

IMPACT FACTOR JOURNAL OF STRUCTURAL BIOLOGY

IMPACT FACTOR JOURNAL OF STRUCTURAL BIOLOGY REPRESENTS A CRITICAL METRIC USED TO EVALUATE THE INFLUENCE AND QUALITY OF SCIENTIFIC JOURNALS WITHIN THE FIELD OF STRUCTURAL BIOLOGY. STRUCTURAL BIOLOGY FOCUSES ON THE MOLECULAR ARCHITECTURE OF BIOLOGICAL MACROMOLECULES, AND JOURNALS IN THIS DISCIPLINE DISSEMINATE PIVOTAL RESEARCH FINDINGS THAT ADVANCE UNDERSTANDING OF MOLECULAR MECHANISMS AND BIOLOGICAL FUNCTIONS. THE IMPACT FACTOR SERVES AS A BENCHMARK, REFLECTING THE AVERAGE NUMBER OF CITATIONS TO ARTICLES PUBLISHED IN A JOURNAL, THEREBY GUIDING RESEARCHERS, INSTITUTIONS, AND LIBRARIES IN ASSESSING THE JOURNAL'S PRESTIGE AND RELEVANCE. THIS ARTICLE PROVIDES AN IN-DEPTH ANALYSIS OF THE IMPACT FACTOR FOR JOURNALS SPECIALIZING IN STRUCTURAL BIOLOGY, EXPLORING ITS CALCULATION, SIGNIFICANCE, AND IMPLICATIONS FOR RESEARCHERS AND THE SCIENTIFIC COMMUNITY. ADDITIONALLY, IT HIGHLIGHTS PROMINENT JOURNALS IN THE FIELD, DISCUSSES FACTORS INFLUENCING IMPACT FACTORS, AND ADDRESSES THE BROADER CONTEXT OF RESEARCH DISSEMINATION IN STRUCTURAL BIOLOGY. UNDERSTANDING THESE ASPECTS IS ESSENTIAL FOR NAVIGATING SCHOLARLY PUBLISHING AND MAXIMIZING THE VISIBILITY AND IMPACT OF SCIENTIFIC WORK.

- UNDERSTANDING THE IMPACT FACTOR IN STRUCTURAL BIOLOGY JOURNALS
- TOP IMPACT FACTOR JOURNALS IN STRUCTURAL BIOLOGY
- FACTORS INFLUENCING THE IMPACT FACTOR OF STRUCTURAL BIOLOGY JOURNALS
- SIGNIFICANCE OF IMPACT FACTOR FOR RESEARCHERS AND INSTITUTIONS
- LIMITATIONS AND CRITICISMS OF THE IMPACT FACTOR METRIC

UNDERSTANDING THE IMPACT FACTOR IN STRUCTURAL BIOLOGY JOURNALS

THE IMPACT FACTOR JOURNAL OF STRUCTURAL BIOLOGY IS A QUANTITATIVE MEASURE ORIGINALLY DEVELOPED TO ASSESS THE INFLUENCE OF SCIENTIFIC JOURNALS BY CALCULATING THE AVERAGE NUMBER OF CITATIONS RECEIVED PER PAPER PUBLISHED IN A GIVEN PERIOD. TYPICALLY, THE IMPACT FACTOR IS CALCULATED ANNUALLY BY INDEXING ORGANIZATIONS SUCH AS CLARIVATE ANALYTICS THROUGH THE JOURNAL CITATION REPORTS (JCR). FOR STRUCTURAL BIOLOGY JOURNALS, THIS METRIC GAUGES THE EXTENT TO WHICH PUBLISHED RESEARCH IS REFERENCED IN SUBSEQUENT SCIENTIFIC LITERATURE, REFLECTING BOTH THE QUALITY AND RELEVANCE OF THE RESEARCH PRESENTED. IT IS IMPORTANT TO UNDERSTAND THAT THE IMPACT FACTOR IS FIELD-DEPENDENT; DISCIPLINES LIKE STRUCTURAL BIOLOGY, WHICH CAN BE HIGHLY SPECIALIZED, MAY EXHIBIT DIFFERENT CITATION PATTERNS COMPARED TO BROADER BIOMEDICAL SCIENCES.

CALCULATION METHODOLOGY

THE IMPACT FACTOR IS CALCULATED BY DIVIDING THE NUMBER OF CITATIONS RECEIVED IN A SPECIFIC YEAR TO ARTICLES PUBLISHED IN THE PREVIOUS TWO YEARS BY THE TOTAL NUMBER OF "CITABLE ITEMS" PUBLISHED IN THOSE TWO YEARS. FOR EXAMPLE, THE 2023 IMPACT FACTOR FOR A STRUCTURAL BIOLOGY JOURNAL WOULD BE:

1. THE NUMBER OF CITATIONS IN 2023 TO ARTICLES PUBLISHED IN 2021 AND 2022.
2. DIVIDED BY THE TOTAL NUMBER OF ARTICLES AND REVIEWS PUBLISHED IN 2021 AND 2022.

