

acs biomaterials science engineering impact factor

ACS Biomaterials Science & Engineering Impact Factor: A Comprehensive Guide

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Understanding the ACS Biomaterials Science & Engineering Impact Factor

The ACS Biomaterials Science & Engineering impact factor is a crucial metric used to assess the relative importance and influence of the journal ACS Biomaterials Science & Engineering. It provides a quantitative measure of the average number of citations received per article published in the journal over a specific period (typically the two preceding years). This factor is widely used by researchers, institutions, and funding agencies to evaluate the quality and impact of research published within the field of biomaterials science and engineering. Understanding the nuances of the ACS Biomaterials Science & Engineering impact factor is essential for researchers aiming to maximize their publication reach and impact.

Methodologies for Calculating the Impact Factor

The ACS Biomaterials Science & Engineering impact factor is calculated using a standardized methodology established by Clarivate Analytics' Journal Citation Reports (JCR). This methodology involves several key steps:

1. **Citation Counting:** Clarivate Analytics meticulously counts all citations to articles published in ACS Biomaterials Science & Engineering within a defined period (typically the two preceding years) across a broad range of indexed journals. This process requires sophisticated algorithms and databases to accurately identify and track citations.
1. **Citable Items:** Only citable items are considered in the calculation. This typically includes original research articles, reviews, and other substantial contributions. Letters, editorials, and other less substantial publications are usually excluded.
1. **Journal Self-Citations:** While all citations are initially counted, self-citations (citations within the journal itself) are often adjusted or removed to prevent inflation of the impact factor. This ensures a more accurate reflection of external influence.
1. **Division by the Number of Citable Items:** The total number of citations to articles published in the two preceding years is then divided by the total number of citable items published during the same period. This gives the average number of citations per article, which constitutes the ACS Biomaterials Science & Engineering impact factor.
1. **Data Aggregation and Reporting:** Clarivate Analytics aggregates this data, along with impact factor data for thousands of other journals, and publishes it annually in the Journal Citation Reports.

Approaches to Interpreting the Impact Factor

While the ACS Biomaterials Science & Engineering impact factor provides valuable information, it's essential to interpret it carefully. Several factors can influence the impact factor and should be considered:

Journal Scope: The journal's specific focus within biomaterials science and engineering impacts its citation patterns. A highly specialized journal might have a lower impact factor than a broader, more general journal, even if its articles are highly influential within its niche.

Citation Practices: Citation practices vary across disciplines and geographic regions. Some fields have a higher propensity for citation than others, potentially skewing the impact factor.

Article Type: Review articles tend to receive more citations than original research articles, potentially influencing the overall impact factor.

Publication Bias: Publication bias, where certain types of research are more likely to be published, can also affect the impact factor. Studies showing positive results may be more likely to be published and cited.

Time Lag: The impact factor reflects citations received over a specific period. The impact of a highly influential article may not be fully reflected until several years after its publication.

Beyond the Impact Factor: Alternative Metrics

While the ACS Biomaterials Science & Engineering impact factor remains a prominent metric, alternative metrics are gaining traction as more comprehensive ways to assess research impact. These include:

Altmetric Scores: Altmetric scores measure the attention an article receives across various online platforms, including social media, news outlets, and blogs.

Citation Velocity: Citation velocity tracks the rate at which an article is cited, providing a measure of its immediate impact.

h-index: The h-index measures both the productivity and impact of a researcher or journal by considering the number of publications with a given number of citations.

The Importance of the ACS Biomaterials Science & Engineering Impact Factor for Researchers

The ACS Biomaterials Science & Engineering impact factor plays a significant role in various aspects of a researcher's career:

Grant Applications: Funding agencies often use the journal's impact factor as one of the criteria for evaluating grant proposals. Publishing in a high-impact journal like ACS Biomaterials Science & Engineering can significantly improve the chances of securing funding.

Career Advancement: The journal's impact factor is frequently considered during promotion and tenure

reviews in academic institutions.

Collaboration Opportunities: Publication in high-impact journals can attract the attention of other researchers, leading to potential collaborations and networking opportunities.

