

matrix biology impact factor

matrix biology impact factor is a critical metric used by researchers, academics, and institutions to evaluate the significance and influence of the journal Matrix Biology in the scientific community. This journal specializes in publishing high-quality research focused on extracellular matrix biology, cell-matrix interactions, and related biomedical fields. Understanding the matrix biology impact factor aids authors in deciding where to publish their findings, helps readers identify reputable sources, and assists libraries in selecting journals for their collections. This article explores the definition and calculation of impact factors, examines the specific impact factor of Matrix Biology, and delves into its relevance within the field of biomolecular and cellular research. Additionally, the article discusses factors influencing the journal's impact factor and compares it with other leading journals in related disciplines. Finally, practical advice is offered on how to interpret and utilize this metric effectively.

- Understanding Impact Factor
- Matrix Biology Journal Overview
- Matrix Biology Impact Factor Analysis
- Factors Influencing the Matrix Biology Impact Factor
- Comparing Matrix Biology with Other Journals
- Interpreting and Using the Matrix Biology Impact Factor

Understanding Impact Factor

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 relative importance or prestige of a journal within its field. Developed initially by Eugene Garfield, the impact factor helps quantify the influence of scholarly journals by reflecting how frequently their articles are cited by other researchers.

Calculation of Impact Factor

The impact factor is calculated annually by dividing the number of citations in the current year to articles published in the previous two years by the total number of citable items (such as research articles and

reviews) published during those two years. The formula is:

1. Citations in Year X to articles published in Years X-1 and X-2
2. Divided by the total number of articles published in Years X-1 and X-2

This metric provides a snapshot of a journal's citation frequency, although it has limitations, such as discipline-specific citation practices and the potential for manipulation.

Significance in Academic Publishing

The impact factor influences various stakeholders including authors, institutions, and funding bodies. High impact factor journals are often perceived as more prestigious, encouraging researchers to submit their best work. Universities and research institutions may use impact factors in evaluating research output and allocating resources. Despite its utility, the impact factor should be considered alongside other metrics and qualitative factors when assessing journal quality.

Matrix Biology Journal Overview

Matrix Biology is a leading international journal dedicated to publishing research on the biology of the extracellular matrix (ECM) and its role in development, physiology, and disease. The journal covers a broad range of topics including molecular and cellular mechanisms of matrix assembly, remodeling, and cell-matrix interactions.

Scope and Focus Areas

Matrix Biology publishes original research articles, reviews, and commentary on subjects such as:

- Extracellular matrix structure and function
- Cell signaling mediated by matrix components
- Matrix-related pathologies including fibrosis, cancer, and cardiovascular diseases
- Biomaterials and tissue engineering research involving extracellular matrices

The journal serves as an essential platform for researchers in cell biology, molecular biology, biochemistry, and biomedical engineering.

Editorial Standards and Peer Review

Matrix Biology maintains rigorous peer review standards to ensure the publication of high-quality, impactful research. Manuscripts undergo evaluation by experts in the field, assessing scientific merit, originality, and relevance. This stringent process helps maintain the journal's reputation and contributes to its citation performance.

Matrix Biology Impact Factor Analysis

The matrix biology impact factor has demonstrated consistent growth over recent years, reflecting the journal's increasing influence in extracellular matrix and related biomedical research. As of the latest reporting period, the impact factor stands as one of the highest among journals specializing in matrix biology and cell-matrix interactions.

Recent Impact Factor Trends

Tracking the matrix biology impact factor over the past decade reveals a steady upward trajectory, supported by the publication of groundbreaking research and comprehensive reviews. This trend highlights the journal's role in advancing understanding of matrix-related biological processes and disease mechanisms.

Citation Patterns

Articles published in Matrix Biology are frequently cited in diverse areas such as cancer biology, tissue engineering, and regenerative medicine. The interdisciplinary nature of the research increases its visibility and citation potential across multiple scientific domains, contributing positively to the impact factor.

Factors Influencing the Matrix Biology Impact Factor

Several elements contribute to the matrix biology impact factor, affecting its calculation and interpretation. Understanding these factors provides insights into the dynamics behind the journal's citation metrics.

Quality and Relevance of Published Research

The scientific rigor and topical relevance of articles directly impact citation rates. Matrix Biology's focus on cutting-edge topics and methodological innovation attracts citations from a broad scientific audience.

Publication Frequency and Article Types

The number of issues published annually and the balance between original research papers, reviews, and short communications influence the impact factor. Review articles, in particular, tend to attract more citations, thereby boosting the metric.

Field Citation Practices

Citation behaviors differ across disciplines; fields with rapid research turnover and large research communities generally yield higher impact factors. Matrix Biology benefits from being positioned at the intersection of cell biology, biochemistry, and biomedical engineering, areas that generate substantial citation activity.