THIS FORMULA HELPS IN STANDARDIZING THE METRIC AND ALLOWS COMPARISON AMONG JOURNALS WITHIN THE SAME FIELD OR RELATED DISCIPLINES.

TOP IMPACT FACTOR JOURNALS IN STRUCTURAL BIOLOGY

SEVERAL JOURNALS IN STRUCTURAL BIOLOGY ARE RENOWNED FOR THEIR HIGH IMPACT FACTORS, REFLECTING THEIR AUTHORITATIVE STATUS AND THE QUALITY OF RESEARCH THEY PUBLISH. THESE JOURNALS PLAY A PIVOTAL ROLE IN ADVANCING MOLECULAR AND STRUCTURAL INSIGHTS BY PUBLISHING NOVEL FINDINGS, REVIEWS, AND METHODOLOGICAL ADVANCEMENTS.

LEADING JOURNALS BY IMPACT FACTOR

- **JOURNAL OF STRUCTURAL BIOLOGY** – A KEY PUBLICATION FOCUSING ON MOLECULAR STRUCTURE, FUNCTION, AND DYNAMICS.
- **NATURE STRUCTURAL & MOLECULAR BIOLOGY** – KNOWN FOR PUBLISHING GROUNDBREAKING RESEARCH IN STRUCTURAL BIOLOGY AND RELATED MOLECULAR FIELDS.
- **STRUCTURE** – EMPHASIZES STUDIES ON THE THREE-DIMENSIONAL ARCHITECTURE OF BIOLOGICAL MOLECULES.
- **BIOPHYSICAL JOURNAL** – COVERS STRUCTURAL BIOLOGY WITH A STRONG BIOPHYSICAL APPROACH, INTEGRATING EXPERIMENTAL AND THEORETICAL STUDIES.
- **ACTA CRYSTALLOGRAPHICA SECTION D** – SPECIALIZES IN CRYSTALLOGRAPHIC METHODS APPLIED TO BIOLOGICAL MACROMOLECULES.

THE IMPACT FACTORS OF THESE JOURNALS FLUCTUATE ANNUALLY BUT CONSISTENTLY RANK HIGHLY WITHIN THE STRUCTURAL BIOLOGY DOMAIN, SERVING AS PREFERRED VENUES FOR RESEARCHERS SEEKING HIGH VISIBILITY.

FACTORS INFLUENCING THE IMPACT FACTOR OF STRUCTURAL BIOLOGY JOURNALS

MULTIPLE ELEMENTS INFLUENCE THE IMPACT FACTOR OF JOURNALS IN STRUCTURAL BIOLOGY BEYOND JUST THE CITATION COUNT. UNDERSTANDING THESE FACTORS IS CRUCIAL FOR INTERPRETING THE METRIC ACCURATELY AND ASSESSING JOURNAL PERFORMANCE.

PUBLICATION FREQUENCY AND ARTICLE TYPES

JOURNALS THAT PUBLISH MORE FREQUENTLY OR INCLUDE A HIGHER PROPORTION OF REVIEW ARTICLES OFTEN HAVE INCREASED CITATION RATES, AS REVIEWS TEND TO BE CITED MORE THAN ORIGINAL RESEARCH ARTICLES. STRUCTURAL BIOLOGY JOURNALS VARY IN PUBLICATION FREQUENCY, WHICH CAN AFFECT THEIR IMPACT FACTOR.

RESEARCH TRENDS AND EMERGING TOPICS

THE POPULARITY OF SPECIFIC RESEARCH TOPICS WITHIN STRUCTURAL BIOLOGY, SUCH AS CRYO-ELECTRON MICROSCOPY OR PROTEIN FOLDING MECHANISMS, CAN DRIVE HIGHER CITATION RATES FOR JOURNALS PUBLISHING IN THESE AREAS. JOURNALS THAT QUICKLY ADAPT TO EMERGING TRENDS MAY EXPERIENCE A BOOST IN THEIR IMPACT FACTOR.

JOURNAL ACCESSIBILITY AND VISIBILITY

OPEN ACCESS POLICIES AND INDEXING IN MAJOR SCIENTIFIC DATABASES ENHANCE JOURNAL VISIBILITY, LEADING TO HIGHER CITATION POTENTIAL. MANY STRUCTURAL BIOLOGY JOURNALS ARE ADOPTING HYBRID OR FULL OPEN ACCESS MODELS TO

INCREASE READERSHIP AND CITATION IMPACT.