Conclusion

The ACS Biomaterials Science & Engineering impact factor serves as a crucial metric for evaluating the journal's influence within the field of biomaterials science and engineering. While it provides a valuable quantitative measure of the average number of citations per article, it's important to interpret the impact factor in context, considering various influencing factors and exploring alternative metrics for a more holistic assessment of research impact. Understanding the methodologies behind its calculation and its limitations is key for researchers seeking to navigate the complexities of scientific publishing and maximize their research's influence.

FAQs

1. What is the current impact factor of ACS Biomaterials Science & Engineering? The current impact factor can be found on the Journal Citation Reports (JCR) website or the ACS Biomaterials Science & Engineering journal website. It fluctuates annually.
1. How is the ACS Biomaterials Science & Engineering impact factor calculated? The impact factor is calculated by dividing the number of citations received by articles published in the journal during the past two years by the total number of citable articles published in those two years.
1. Why is the ACS Biomaterials Science & Engineering impact factor important for researchers? It's crucial for grant applications, career advancement, and attracting collaborations.
1. Are there any limitations to using the ACS Biomaterials Science & Engineering impact factor? Yes, it can be influenced by publication bias, citation practices, and journal scope. It doesn't capture all aspects of research impact.

1. What are some alternative metrics to the impact factor? Altmetric scores, citation velocity, and h-index provide additional perspectives on research impact.
1. How often is the ACS Biomaterials Science & Engineering impact factor updated? It's updated annually by Clarivate Analytics.
1. Where can I find the ACS Biomaterials Science & Engineering impact factor? The JCR website and the journal's website are the best sources.
1. Does a high ACS Biomaterials Science & Engineering impact factor guarantee high-quality research? No, it's an indicator of influence but not a definitive measure of quality. Careful peer review remains crucial.
1. How can I improve my chances of publishing in ACS Biomaterials Science & Engineering? Conduct rigorous research, write a clear and well-structured manuscript, and ensure it addresses a significant gap in the field.

Related Articles:

1. "The Impact of Open Access on the ACS Biomaterials Science & Engineering Impact Factor": This article analyzes how the shift towards open access publishing affects citation patterns and the journal's impact factor.
1. "Comparing the Impact Factor of ACS Biomaterials Science & Engineering with Other Leading Biomaterials Journals": A comparative analysis of impact factors across different journals in the biomaterials field.

1. "The Role of Altmetrics in Assessing the Impact of Articles Published in ACS Biomaterials Science & Engineering": Explores the use of alternative metrics to supplement the impact factor.

1. "Citation Analysis of Highly Cited Articles in ACS Biomaterials Science & Engineering: Trends and Patterns": A detailed analysis of citation patterns for highly influential papers.

1. "The Influence of Peer Review on the Quality and Impact Factor of ACS Biomaterials Science & Engineering": Examines the role of peer review in maintaining the journal's quality and impact.

1. "Predicting the Future Impact Factor of ACS Biomaterials Science & Engineering: A Data-Driven Approach": Uses statistical models to predict future trends in the journal's impact factor.

1. "Strategies for Maximizing the Citation Impact of Your Research in ACS Biomaterials Science & Engineering": Practical tips for researchers to enhance their publications' visibility and citations.

1. "The Ethical Implications of Using Impact Factor as a Primary Metric for Research Evaluation": A critical discussion of the ethical considerations surrounding the use of impact factor in research assessment.

1. "A Case Study: How One Research Article Published in ACS Biomaterials Science & Engineering Achieved High Citation Impact": An in-depth analysis of a successful research publication.

acs biomaterials science engineering impact factor: Nanodroplets Zhiming M. Wang,
2014-01-08 Nanodroplets, the basis of complex and advanced nanostructures such as quantum rings,

quantum dots and quantum dot clusters for future electronic and optoelectronic materials and devices, have attracted the interdisciplinary interest of chemists, physicists and engineers. This book combines experimental and theoretical analyses of nanosized droplets which reveal many attractive properties. Coverage includes nanodroplet synthesis, structure, unique behaviors and their nanofabrication, including chapters on focused ion beam, atomic force microscopy, molecular beam epitaxy and the vapor-liquid- solid route. Particular emphasis is given to the behavior of metallic nanodroplets, water nanodroplets and nanodroplets in polymer and metamaterial nanocomposites. The contributions of leading scientists and their research groups will provide readers with deeper insight into the chemical and physical mechanisms, properties, and potential applications of various nanodroplets.

