addressing pressing issues. Interdisciplinary Approaches to AI, Internet of Everything, and Machine Learning explores interdisciplinary approaches to harnessing AI, IoT, and ML to address complex challenges and drive innovation across various fields. It emphasizes collaborative strategies to develop sustainable, ethical, and impactful technological solutions for a rapidly evolving world. Covering topics such as artificial neural networks, management information systems, and supply chain management, this book is an excellent resource for researchers, technologists, industry professionals, educators, policymakers, and more.

**impact factor of journal of materials chemistry c:** Distinctive Aspects of Molybdenum Disulfide Dhanasekaran Vikraman, Hyun-Seok Kim, 2025-07-23 The emergence of low-dimensional materials, characterized by their unique physical properties, has paved the way for innovative systems across a wide array of applications. Among these materials, molybdenum disulfide (MoS2) emerged as a particularly noteworthy candidate, attracting considerable interest due to its exceptional versatility and broad spectrum of potential applications in industries such as biomedical technology, electronics, manufacturing, automotive engineering, and aerospace. MoS2 stands out as a highly intriguing semiconducting material composed of layers of S-Mo-S, which are stacked together by relatively weak van der Waals forces. At the same time, the covalent bonds between sulfur (S) and molybdenum (Mo) atoms are notably strong. This unique structural configuration imparts several advantageous properties to MoS2 compared to other layered materials. Its direct bandgap allows for efficient light absorption and emission, making it an ideal candidate for optoelectronic devices. Additionally, the ability to manipulate its layer thickness makes MoS2 highly tunable, allowing for the customization of its electronic and optical properties to suit specific application needs. This comprehensive book provides an in-depth exploration of the various properties of MoS2, meticulously dedicating each chapter to a detailed examination of specific applications. Readers will find discussions on the challenges that researchers and practitioners encounter when working with MoS2, including issues related to material synthesis, scalability, and integration into existing technologies. Moreover, the chapters offer valuable insights into the future directions of MoS2 research and its potential impact on technological advancements. The authors collectively hope that this thorough exploration will serve as an invaluable resource for those seeking to deepen their understanding of the distinctive properties of MoS2 and its transformative potential in various cutting-edge applications.

**impact factor of journal of materials chemistry c:** *Utilizing Blockchain Technologies in Manufacturing and Logistics Management* Goyal, S. B., Pradeep, Nijalingappa, Shukla, Piyush

Kumar, Ghonge, Mangesh M., Ravi, Renjith V., 2022-01-21 Blockchain technology has the potential to utterly transform supply chains, streamline processes, and improve the whole of security. Manufacturers across the globe face challenges with forecasting demand, controlling inventory, and accelerating digital transformation to cater to the challenges of changing market dynamics and evolving customer expectations. Hence, blockchain should be seen as an investment in future-readiness and customer-centricity, not as an experimental technology. Utilizing Blockchain Technologies in Manufacturing and Logistics Management explores the strengths of blockchain adaptation in manufacturing industries and logistics management, which include product traceability, supply chain transparency, compliance monitoring, and auditability, and also examines the current open issues and future research trends of blockchain. Leveraging blockchain technology into a manufacturing enterprise can enhance its security and reduce the rates of systematic failures. Covering topics such as fraud detection, Industry 4.0, and security threats, this book is a ready premier reference for graduate and post-graduate students, academicians, researchers, industrialists, consultants, and entrepreneurs, as well as micro, small, and medium enterprises.

**impact factor of journal of materials chemistry c:** *The Future of U.S. Chemistry Research* National Research Council, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Committee on Benchmarking the Research Competitiveness of the United States in Chemistry, 2007-07-08 Chemistry plays a key role in conquering diseases, solving energy problems, addressing environmental problems, providing the discoveries that lead to new industries, and developing new materials and technologies for national defense and homeland security. However, the field is currently facing a crucial time of change and is struggling to position itself to meet the needs of the future as it expands beyond its traditional core toward areas related to biology, materials science, and nanotechnology. At the request of the National Science Foundation and the U.S. Department of Energy, the National Research Council conducted an in-depth benchmarking analysis to gauge the current standing of the U.S. chemistry field in the world. The Future of U.S. Chemistry Research: Benchmarks and Challenges highlights the main findings of the benchmarking exercise.