SIGNIFICANCE OF IMPACT FACTOR FOR RESEARCHERS AND INSTITUTIONS

THE IMPACT FACTOR JOURNAL OF STRUCTURAL BIOLOGY METRIC HOLDS SIGNIFICANT WEIGHT IN ACADEMIC AND RESEARCH COMMUNITIES, INFLUENCING DECISIONS RELATED TO PUBLISHING, FUNDING, AND CAREER ADVANCEMENT.

GUIDING PUBLICATION CHOICES

RESEARCHERS OFTEN SELECT JOURNALS WITH HIGHER IMPACT FACTORS TO MAXIMIZE THE DISSEMINATION AND RECOGNITION OF THEIR WORK. PUBLISHING IN HIGH-IMPACT STRUCTURAL BIOLOGY JOURNALS CAN INCREASE THE LIKELIHOOD OF CITATIONS AND ACADEMIC VISIBILITY.

ACADEMIC EVALUATION AND FUNDING

INSTITUTIONS AND FUNDING BODIES FREQUENTLY CONSIDER THE IMPACT FACTOR OF JOURNALS WHERE RESEARCHERS PUBLISH AS A PROXY FOR RESEARCH QUALITY AND IMPACT. THIS METRIC CAN AFFECT GRANT APPROVALS, PROMOTIONS, AND TENURE DECISIONS.

LIBRARY AND INSTITUTIONAL SUBSCRIPTIONS

LIBRARIES OFTEN RELY ON IMPACT FACTORS TO DETERMINE WHICH JOURNALS TO SUBSCRIBE TO, ENSURING ACCESS TO HIGH-QUALITY AND INFLUENTIAL SCIENTIFIC LITERATURE IN STRUCTURAL BIOLOGY.

LIMITATIONS AND CRITICISMS OF THE IMPACT FACTOR METRIC

DESPITE ITS WIDESPREAD USE, THE IMPACT FACTOR JOURNAL OF STRUCTURAL BIOLOGY METRIC HAS SEVERAL LIMITATIONS AND CRITICISMS THAT RESEARCHERS AND INSTITUTIONS MUST CONSIDER.

CITATION DISTRIBUTION AND SKEWNESS

THE IMPACT FACTOR AVERAGES CITATIONS ACROSS ALL ARTICLES BUT DOES NOT REFLECT THE DISTRIBUTION; A SMALL NUMBER OF HIGHLY CITED PAPERS CAN DISPROPORTIONATELY RAISE THE METRIC, MASKING THE PERFORMANCE OF OTHER ARTICLES.

DISCIPLINE-SPECIFIC VARIATIONS

STRUCTURAL BIOLOGY, BEING A SPECIALIZED FIELD, MAY HAVE DIFFERENT CITATION DYNAMICS COMPARED TO BROADER SCIENTIFIC AREAS, MAKING CROSS-DISCIPLINARY COMPARISONS OF IMPACT FACTORS POTENTIALLY MISLEADING.

POTENTIAL FOR MANIPULATION

SOME JOURNALS MAY ENGAGE IN PRACTICES AIMED AT ARTIFICIALLY INFLATING IMPACT FACTORS, SUCH AS ENCOURAGING CITATION OF THEIR OWN ARTICLES OR PUBLISHING AN EXCESSIVE NUMBER OF REVIEW ARTICLES.

OVEREMPHASIS ON A SINGLE METRIC

RELYING EXCLUSIVELY ON IMPACT FACTOR FOR EVALUATING RESEARCH QUALITY CAN OVERLOOK OTHER IMPORTANT FACTORS SUCH AS METHODOLOGICAL RIGOR, REPRODUCIBILITY, AND SOCIETAL IMPACT.

FREQUENTLY ASKED QUESTIONS

WHAT IS THE CURRENT IMPACT FACTOR OF THE JOURNAL OF STRUCTURAL BIOLOGY?

AS OF THE LATEST JOURNAL CITATION REPORTS, THE IMPACT FACTOR OF THE JOURNAL OF STRUCTURAL BIOLOGY IS APPROXIMATELY 3.1. HOWEVER, THIS VALUE MAY VARY YEARLY, SO IT IS ADVISABLE TO CHECK THE MOST RECENT REPORTS FOR UP-TO-DATE INFORMATION.

HOW DOES THE IMPACT FACTOR OF THE JOURNAL OF STRUCTURAL BIOLOGY COMPARE TO OTHER JOURNALS IN THE FIELD?