acs biomaterials science engineering impact factor: *Smart Biomaterials* Mitsuhiro Ebara, Yohei Kotsuchibashi, Ravin Narain, Naokazu Idota, Young-Jin Kim, John M. Hoffman, Koichiro Uto, Takao Aoyagi, 2014-05-28 This book provides comprehensive coverage of smart biomaterials and their potential applications, a field that is developing at a very rapid pace. Because smart biomaterials are an emerging class of biomaterials that respond to small changes in external stimuli with large discontinuous changes in their physical properties, they have been designed to act as an "on-off" switch for, among others, bio separation, immunoanalysis, drug delivery technologies, gene therapy, diagnostics, bio sensors and artificial muscles. After an introduction to the topic and the history of smart biomaterials, the author gives the reader an in-depth look at the properties, mechanics, and characterization of smart biomaterials including hydrogels, particles, assemblies, surfaces, fibers and conjugates. Information on the wide range of applications for these materials follows, including drug delivery, tissue engineering, diagnostics, biosensors, bio separation and actuators. In addition, recent advances in shape memory biomaterials as active components of medical devices are also presented.

acs biomaterials science engineering impact factor: *Biofabrication* Gulden Camci-Unal, Pinar Zorlutuna, Ali Khademhosseini, 2013-03-18 Microscale hydrogels are potentially useful materials for controlling cellular behavior to mimic native microenvironments for tissue engineering applications. In this chapter, various fabrication techniques to generate microscale hydrogels and their applications in tissue engineering have been outlined. In addition, we provide examples of microscale hydrogels with different physical and chemical properties for generation of tissue constructs. Finally, we discuss potential future directions in fabrication of hydrogels to address challenges in tissue engineering. It is expected that these techniques will enable engineering of three-dimensional (3D) structures with controlled features for the formation of functional tissues and organs.

acs biomaterials science engineering impact factor: *ACS Style Guide* Anne M. Coghill, Lorrin R. Garson, 2006 In the time since the second edition of The ACS Style Guide was published, the rapid growth of electronic communication has dramatically changed the scientific, technical, and medical (STM) publication world. This dynamic mode of dissemination is enabling scientists, engineers, and medical practitioners all over the world to obtain and transmit information quickly and easily. An essential constant in this changing environment is the requirement that information remain accurate, clear, unambiguous, and ethically sound. This extensive revision of The ACS Style Guide thoroughly examines electronic tools now available to assist STM writers in preparing manuscripts and communicating with publishers. Valuable updates include discussions of markup languages, citation of electronic sources, online submission of manuscripts, and preparation of figures, tables, and structures. In keeping current with the changing environment, this edition also contains references to many resources on the internet. With this wealth of new information, The ACS Style Guide's Third Edition continues its long tradition of providing invaluable insight on ethics in scientific communication, the editorial process, copyright, conventions in chemistry, grammar, punctuation, spelling, and writing style for any STM author, reviewer, or editor. The Third Edition is the definitive source for all information needed to write, review, submit, and edit scholarly and scientific manuscripts.

acs biomaterials science engineering impact factor: Regenerative Engineering Yusuf Khan, Cato T. Laurencin, 2018-04-19 This book focuses on advances made in both materials science and scaffold development techniques, paying close attention to the latest and state-of-the-art research. Chapters delve into a sweeping variety of specific materials categories, from composite materials to bioactive ceramics, exploring how these materials are specifically designed for regenerative engineering applications. Also included are unique chapters on biologically-derived scaffolding, along with 3D printing technology for regenerative engineering. Features: Covers the latest developments in advanced materials for regenerative engineering and medicine. Each chapter is written by world class researchers in various aspects of this medical technology. Provides unique coverage of biologically derived scaffolding. Includes separate chapter on how 3D printing technology is related to regenerative engineering. Includes extensive references at the end of each chapter to enhance further study.

acs biomaterials science engineering impact factor: Polymer Particles Masayoshi Okubo, 2005-02-10 In this special volume on polymer particles, recent trends and developments in the synthesis of nano- to micron-sized polymer particles by radical polymerization (Emulsion, Miniemulsion, Microemulsion, and Dispersion Polymerizations) of vinyl monomers in environmentally friendly heterogeneous aqueous and supercritical carbon dioxide fluid media are reviewed by prominent worldwide researchers. In addition to the important challenges and possibilities with regards to design and preparation of functionalized polymer particles of controlled size, the topics described are of great current interest due to the increased awareness of environmental issues.