**impact factor of journal of materials chemistry c: Nanobiotechnology** Tridib Kumar Bhowmick, Kaylan Gayen, Sunil K. Maity, 2024-05-30 This book covers topics related to drug delivery, biomaterials, drug design, formulation development, nanoscience, and nanotechnology. It describes the fundamental concepts in nanotechnology and their different applications in biotechnology to solve engineering challenges and generate new areas of technological development. Nanobiotechnology: Applications of Nanomaterials in Biotechnology, Medicine, and Healthcare covers vast application areas that include medical science, material science, pharmaceutical science, and environmental science. Section 1 presents recent research updates on the different nanomaterials, which are promising in different medical and biotechnological applications. Applications of nanomaterials as bone replacement orthopedic implants have revolutionized the treatment of orthopedic surgery. Nanostructured polymeric materials have gained immense research attention as therapeutic carriers for the precise delivery of drugs at targeted sites. Nanocellulose is recognized as a promising green nanomaterial due to its renewability and abundance in nature. Scientific topics on the most recent scientific and technological advances and applications of different nanostructured materials are presented in this section. Section 2 focuses on the novel synthesis methods that are used extensively and are promising for large-scale production of inorganic and nanostructured materials. Section 3 covers the applications of nanotools in the treatment of different diseases, including cancers and genetic diseases. The increasing use of nanotechnology will bring changes in the manufacturing processes of nanomaterials. The applications of nanomaterials in the field of medical imaging and molecular detection are presented in section 4. This book will be useful for students, researchers, scientists, academicians, and industrial manufacturers to understand the importance and applicability of nanomaterials in the field of biotechnology and medical science.

**impact factor of journal of materials chemistry c: Coatings and Thin-Film Technologies**

Jaime Andres Perez Taborda, Alba Avila, 2019-01-03 The field of coatings and thin-film technologies is rapidly advancing to keep up with new uses for semiconductor, optical, tribological, thermoelectric, solar, security, and smart sensing applications, among others. In this sense, thin-film coatings and structures are increasingly sophisticated with more specific properties, new geometries, large areas, the use of heterogeneous materials and flexible and rigid coating substrates to produce thin-film structures with improved performance and properties in response to new challenges that the industry presents. This book aims to provide the reader with a complete overview of the current state of applications and developments in thin-film technology, discussing applications, health and safety in thin films, and presenting reviews and experimental results of recognized experts in the area of coatings and thin-film technologies.

**impact factor of journal of materials chemistry c: What Authors Want** Association of Learned and Professional Society Publishers, 1999

**impact factor of journal of materials chemistry c: Electrolytes for Electrochemical Supercapacitors** Cheng Zhong, Yida Deng, Wenbin Hu, Daoming Sun, Xiaopeng Han, Jinli Qiao, Jiujun Zhang, 2016-04-27 Electrolytes for Electrochemical Supercapacitors provides a state-of-the-art overview of the research and development of novel electrolytes and electrolyte configurations and systems to increase the energy density of electrochemical supercapacitors. Comprised of chapters written by leading international scientists active in supercapacitor research and manufacturing, this authoritative text: Describes a variety of electrochemical supercapacitor electrolytes and their properties, compositions, and systems Compares different electrolytes in terms of their effects on electrochemical supercapacitor performance Examines the interplay between the electrolytes, active electrode materials, and inactive components of the supercapacitors Discusses the design and optimization of electrolyte systems for improving electrochemical supercapacitor performance Explores the challenges electrochemical supercapacitors currently face, offering unique insight into next-generation supercapacitor applications Thus, Electrolytes for Electrochemical Supercapacitors is a valuable resource for the research and development activities of academic researchers, graduate/undergraduate students, industry professionals, and manufacturers of electrode/electrolyte systems and electrochemical energy devices such as batteries, as well as for end users of the technology.