THE JOURNAL OF STRUCTURAL BIOLOGY HAS A MODERATE IMPACT FACTOR COMPARED TO OTHER JOURNALS IN STRUCTURAL BIOLOGY AND RELATED FIELDS. IT IS WELL-REGARDED FOR PUBLISHING HIGH-QUALITY RESEARCH, THOUGH SOME JOURNALS LIKE NATURE STRUCTURAL & MOLECULAR BIOLOGY OR STRUCTURE MAY HAVE HIGHER IMPACT FACTORS.

WHY IS THE IMPACT FACTOR IMPORTANT FOR THE JOURNAL OF STRUCTURAL BIOLOGY?

THE IMPACT FACTOR REFLECTS THE AVERAGE NUMBER OF CITATIONS TO ARTICLES PUBLISHED IN THE JOURNAL AND IS OFTEN USED AS A METRIC TO GAUGE THE JOURNAL'S INFLUENCE AND PRESTIGE WITHIN THE SCIENTIFIC COMMUNITY. FOR THE JOURNAL OF STRUCTURAL BIOLOGY, A GOOD IMPACT FACTOR HELPS ATTRACT QUALITY SUBMISSIONS AND READERSHIP.

WHERE CAN I FIND THE OFFICIAL IMPACT FACTOR FOR THE JOURNAL OF STRUCTURAL BIOLOGY?

THE OFFICIAL IMPACT FACTOR CAN BE FOUND IN THE JOURNAL CITATION REPORTS (JCR) PUBLISHED ANNUALLY BY CLARIVATE ANALYTICS. ADDITIONALLY, THE JOURNAL OF STRUCTURAL BIOLOGY'S WEBSITE OR PUBLISHER'S PAGE MAY PROVIDE UPDATED IMPACT FACTOR INFORMATION.

HAS THE IMPACT FACTOR OF THE JOURNAL OF STRUCTURAL BIOLOGY CHANGED SIGNIFICANTLY IN RECENT YEARS?

THE IMPACT FACTOR OF THE JOURNAL OF STRUCTURAL BIOLOGY HAS GENERALLY REMAINED STABLE WITH MINOR FLUCTUATIONS OVER RECENT YEARS, REFLECTING CONSISTENT CITATION RATES AND STEADY QUALITY OF PUBLISHED RESEARCH.

DOES THE IMPACT FACTOR OF THE JOURNAL OF STRUCTURAL BIOLOGY INFLUENCE WHERE RESEARCHERS CHOOSE TO PUBLISH?

YES, MANY RESEARCHERS CONSIDER THE IMPACT FACTOR WHEN SELECTING A JOURNAL FOR PUBLICATION, AS HIGHER IMPACT FACTORS OFTEN CORRELATE WITH GREATER VISIBILITY AND RECOGNITION. THE JOURNAL OF STRUCTURAL BIOLOGY'S RESPECTABLE IMPACT FACTOR MAKES IT AN ATTRACTIVE OPTION FOR STRUCTURAL BIOLOGY RESEARCHERS.

ADDITIONAL RESOURCES

1. *STRUCTURAL BIOLOGY: PRINCIPLES AND PRACTICE*

THIS BOOK PROVIDES A COMPREHENSIVE INTRODUCTION TO THE FUNDAMENTAL PRINCIPLES OF STRUCTURAL BIOLOGY. IT COVERS VARIOUS TECHNIQUES USED TO DETERMINE THE STRUCTURES OF BIOLOGICAL MACROMOLECULES, INCLUDING X-RAY CRYSTALLOGRAPHY, NMR SPECTROSCOPY, AND CRYO-ELECTRON MICROSCOPY. THE TEXT IS DESIGNED FOR STUDENTS AND RESEARCHERS AIMING TO UNDERSTAND THE RELATIONSHIP BETWEEN STRUCTURE AND FUNCTION IN BIOMOLECULES.

2. *ADVANCED METHODS IN STRUCTURAL BIOLOGY*

FOCUSING ON THE LATEST TECHNOLOGICAL ADVANCES, THIS BOOK EXPLORES CUTTING-EDGE METHODS USED IN STRUCTURAL BIOLOGY RESEARCH. IT INCLUDES DETAILED PROTOCOLS FOR SAMPLE PREPARATION, DATA COLLECTION, AND COMPUTATIONAL ANALYSIS. THE BOOK IS IDEAL FOR SCIENTISTS LOOKING TO ENHANCE THEIR EXPERIMENTAL APPROACHES IN HIGH-IMPACT RESEARCH.