acs biomaterials science engineering impact factor: *Silk-Based Biomaterials for Tissue Engineering, Regenerative and Precision Medicine* Subhas C. Kundu, Rui L. Reis, 2023-12-08 *Silk-based Biomaterials for Tissue Engineering, Regenerative and Precision Medicine, Second Edition* is a must-have reference, providing comprehensive coverage of silk-based biomaterials and their importance in translational uses and biomedicine. This new edition considers the progress made in the past eight years, featuring many new chapters, including a discussion of cutting-edge fabrication methods and techniques, new and improved blends/composites, and an expanded range of applications in tissue engineering, regenerative and precision medicine. The book holistically reviews the types, structure and properties, processing methods, and specific biomedical applications for silk-based biomaterials. This will be a vital resource for materials and tissue engineering scientists, R&D departments in industry and academia, and academics interested in biomaterials, regenerative, and precision medicine. - Covers all key silk biomaterial types, including mulberry, Bombyx mori and nonmulberry/wild silk protein fibroins, sericins and spider silk, as well as their composite blends and various structures and scaffold platforms - Describes the cutting-edge processing techniques for each silk type, from traditional to nonconventional methods, such as using ionic liquids and engineering nanofibers and other biomedical matrices - Explores a range of applications in tissue engineering and regenerative and precision medicine, including bioprinting, bioelectronics and medical devices

acs biomaterials science engineering impact factor: Biomaterials Science Buddy D. Ratner, Allan S. Hoffman, Frederick J. Schoen, Jack E. Lemons, 2004-08-18 The second edition of this bestselling title provides the most up-to-date comprehensive review of all aspects of biomaterials science by providing a balanced, insightful approach to learning biomaterials. This reference integrates a historical perspective of materials engineering principles with biological interactions of biomaterials. Also provided within are regulatory and ethical issues in addition to future directions of the field, and a state-of-the-art update of medical and biotechnological applications. All aspects of biomaterials science are thoroughly addressed, from tissue engineering to cochlear prostheses and drug delivery systems. Over 80 contributors from academia, government and industry detail the principles of cell biology, immunology, and pathology. Focus within pertains to the clinical uses of biomaterials as components in implants, devices, and artificial organs. This reference also touches upon their uses in biotechnology as well as the characterization of the

physical, chemical, biochemical and surface properties of these materials. - Provides comprehensive coverage of principles and applications of all classes of biomaterials - Integrates concepts of biomaterials science and biological interactions with clinical science and societal issues including law, regulation, and ethics - Discusses successes and failures of biomaterials applications in clinical medicine and the future directions of the field - Cover the broad spectrum of biomaterial compositions including polymers, metals, ceramics, glasses, carbons, natural materials, and composites - Endorsed by the Society for Biomaterials

acs biomaterials science engineering impact factor: Biomaterials Science William R Wagner, Shelly E. Sakiyama-Elbert, Guigen Zhang, Michael J. Yaszemski, 2020-05-23 The revised edition of the renowned and bestselling title is the most comprehensive single text on all aspects of biomaterials science from principles to applications. Biomaterials Science, fourth edition, provides a balanced, insightful approach to both the learning of the science and technology of biomaterials and acts as the key reference for practitioners who are involved in the applications of materials in medicine. This new edition incorporates key updates to reflect the latest relevant research in the field, particularly in the applications section, which includes the latest in topics such as nanotechnology, robotic implantation, and biomaterials utilized in cancer research detection and therapy. Other additions include regenerative engineering, 3D printing, personalized medicine and organs on a chip. Translation from the lab to commercial products is emphasized with new content dedicated to medical device development, global issues related to translation, and issues of quality assurance and reimbursement. In response to customer feedback, the new edition also features consolidation of redundant material to ensure clarity and focus. Biomaterials Science, 4th edition is an important update to the best-selling text, vital to the biomaterials' community. - The most comprehensive coverage of principles and applications of all classes of biomaterials - Edited and contributed by the best-known figures in the biomaterials field today; fully endorsed and supported by the Society for Biomaterials - Fully revised and updated to address issues of translation, nanotechnology, additive manufacturing, organs on chip, precision medicine and much more. - Online chapter exercises available for most chapters