Comparing Matrix Biology with Other Journals

To contextualize the matrix biology impact factor, it is useful to compare it with impact factors of related journals in extracellular matrix research and allied fields.

Leading Journals in Extracellular Matrix Research

- Journal of Cell Biology
- Journal of Biological Chemistry
- Biomaterials
- Cellular and Molecular Life Sciences

While some of these journals have broader scopes and higher impact factors, Matrix Biology maintains a strong niche specialization, reflected in its focused citation patterns and community recognition.

Advantages of Publishing in Matrix Biology

Authors benefit from the journal's authoritative reputation, targeted readership, and consistent impact factor. Publishing in Matrix Biology positions research within a specialized and highly relevant forum, often leading to increased visibility among experts in matrix biology and related fields.

Interpreting and Using the Matrix Biology Impact Factor

Proper interpretation of the matrix biology impact factor is essential for effectively leveraging the metric in academic and research decision-making.

Contextual Considerations

The impact factor should be considered alongside other indicators such as h-index, article-level metrics, and qualitative assessments. Differences in citation practices among disciplines and the potential for citation manipulation necessitate a balanced perspective.

Practical Applications

Researchers may use the matrix biology impact factor to:

- Identify reputable journals for manuscript submission
- Assess the relative influence of published research
- Guide institutional journal subscriptions
- Support grant applications and academic evaluations

By understanding the nuances behind the metric, stakeholders can make informed decisions that promote scientific quality and impact.

Frequently Asked Questions

What is the current impact factor of the journal Matrix Biology?

As of the latest Journal Citation Reports, the impact factor of Matrix Biology is approximately 7.0, reflecting its strong influence in the field of extracellular matrix research.

How has the impact factor of Matrix Biology changed over the past five years?

Over the past five years, Matrix Biology's impact factor has shown a steady increase, highlighting its growing reputation and the increasing citation of its published research.

Why is the impact factor important for Matrix Biology?

The impact factor is important for Matrix Biology because it provides a quantitative measure of the journal's influence and prestige within the scientific community, helping authors decide where to publish and readers to identify reputable sources.

How does Matrix Biology's impact factor compare to other journals in the field of extracellular matrix research?

Matrix Biology generally ranks among the top journals in the extracellular matrix and cell biology fields, with a higher impact factor compared to many specialized journals, reflecting its broad relevance and high-quality publications.

What factors contribute to the impact factor of Matrix Biology?

Factors contributing to Matrix Biology's impact factor include the quality and novelty of published research, citation frequency, editorial standards, and the relevance of topics covered to current scientific trends.

Can publishing in Matrix Biology help increase a researcher's visibility?

Yes, publishing in Matrix Biology can significantly enhance a researcher's visibility due to the journal's high impact factor and wide readership in the fields of cell biology, biochemistry, and extracellular matrix research.

Is the impact factor the only metric to assess the quality of Matrix Biology?

No, while the impact factor is a widely recognized metric, other factors such as editorial board reputation, peer review quality, article-level metrics, and alternative metrics should also be considered when assessing the quality of Matrix Biology.

How can authors increase their chances of publication in a high-impact journal like Matrix Biology?

Authors can increase their chances by submitting high-quality, novel research, following the journal's submission guidelines carefully, and ensuring their work addresses significant questions in matrix biology that appeal to the journal's readership.

Where can I find the most recent impact factor information for Matrix

Biology?

The most recent impact factor for Matrix Biology can be found on the Journal Citation Reports website, the publisher's official site (Elsevier), or academic databases such as Scopus and Web of Science.

Additional Resources

1. *Matrix Biology: Fundamentals and Clinical Applications*

This book offers an in-depth exploration of the extracellular matrix (ECM) and its role in tissue development, repair, and pathology. It covers the molecular composition of the matrix and discusses how alterations in ECM components influence disease progression. Designed for researchers and clinicians, it bridges basic science with clinical implications, providing insights into therapeutic strategies targeting the matrix.

2. *Extracellular Matrix in Health and Disease*

Focusing on the dynamic nature of the extracellular matrix, this text examines its impact on cell behavior and signaling pathways. It highlights advances in understanding matrix remodeling in conditions such as cancer, fibrosis, and inflammatory diseases. The book also reviews cutting-edge methodologies for studying ECM biology and its influence on tissue mechanics.

3. *Matrix Biology and Tissue Engineering*

Combining principles of matrix biology with regenerative medicine, this book explores how ECM components can be engineered to promote tissue repair and regeneration. It discusses biomaterials design, scaffold fabrication, and the role of matrix molecules in stem cell differentiation. Case studies demonstrate successful applications in cartilage, bone, and skin tissue engineering.

4. *Cell-Matrix Interactions in Development and Disease*

This volume delves into the complex interactions between cells and the extracellular matrix throughout development and pathological states. It addresses signaling cascades triggered by matrix receptors and their effects on cell migration, proliferation, and survival. The book is a valuable resource for understanding how disruptions in cell-matrix communication contribute to diseases.