3. *MOLECULAR ARCHITECTURE OF PROTEINS AND COMPLEXES*

THIS BOOK DELVES INTO THE STRUCTURAL ORGANIZATION OF PROTEINS AND THEIR ASSEMBLIES AT THE MOLECULAR LEVEL. IT HIGHLIGHTS HOW STRUCTURAL INSIGHTS CONTRIBUTE TO UNDERSTANDING BIOLOGICAL MECHANISMS AND DISEASE PATHWAYS. THE CONTENT IS SUPPORTED BY CASE STUDIES FROM RECENT HIGH-IMPACT JOURNAL PUBLICATIONS.

4. *CRYSTALLOGRAPHY IN STRUCTURAL BIOLOGY: TECHNIQUES AND APPLICATIONS*

DEDICATED TO CRYSTALLOGRAPHIC METHODS, THIS BOOK EXPLAINS THE PRINCIPLES AND APPLICATIONS OF X-RAY CRYSTALLOGRAPHY IN THE FIELD OF STRUCTURAL BIOLOGY. IT DISCUSSES STRATEGIES FOR CRYSTAL GROWTH, DIFFRACTION DATA COLLECTION, AND STRUCTURE DETERMINATION. THE BOOK SERVES AS A PRACTICAL GUIDE FOR BOTH BEGINNERS AND EXPERIENCED CRYSTALLOGRAPHERS.

5. *CRYO-ELECTRON MICROSCOPY FOR STRUCTURAL BIOLOGISTS*

THIS VOLUME EXAMINES THE TRANSFORMATIVE ROLE OF CRYO-EM IN RESOLVING BIOMOLECULAR STRUCTURES AT NEAR-ATOMIC RESOLUTION. IT COVERS SAMPLE PREPARATION, IMAGE PROCESSING, AND INTERPRETATION OF CRYO-EM DATA. THE BOOK SHOWCASES SIGNIFICANT BREAKTHROUGHS PUBLISHED IN LEADING STRUCTURAL BIOLOGY JOURNALS.

6. *STRUCTURAL DYNAMICS AND FUNCTION OF BIOMOLECULES*

EXPLORING THE DYNAMIC NATURE OF BIOMOLECULES, THIS BOOK LINKS STRUCTURAL CHANGES TO BIOLOGICAL FUNCTION. IT INTEGRATES EXPERIMENTAL TECHNIQUES WITH COMPUTATIONAL MODELING TO PROVIDE A HOLISTIC VIEW OF MOLECULAR FLEXIBILITY. THE TEXT EMPHASIZES THE IMPORTANCE OF DYNAMIC STUDIES IN UNDERSTANDING COMPLEX BIOLOGICAL SYSTEMS.

7. *COMPUTATIONAL APPROACHES IN STRUCTURAL BIOLOGY*

THIS BOOK REVIEWS COMPUTATIONAL TOOLS AND ALGORITHMS USED TO MODEL AND ANALYZE BIOMOLECULAR STRUCTURES. TOPICS INCLUDE MOLECULAR DYNAMICS SIMULATIONS, DOCKING, AND STRUCTURE PREDICTION. IT IS TAILORED FOR RESEARCHERS INTERESTED IN COMPLEMENTING EXPERIMENTAL DATA WITH IN SILICO METHODS.

8. *PROTEIN-PROTEIN INTERACTIONS: STRUCTURAL INSIGHTS AND IMPLICATIONS*

FOCUSING ON THE STRUCTURAL BASIS OF PROTEIN-PROTEIN INTERACTIONS, THIS BOOK DISCUSSES HOW THESE INTERACTIONS REGULATE CELLULAR PROCESSES. IT PRESENTS METHODOLOGIES FOR STUDYING INTERACTION INTERFACES AND THEIR MODULATION. THE BOOK ALSO EXPLORES THERAPEUTIC STRATEGIES TARGETING PROTEIN COMPLEXES.

9. *IMPACT FACTOR JOURNALS IN STRUCTURAL BIOLOGY: TRENDS AND HIGHLIGHTS*

THIS UNIQUE BOOK COMPILES KEY RESEARCH ARTICLES AND REVIEWS FROM TOP IMPACT FACTOR JOURNALS IN THE FIELD OF STRUCTURAL BIOLOGY. IT ANALYZES TRENDS IN PUBLICATION, EMERGING TOPICS, AND THE EVOLUTION OF METHODOLOGIES. DESIGNED FOR ACADEMICS AND LIBRARIANS, IT OFFERS A CURATED OVERVIEW OF IMPACTFUL SCIENTIFIC CONTRIBUTIONS.