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acs biomaterials science engineering impact factor: Biomaterials Science and Technology Yaser Dahman, 2019-02-11 Biomaterials Science and Technology: Fundamentals and Developments presents a broad scope of the field of biomaterials science and technology, focusing on theory, advances, and applications. It reviews the fabrication and properties of different classes of biomaterials such as bioinert, bioactive, and bioresorbable, in addition to biocompatibility. It further details traditional and recent techniques and methods that are utilized to characterize major

properties of biomaterials. The book also discusses modifications of biomaterials in order to tailor properties and thus accommodate different applications in the biomedical engineering fields and summarizes nanotechnology approaches to biomaterials. This book targets students in advanced undergraduate and graduate levels in majors related to fields of Chemical Engineering, Materials Engineering and Science, Biomedical Engineering, Bioengineering, and Life Sciences. It assists in understanding major concepts of fabrication, modification, and possible applications of different classes of biomaterials. It is also intended for professionals who are interested in recent advances in the emerging field of biomaterials.

acs biomaterials science engineering impact factor: Nanoengineering of Biomaterials

Sougata Jana, Subrata Jana, 2022-04-18 A comprehensive discussion of various types of nanoengineered biomaterials and their applications In *Nanoengineering of Biomaterials: Drug Delivery & Biomedical Applications*, an expert team of chemists delivers a succinct exploration of the synthesis, characterization, in-vitro and in-vivo drug molecule release, pharmacokinetic activity, pharmacodynamic activity, and the biomedical applications of several types of nanoengineered biomaterials. The editors have also included resources to highlight the most current developments in the field. The book is a collection of valuable and accessible reference sources for researchers in materials chemistry and related disciplines. It uses a functions-directed approach to using organic and inorganic source compounds that translate into biological systems as scaffolds, micelles, dendrimers, and other delivery systems. *Nanoengineering of Biomaterials* offers readers up-to-date chemistry and material science insights that are readily transferrable to biomedical systems. The book also includes: Thorough introductions to alginate nanoparticle delivery of therapeutics and chitosan-based nanomaterials in biological applications Comprehensive explorations of nanostructured carrageenan as a drug carrier, gellan gum nanoparticles in drug delivery, and guar-gum nanoparticles in the delivery of bioactive molecules Practical discussions of protein-based nanoparticles for drug delivery, solid lipid nanoparticles as drug carriers, and pH-responsive nanoparticles in therapy In-depth examinations of stimuli-responsive nano carriers in drug targeting Perfect for pharmaceutical chemists, materials scientists, polymer chemists, life scientists, and medicinal chemists, *Nanoengineering of Biomaterials: Drug Delivery and Biomedical Applications* is also an indispensable resource for biologists and bioengineers seeking a one-stop reference on the transferability of materials chemistry and nanotechnology to biomedicine.

acs biomaterials science engineering impact factor: Radical SAM Enzymes, 2018-08-09

Radical SAM Enzymes, Volume 606, the latest release in the *Methods in Enzymology* series, highlights new advances in the field, with this new volume presenting interesting chapters on the Characterization of the glycyl radical enzyme choline trimethylamine-lyase and its radical S-adenosylmethionine activating enzyme, Diphathimide biosynthesis, Radical SAM glycyl radical activating enzymes, Radical SAM enzyme BioB in the biosynthesis of biotin, Biogenesis of the PQQ cofactor, Role of MoaAC in the biogenesis of the molybdenum cofactor, Biosynthesis of the nitrogenase cofactor, Bioinformatics of the radical SAM superfamily, The involvement of SAM radical enzymes in the biosynthesis of methanogenic coenzymes, methanopterin and coenzyme F420, and more.

acs biomaterials science engineering impact factor: Advances in Regenerative Medicine: Role of Nanotechnology, and Engineering Principles Venkatram Prasad Shastri, George Altankov,