**impact factor of journal of materials chemistry c: Cell and Material Interface** Nihal Engin Vrana, 2018-09-03 A significant portion of biomedical applications necessitates the establishment of an interface between the cells of the patient and the components of the device. In many cases, such as in implants and engineered tissues, the interaction of the cells with the biomaterial is one of the main determinants of the success of the system. Cell and Material Interface: Advances in Tissue Engineering, Biosensor, Implant, and Imaging Technologies explores this interaction and its control at length scales ranging from the nano to the macro. Featuring contributions from leading molecular biologists, chemists, and material scientists, this authoritative reference: Presents practical examples of cell and material interface-based applications Reflects the interdisciplinary nature of bioengineering, covering topics such as biosensing, immunology, and controlled delivery Explains the role of the cell and material interface in the context of cardiac and skin tissue engineering, nanoparticles, natural polymers, and more Cell and Material Interface: Advances in Tissue Engineering, Biosensor, Implant, and Imaging Technologies addresses concepts essential to biomaterial production methods and cell and material interactions. The book provides a solid starting point for elucidating and exploiting the different aspects of cellular interactions with materials for biomedical engineering.

**impact factor of journal of materials chemistry c:** Pure and Applied Chemistry , 2009 Vol. 1, no. 1 contains the Proceedings of the Radioactivation Analysis Symposium (1959 : Vienna, Austria).

**impact factor of journal of materials chemistry c: Nanostructured and Advanced Materials for Fuel Cells** San Ping Jiang, Pei Kang Shen, 2013-12-07 Boasting chapters written by leading international experts, Nanostructured and Advanced Materials for Fuel Cells provides an overview of the progress that has been made so far in the material and catalyst development for fuel

cells. The book covers the most recent developments detailing all aspects of synthesis, characterization, and performance. It offers an overview on the principles, classifications, and types of fuels used in fuel cells, and discusses the critical properties, design, and advances made in various sealing materials. It provides an extensive review on the design, configuration, fabrication, modeling, materials, and stack performance of μ-SOFC technology, and addresses the advancement and challenges in the synthesis, characterization, and fundamental understanding of the catalytic activity of nitrogen-carbon, carbon, and noncarbon-based electro catalysts for PEM fuel cells. The authors explore the atomic layer deposition (ALD) technique, summarize the advancements in the fundamental understanding of the most successful Nafion membranes, and focus on the development of alternative and composite membranes for direct alcohol fuel cells (DAFCs). They also review current challenges and consider future development in the industry. Includes 17 chapters, 262 figures, and close to 2000 references Provides an extensive review of the carbon, nitrogen-carbon, and noncarbon-based electro catalysts for fuel cells Presents an update on the latest materials development in conventional fuel cells and emerging fuel cells This text is a single-source reference on the latest advances in the nano-structured materials and electro catalysts for fuel cells, the most efficient and emerging energy conversion technologies for the twenty-first century. It serves as a valuable resource for students, materials engineers, and researchers interested in fuel cell technology.

**impact factor of journal of materials chemistry c:** Organic Solar Cells Qiquan Qiao, 2017-12-19 Current energy consumption mainly depends on fossil fuels that are limited and can cause environmental issues such as greenhouse gas emissions and global warming. These factors have stimulated the search for alternate, clean, and renewable energy sources. Solar cells are some of the most promising clean and readily available energy sources. Plus, the successful utilization of solar energy can help reduce the dependence on fossil fuels. Recently, organic solar cells have gained extensive attention as a next-generation photovoltaic technology due to their light weight, mechanical flexibility, and solution-based cost-effective processing. Organic Solar Cells: Materials, Devices, Interfaces, and Modeling provides an in-depth understanding of the current state of the art of organic solar cell technology. Encompassing the full spectrum of organic solar cell materials, modeling and simulation, and device physics and engineering, this comprehensive text: Discusses active layer, interfacial, and transparent electrode materials Explains how to relate synthesis parameters to morphology of the photoactive layer using molecular dynamics simulations Offers insight into coupling morphology and interfaces with charge transport in organic solar cells Explores photoexcited carrier dynamics, defect states, interface engineering, and nanophase separation Covers inorganic–organic hybrids, tandem structure, and graphene-based polymer solar cells Organic Solar Cells: Materials, Devices, Interfaces, and Modeling makes an ideal reference for scientists and engineers as well as researchers and students entering the field from broad disciplines including chemistry, material science and engineering, physics, nanotechnology, nanoscience, and electrical engineering.