[Impact Factor Journal Of Structural Biology](#)

Find other PDF articles:

<https://staging.devenscommunity.com/archive-library-810/files?ID=pqF69-3188&title=words-in-gujarati-language.pdf>

impact factor journal of structural biology: Structural Biology in Drug Discovery Jean-Paul Renaud, 2020-01-09 With the most comprehensive and up-to-date overview of structure-based drug discovery covering both experimental and computational approaches, *Structural Biology in Drug Discovery: Methods, Techniques, and Practices* describes principles, methods, applications, and emerging paradigms of structural biology as a tool for more efficient drug development. Coverage includes successful examples, academic and industry insights, novel concepts, and advances in a rapidly evolving field. The combined chapters, by authors writing from the frontlines of structural biology and drug discovery, give readers a valuable reference and resource that: Presents the benefits, limitations, and potentiality of major techniques in the field such as X-ray crystallography, NMR, neutron crystallography, cryo-EM, mass spectrometry and other biophysical techniques, and computational structural biology Includes detailed chapters on druggability, allostery, complementary use of thermodynamic and kinetic information, and powerful approaches such as structural chemogenomics and fragment-based drug design Emphasizes the need for the in-depth biophysical characterization of protein targets as well as of therapeutic proteins, and for a thorough quality assessment of experimental structures Illustrates advances in the field of established therapeutic targets like kinases, serine proteinases, GPCRs, and epigenetic proteins, and of more challenging ones like protein-protein interactions and intrinsically disordered proteins

impact factor journal of structural biology: Advances in Protein Chemistry and Structural Biology, 2014-03-11 This eclectic volume features two major topics: applications of mass spectrometry in bioscience; and computational methods for analysis of protein structure and interactions with other macromolecules. Published continuously since 1944, the *Advances in Protein Chemistry and Structural Biology* series has been the essential resource for protein chemists. Each volume brings forth new information about protocols and analysis of proteins. Each thematically organized volume is guest edited by leading experts in a broad range of protein-related topics. - Describes advances in application of powerful techniques in a wide bioscience area - Chapters are written by authorities in their field - Targeted to a wide audience of researchers, specialists, and students - The information provided in the volume is well supported by a number of high quality illustrations, figures, and tables

impact factor journal of structural biology: 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 journal of structural biology: Insights in Structural Biology: 2021 Annalisa Pastore, Caterina Alfano, Piero Andrea Temussi, 2022-11-15

impact factor journal of structural biology: Encyclopedia of Biomedical Engineering, 2018-09-01 *Encyclopedia of Biomedical Engineering, Three Volume Set* is a unique source for rapidly evolving updates on topics that are at the interface of the biological sciences and engineering. Biomaterials, biomedical devices and techniques play a significant role in improving the quality of health care in the developed world. The book covers an extensive range of topics related to biomedical engineering, including biomaterials, sensors, medical devices, imaging modalities and imaging processing. In addition, applications of biomedical engineering, advances in cardiology, drug delivery, gene therapy, orthopedics, ophthalmology, sensing and tissue engineering are

explored. This important reference work serves many groups working at the interface of the biological sciences and engineering, including engineering students, biological science students, clinicians, and industrial researchers. Provides students with a concise description of the technologies at the interface of the biological sciences and engineering Covers all aspects of biomedical engineering, also incorporating perspectives from experts working within the domains of biomedicine, medical engineering, biology, chemistry, physics, electrical engineering, and more Contains reputable, multidisciplinary content from domain experts Presents a 'one-stop' resource for access to information written by world-leading scholars in the field

impact factor journal of structural biology: *Cryo-Electron Microscopy in Structural Biology* Krishnarao Appasani, 2024-10-17 Cryo-electron microscopy, in combination with tomography, has emerged as a new technology for visualizing molecular structures at a resolution beyond even 1 Å. Using this technology has revealed the native molecular details of viruses, membranes, enzymes, ribosomes, and cells. This comprehensive volume brings together authoritative overviews of these methods from structural and biological perspectives. It is a must-have for researchers and graduate students, as well as those working in industry, primarily in the areas of biophysics, structural biology, crystallography, and genomics. Key Features • Focuses on the applications of cryo-EM to structural biology • Documents the importance of cryo-EM/ET approaches in studying the structural determinants of cellular organelle and membrane protein biochemistry • Reviews the applications of high-resolution structures of viruses • Emphasizes structural insights of nuclear and gene machineries • Includes a section focused entirely on the applications of cryo-EM/ET in drug discovery and therapeutic development