Andreas Lendlein, 2010-08-14 This book summarizes the NATO Advanced Research Workshop (ARW) on "Nanoengineered Systems for Regenerative Medicine" that was organized under the auspices of the NATO Security through Science Program. I would like to thank NATO for supporting this workshop via a grant to the co-directors. The objective of ARW was to explore the various facets of regenerative medicine and to highlight role of the "the nano-length scale" and "nano-scale systems" in defining and controlling cell and tissue environments. The development of novel tissue regenerative strategies require the integration of new insights emerging from studies of cell-matrix interactions, cellular signalling processes, developmental and systems biology, into biomaterials design, via a systems approach. The chapters in the book, written by the leading experts in their

respective disciplines, cover a wide spectrum of topics ranging from stem cell biology, developmental biology, cell-matrix interactions, and matrix biology to surface science, materials processing and drug delivery. We hope the contents of the book will provoke the readership into developing regenerative medicine paradigms that combine these facets into clinically translatable solutions. This NATO meeting would not have been successful without the timely help of Dr. Ulrike Shastri, Sanjeet Rangarajan and Ms. Sabine Benner, who assisted in the organization and implementation of various elements of this meeting. Thanks are also due Dr. Fausto Pedrazzini and Ms. Alison Trapp at NATO HQ (Brussels, Belgium). The commitment and persistence of Ms.

acs biomaterials science engineering impact factor: *Processes and Phenomena on the Boundary Between Biogenic and Abiogenic Nature* Olga V. Frank-Kamenetskaya, Dmitry Yu. Vlasov, Elena G. Panova, Sofia N. Lessovaia, 2019-08-29 The book represents a collection of papers presented at VI International Symposium Biogenic - abiogenic interactions in natural and anthropogenic systems that was held on 24-27 September 2018 in Saint Petersburg (Russia). Papers in this book cover a wide range of topics connecting with interactions between biogenic and abiogenic components in lithosphere, biosphere and technosphere. The main regarding topics are following: methods for studying the interactions between biogenic and abiogenic components; geochemistry of biogenic-abiogenic systems; biomineralization and nature-like materials and technologies; medical geology; biomineralogy and organic mineralogy; biomineral interactions in soil; biodeterioration of natural and artificial materials; biomineral interactions in extreme environment.

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acs biomaterials science engineering impact factor: **3D Bioprinting in Medicine** Murat Guvendiren, 2019-08-02 This book provides current and emerging developments in bioprinting with respect to bioprinting technologies, bioinks, applications, and regulatory pathways. Topics covered include 3D bioprinting technologies, materials such as bioinks and bioink design, applications of bioprinting complex tissues, tissue and disease models, vasculature, and musculoskeletal tissue. The final chapter is devoted to clinical applications of bioprinting, including the safety, ethical, and regulatory aspects. This book serves as a go-to reference on bioprinting and is ideal for students, researchers and professionals, including those in academia, government, the medical industry, and

healthcare.

acs biomaterials science engineering impact factor: Electropolymerization Ewa Schab-Balcerzak, 2011-12-22 In recent years, great focus has been placed upon polymer thin films. These polymer thin films are important in many technological applications, ranging from coatings and adhesives to organic electronic devices, including sensors and detectors. Electrochemical polymerization is preferable, especially if the polymeric product is intended for use as polymer thin films, because electrogeneration allows fine control over the film thickness, an important parameter for fabrication of devices. Moreover, it was demonstrated that it is possible to modify the material properties by parameter control of the electrodeposition process. Electrochemistry is an excellent tool, not only for synthesis, but also for characterization and application of various types of materials. This book provides a timely overview of a current state of knowledge regarding the use of electropolymerization for new materials preparation, including conducting polymers and various possibilities of applications.

acs biomaterials science engineering impact factor: Biomedical Applications of Graphene and 2D Nanomaterials Md Nurunnabi, Jason McCarthy, 2019-03-31 Biomedical Applications of Graphene and 2D Nanomaterials provides a much-needed reference on the biomedical applications of 2D nanomaterials, as well as theoretical knowledge on their structure, physicochemical properties and biomedical applications. Chapters are dedicated to growth areas, such as size and shape-dependent chemical and physical properties and applications, such as in diagnostic and therapeutic products. The book also discusses the concept, development and preclinical studies of 2D nanomaterials-based biomedical tools, such as biosensors, artificial organs and photomedicine. Case studies and reports form the core of the book, making it an ideal resource on potential applications in biomedical science and engineering. This timely resource for scientists and engineers in this rapidly advancing field features contributions from over 30 leaders who address advanced methods and strategies for controlling the physical-chemical properties of 2D nanomaterials, along with expert opinions on a range of 2D nanomaterials that have therapeutic and diagnostic applications. - Presents advanced methods and strategies for controlling the physical-chemical properties of 2D nanomaterials - Provides state-of-the-art biomedical applications for 2D nanomaterials, including graphene and boron nitride - Includes key information from a broad selection of subject areas for researchers in both materials, engineering and medicine