5. *Matrix Metalloproteinases and Their Role in Tissue Remodeling*

Dedicated to matrix metalloproteinases (MMPs), this book highlights their crucial functions in ECM degradation and remodeling. It presents current research on MMP regulation, substrate specificity, and involvement in cancer metastasis and inflammatory disorders. Therapeutic approaches targeting MMP activity are also critically evaluated.

6. *Advanced Techniques in Matrix Biology Research*

A comprehensive guide to the latest experimental methods used to study the extracellular matrix, including imaging, proteomics, and biomechanical analysis. The book provides protocols and troubleshooting tips for researchers aiming to investigate matrix composition and function. It also discusses computational

modeling approaches to understand matrix dynamics.

7. *The Extracellular Matrix and Cell Signaling*

This title explores how the extracellular matrix influences cellular signaling networks that regulate growth, differentiation, and apoptosis. It emphasizes the integrin family of receptors and their downstream pathways. The interplay between mechanical cues from the matrix and biochemical signals is also addressed in detail.

8. *Matrix Biology in Cancer Progression and Therapy*

Focusing on the tumor microenvironment, this book examines how alterations in ECM components contribute to cancer invasion, angiogenesis, and resistance to treatment. It reviews the potential of targeting matrix molecules for novel anticancer therapies. Case studies highlight experimental and clinical advances in this rapidly evolving field.

9. *Biomaterials and the Extracellular Matrix: Interface and Impact*

This publication investigates the interface between synthetic biomaterials and the natural extracellular matrix, emphasizing their combined effects on cell behavior. It discusses material design strategies that mimic ECM properties to improve biocompatibility and function. The book is essential for those developing implants, prosthetics, and drug delivery systems with matrix-inspired features.

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course instructors as a guide for didactic teaching of mechanobiology to a diverse student body. A mechanobiology course is frequently made up of both undergraduate and graduate students pursuing degrees in engineering, biology, or integrated engineering and biology. Their goal was to present both the elementary and cutting-edge aspects of mechanobiology in a manner that is accessible to students from many different academic levels and from various disciplinary backgrounds. Moreover, it is their hope that the readers of *Mechanobiology Handbook 2nd Edition* will find study questions at the end of each chapter useful for long-term learning and further discussion. Comprehensive collection of reviews of recent research Introductory materials in mechanics, biology, and statistics Discussion of pioneering and emerging mechanobiology concepts Presentation of cutting-edge mechanobiology research findings across various fields and organ systems End of chapter study questions, available online Considering the complexity of the mechanics and the biology of the human body, most of the world of mechanobiology remains to be studied. Since the field is still developing, the *Mechanobiology Handbook* raises many different viewpoints and approaches with the intention of stimulating further research endeavours.

matrix biology impact factor: *Lung Stem Cells in the Epithelium and Vasculature* Amy Firth, Jason X.-J. Yuan, 2015-05-23 This book covers the identification and role of endogenous lung stem cells in health and disease, particularly the most recent advances. In addition, it discusses the rapidly growing field of stem cells and cell therapy as it relates to lung biology and disease as well as ex vivo lung bioengineering. Such approaches may provide novel therapeutic approaches for lung diseases. Human pluripotent stem cell differentiation to model the pulmonary epithelium and vasculature is also discussed. World-recognized scientists who specialize in studying both the lung epithelium and pulmonary vasculature contribute the chapters. Topics covered include: stem cell niches in the lung, the role of progenitor cells in fibrosis and asthma, iPSC in modeling lung disease, vascular repair by endothelial progenitor cells and circulating fibrocytes in pulmonary vascular remodeling. This volume of the Stem Cell Biology and Regenerative Medicine series is essential reading for researchers and clinicians interested in stem cells, lung biology and regenerative medicine. It is also an invaluable resource for advanced students studying cell biology, regenerative medicine and lung physiology.

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edition are efforts to capitalize on combining engineering techniques, to study and manipulate various biophysical cues, including: endothelial cell- pericyte interactions (Davis), mechanical forces to regulate vascularization in three-dimensional constructs (Levenberg), how matrix properties and oxygen tension regulate vascular fate and assembly (Gerecht), biophysical cues in relation to vascular aging (Ferreira), 3D printing of complex vascularized tissue (Hibino), the harnessing of biophysical cues for therapeutic vasculature interfacing with the damaged brain (Segura) and finally, the infarcted heart (Grayson). This second edition of *Biophysical Regulation of Vascular Differentiation and Assembly* provides an interdisciplinary view of vasculature regulation through various biophysical cues and presents recent advances in measuring and controlling such parameters. This book will be of interest to biologists, biophysicists and engineers who work with vascular differentiation and assembly.

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