impact factor journal of structural biology: *Scattering Methods in Structural Biology Part B* , 2023-01-12 Scattering Methods in Structural Biology, Part B, Volume 676 in the Methods in Enzymology serial, highlights advances in the field, presenting chapters on Quality controls, Refining biomolecular structures and ensembles by SAXS-driven molecular dynamics simulations, Data analysis and modelling of small-angle scattering data with contrast variation, Observing protein degradation in solution by the PAN-20S proteasome complex: state-of-the-art and future perspectives of TR-SANS as a complementary tool to NMR, crystallography and Cryo-EM, Extracting structural insights from chemically-specific soft X-ray scattering, Reconstruction of 3D density of biological macromolecules from solution scattering, ATSAS- present state and new developments in computational methods, and much more. Additional chapters cover Modeling Structure and Dynamics of Protein Complexes with SAXS Profiles (FoXSDock and MultiFoXS), Validation of macromolecular flexibility in solution by SAXS, Combining NMR, SAXS and SANS to characterize the structure and dynamics of protein complexes, Application of Molecular Simulation Methods to Analyze SAS Data, and more. - Provides the authority and expertise of leading contributors from an international board of authors - Presents the latest release in the Methods in Enzymology serial - Updated release includes the latest information on Small Angle Scattering Methods for Structural Interpretation

impact factor journal of structural biology: *Correlative Light and Electron Microscopy II* , 2014-09-30 This new volume of Methods in Cell Biology looks at methods for analyzing correlative light and electron microscopy (CLEM). With CLEM, people try to combine the advantages of both worlds, i.e. the dynamics information obtained by light microscopy and the ultrastructure as provided by electron microscopy. This volume contains the latest techniques on correlative microscopy showing that combining two imaging modalities provides more than each technique alone. Most importantly it includes the essential protocols, including tips, tricks and images for you to repeat these exciting techniques in your own lab. With cutting-edge material, this comprehensive collection is intended to guide researchers for years to come. - Covers sections on model systems and functional studies, imaging-based approaches and emerging studies - Chapters are written by experts in the field - Cutting-edge material - Second of two volumes dedicated to Correlative Light and Electron microscopy (CLEM)

impact factor journal of structural biology: *Comprehensive Toxicology* , 2017-12-01

Comprehensive Toxicology, Third Edition, Fifteen Volume Set discusses chemical effects on biological systems, with a focus on understanding the mechanisms by which chemicals induce adverse health effects. Organized by organ system, this comprehensive reference work addresses the toxicological effects of chemicals on the immune system, the hematopoietic system, cardiovascular system, respiratory system, hepatic toxicology, renal toxicology, gastrointestinal toxicology, reproductive and endocrine toxicology, neuro and behavioral toxicology, developmental toxicology and carcinogenesis, also including critical sections that cover the general principles of toxicology, cellular and molecular toxicology, biotransformation and toxicology testing and evaluation. Each section is examined in state-of-the-art chapters written by domain experts, providing key information to support the investigations of researchers across the medical, veterinary, food, environment and chemical research industries, and national and international regulatory agencies. Thoroughly revised and expanded to 15 volumes that include the latest advances in research, and uniquely organized by organ system for ease of reference and diagnosis, this new edition is an essential reference for researchers of toxicology. Organized to cover both the fundamental principles of toxicology and unique aspects of major organ systems Thoroughly revised to include the latest advances in the toxicological effects of chemicals on the immune system Features additional coverage throughout and a new volume on toxicology of the hematopoietic system Presents in-depth, comprehensive coverage from an international author base of domain experts

impact factor journal of structural biology: Activity report Brookhaven National Laboratory. National Synchrotron Light Source, 2005

impact factor journal of structural biology: Journal of Structural Biology , 2001

impact factor journal of structural biology: Integration of structural biology data in lead drug discovery and optimization Marco Nardini, Pietro Roversi, Gianluca Molla, 2023-03-03

impact factor journal of structural biology: Advances in Protein Molecular and Structural Biology Methods Timir Tripathi, Vikash Kumar Dubey, 2022-01-14 Advances in Protein Molecular and Structural Biology Methods offers a complete overview of the latest tools and methods applicable to the study of proteins at the molecular and structural level. The book begins with sections exploring tools to optimize recombinant protein expression and biophysical techniques such as fluorescence spectroscopy, NMR, mass spectrometry, cryo-electron microscopy, and X-ray crystallography. It then moves towards computational approaches, considering structural bioinformatics, molecular dynamics simulations, and deep machine learning technologies. The book also covers methods applied to intrinsically disordered proteins (IDPs) followed by chapters on protein interaction networks, protein function, and protein design and engineering. It provides researchers with an extensive toolkit of methods and techniques to draw from when conducting their own experimental work, taking them from foundational concepts to practical application. - Presents a thorough overview of the latest and emerging methods and technologies for protein study - Explores biophysical techniques, including nuclear magnetic resonance, X-ray crystallography, and cryo-electron microscopy - Includes computational and machine learning methods - Features a section dedicated to tools and techniques specific to studying intrinsically disordered proteins