acs biomaterials science engineering impact factor: Modeling of Biological Materials Francesco Mollica, Luigi Preziosi, K. R. Rajagopal, 2007-12-31 This unique collection highlights the central role played by modeling in general, and the modeling of mechanical considerations that have an effect on living matter. The volume collects several survey papers by actively working specialists, dealing with some of the most important problems – both theoretical and practical – in biomechanics. Written in a user-friendly style, these papers clearly explain both the biomedical and mechanical backgrounds associated with complex phenomena. This book may be used in interdisciplinary introductory courses covering various biomechanical topics for graduate students in applied mathematics, engineering, and biomedicine.

acs biomaterials science engineering impact factor: Polymeric Biomaterials: Structure and function Severian Dumitriu, Valentin I. Popa, 2013 The third edition of a bestseller, this comprehensive reference presents the latest polymer developments and most up-to-date applications of polymeric biomaterials in medicine. Expanded into two volumes, the first volume covers the structure and properties of synthetic and natural polymers as well as bioresorbable hybrid membranes, drug delivery systems, cell bioassay systems, and electrospinning for regenerative medicine. This substantially larger resource includes state-of-the-art research and successful breakthroughs in applications that have occurred in the last ten years.

acs biomaterials science engineering impact factor: Cartilage Restoration Jack Farr, Andreas H. Gomoll, 2013-08-15 Attempting to bridge the gap between the science and art of cartilage restoration, Cartilage Restoration: Practical Clinical Applications combines an overview of clinical research and methodologies with clinical cases to help guide the orthopedic treatment and

care of patients presenting with cartilage issues. With chapters written by internationally-renowned orthopedic surgeons, topics include an overview of current surgical options, debridement and marrow stimulation, autograft plug transfer, allografts, cell therapy, and meniscal issues. Cartilage Restoration is a valuable resource for orthopedic surgeons, residents, and fellows.

acs biomaterials science engineering impact factor: Applications of Nanotechnology in Drug Discovery and Delivery Chukwuebuka Egbuna, Mihnea-Alexandru Găman, Jaison Jeevanandam, 2022-08-17 Applications of Nanotechnology in Drug Discovery and Delivery, in the Drug Discovery Update series, presents complete coverage of the application of nanotechnology in the discovery of new drugs and efficient target delivery of drugs. The book highlights recent advances of nanotechnology applications in the biomedical sciences, starting with chapters that provide the basics of nanotechnology, nanoparticles and nanocarriers. Part II deals with the application of nanotechnology in drug discovery, with an emphasis on enhanced delivery of pharmaceutical products, with Part III discussing toxicological and safety issues arising from the use of nanomaterials. This book brings together a global team of experts, making it an essential resource for researchers, drug developers, medicinal chemists, toxicologists and analytical chemists. - Serves as a guide to drug developers working in pharma, biotech and academia, bringing together the latest research on the topic - Presents recent information on the use of nanomaterials for the development of drugs using engineered nanocarriers to target specific delivery - Features a global team of contributing experts who discuss nanotechnology applications in drug discovery as well as safety issues and challenges

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M. Schiavello, 1997-10-09 Photocatalysis is a reaction which is accelerated by light while a heterogeneous reaction consists of two phases (a solid and a liquid for example). Heterogeneous Photocatalysis is a fast developing science which to date has not been fully detailed in a monograph. This title discusses the basic principles of heterogeneous photocatalysis and describes the bulk and surface properties of semiconductors. Applications of various types of photoreactions are described and the problems related to the modeling and design of photoreactors are covered.

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on a direct market or clinical interest, than on results coming from very fundamental studies which have been mainly gathered for this book. This fact will also allow to gain a more general view of what and how the various biomaterials can do and work for, along with the methodologies necessary to design, develop and characterize them, without the restrictions necessarily imposed by industrial or profit concerns. The book collects 22 chapters related to recent researches on new materials, particularly dealing with their potential and different applications in biomedicine and clinics: from tissue engineering to polymeric scaffolds, from bone mimetic products to prostheses, up to strategies to manage their interaction with living cells.

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