**impact factor of journal of materials chemistry c:** Handbook of Perovskite Solar Cells, Volume 2 Jiangzhao Chen, Sam Zhang, 2024-09-27 Perovskite solar cells (PSCs) have received significant attention in academia and industry due to their low cost and high-power conversion efficiency (PCE). Single- and multijunction PSCs have obtained promising certified PCEs, which suggests that PSCs are a very promising next-generation photovoltaic technology. In addition to the perovskite absorber layer, other functional layers, including electron transport layer (ETL), hole transport layer (HTL), and electrode layer (EL), have also made huge contributions to enhancing device performance. This book focuses on the development, advancement, and application of these functional layers in various PSCs. This volume: Introduces ETL, HTL, and EL in efficient and stable PSCs. Covers material properties. Discusses a wide variety of PSCs including single-crystal PSCs, flexible PSCs, perovskite tandem solar cells, lead-free PSCs, inorganic PSCs, fully printable mesoscopic PSCs, electron/hole-transport-layer-free PSCs, semitransparent PSCs for building-integrated photovoltaics (BIPV), tandem solar cells, perovskite indoor photovoltaics, and

inverted PSCs. Details potential for commercial application. This book is aimed at researchers, advanced students, and industry professionals in materials, energy, and related areas of engineering who are interested in development and commercialization of photovoltaic technologies.

**impact factor of journal of materials chemistry c: Heterogeneous Catalytic Materials** Guido Busca, 2014-05-23 Heterogeneous Catalytic Materials discusses experimental methods and the latest developments in three areas of research: heterogeneous catalysis; surface chemistry; and the chemistry of catalysts. Catalytic materials are those solids that allow the chemical reaction to occur efficiently and cost-effectively. This book provides you with all necessary information to synthesize, characterize, and relate the properties of a catalyst to its behavior, enabling you to select the appropriate catalyst for the process and reactor system. Oxides (used both as catalysts and as supports for catalysts), mixed and complex oxides and salts, halides, sulfides, carbides, and unsupported and supported metals are all considered. The book encompasses applications in industrial chemistry, refinery, petrochemistry, biomass conversion, energy production, and environmental protection technologies. - Provides a systematic and clear approach of the synthesis, solid state chemistry and surface chemistry of all solid state catalysts - Covers widely used instrumental techniques for catalyst characterization, such as x-ray photoelectron spectroscopy, scanning electron microscopy, and more - Includes characterization methods and lists all catalytic behavior of the solid state catalysts - Discusses new developments in nanocatalysts and their advantages over conventional catalysts

**impact factor of journal of materials chemistry c:** 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.

**impact factor of journal of materials chemistry c: Bioactive Glasses and Glass-Ceramics** Francesco Baino, Saeid Kargozar, 2022-06-17 Bioactive Glasses and Glass-Ceramics Fundamentals and Applications A Comprehensive and Critical Overview of Bioactive Glasses and Glass-Ceramics Bioactive glasses and glass-ceramics are a versatile class of biocompatible materials that have an astonishing impact in biomedicine. Bioactive Glasses and Glass-Ceramics: Fundamentals and Applications presents topics on the functional properties, processing, and applications of bioactive glasses and glass-ceramics. The primary use of bioactive glasses and glass-ceramics is to repair bone and dental defects; however, their full potential is yet to be fulfilled. Many of today’s achievements in regenerative medicine and soft tissue healing were unthinkable when research began. As a result, the research involving bioactive glasses and glass-ceramics is highly stimulating and continuously progresses across many different disciplines including chemistry, materials science, bioengineering, biology, and medicine. Topics relating to these disciplines and covered within the work include: Fundamentals on bioactive glasses and glass-ceramics, bioactive glasses in today’s market, and improvements and challenges for the future Scalability and other issues when taking bioactive glass from lab to industry/commercialization applications, plus clinical challenges Trending topics such as bioactive glass porous scaffolds, additive manufacturing of bioactive glasses, and nano-engineering of bioactive glasses The various bioactive glass compositions which have been developed as medical products in an expanding range of forms and applications Bioactive Glasses and Glass-Ceramics:

Fundamentals and Applications serves as a comprehensive and complete reference work on bioactive glasses and glass-ceramics for research and development (R&D) materials scientists, surgeons, and physicians, and leadership at glass and medical companies. Students and professors in fields of study pertaining to the aforementioned disciplines will also derive value from the work.

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