impact factor journal of structural biology: *Articular Cartilage Dynamics* David W. Smith, Bruce S. Gardiner, Lihai Zhang, Alan J. Grodzinsky, 2018-11-19 This book explains the anatomy and physiology of cartilage tissue in an integrated way. The emphasis is on how cartilage tissue functions and maintains homeostasis in a challenging mechanical environment. Supported by hundreds of references, the book posts new hypotheses explaining how cartilage adapts and achieves homeostasis in vivo, and tests them against available data. This exploratory approach creates a sense of discovery that the reader can join, or perhaps test themselves through their own research. The main benefit will be obtained by research students and professors looking to understand the deeper concepts that will further their own research, or clinicians (including health professionals and surgeons) who want to gain a deeper physiological understanding of cartilage tissue, which can then serve as a basis for more rational clinical decision-making they need to make on a daily basis.

To help bridge the gap between basic science and clinically relevant joint disease, applications and interpretations of key physiological concepts are discussed in the context of osteoarthritis at the end of most chapters.

impact factor journal of structural biology: Droplets of Life Vladimir N Uversky, 2022-11-09 Droplets of Life: Membrane-Less Organelles, Biomolecular Condensates, and Biological Liquid-Liquid Phase Separation provides foundational information on the biophysics, biogenesis, structure, functions, and roles of membrane-less organelles. The study of liquid-liquid phase separation has attracted a lot of attention from disciplines such as cell biology, biophysics, biochemistry, and others trying to understand how, why, and what roles these condensates play in homeostasis and disease states in living organisms. This book's editor recruited a group of international experts to provide a current and authoritative overview of all aspects associated with this exciting area. Sections introduce membrane-less organelles (MLOs) and biomolecular condensates; MLOs in different sizes, shapes, and composition; and the formation of MLOs due to phase separation and how it can tune reactions, organize the intracellular environment, and provide a role in cellular fitness. . - Presents the first book to establish the foundations of this exciting research area - Combines biophysics, structural and cell biology, and biochemistry perspectives into a single volume - Edited and authored by world-leading scientists - Covers basic physical and biological principles and health and disease implications

impact factor journal of structural biology: Nuclear Proteins , 2025-01-23 Advances in Protein Chemistry and Structural Biology, Volume 143 in the series, covers reviews of methodology and research in all aspects of protein chemistry, including purification/expression, proteomics, modeling and structural determination and design. Chapters in this new release include Therapeutic insight into the role of nuclear protein HNF4 α in liver carcinogenesis, Structural mechanism of nucleoporins in cancer disease, Identification of nuclear matrix proteins (novel genes) in bladder cancer using Bioinformatic approaches, A comparative study of nuclear proteins of different cancers - A systematic review, Role of lamins in cellular physiology and cancer, and much more. Other chapters cover Nuclear Hormone Receptors as Drug Targets: Advancements and Future Prospects, Proteins binding to tandemly repeated DNA: familiar strangers, HMGB1, R-loops and genome stability, Nuclear tau accumulation in Alzheimer's Disease, and Histone deacetylase's (HDACs) regulates Tau function in Alzheimer's Disease. - Covers various aspects, such as their structure, function, regulation, and roles in cellular processes - Includes subclasses of nuclear proteins, discussing their specific functions and involvement in different cellular processes such as DNA replication, transcription, DNA repair, and chromatin remodeling - Presents the signaling pathways and biochemical processes involved in their activation, transport, and localization within the nucleus

impact factor journal of structural biology: Catalogue of Periodicals and Continuations , 1997

impact factor journal of structural biology: Biosensors Pier Andrea Serra, 2011-07-18 A biosensor is a detecting device that combines a transducer with a biologically sensitive and selective component. Biosensors can measure compounds present in the environment, chemical processes, food and human body at low cost if compared with traditional analytical techniques. This book covers a wide range of aspects and issues related to biosensor technology, bringing together researchers from 19 different countries. The book consists of 27 chapters written by 106 authors and divided in three sections: Biosensors Technology and Materials, Biosensors for Health and Biosensors for Environment and Biosecurity.

impact factor journal of structural biology: Autophagy: Biology and Diseases Zheng-Hong Qin, 2019-11-27 This book series consists of 3 volumes covering the basic science (Volume 1), clinical science (Volume 2) and the technology and methodology (Volume 3) of autophagy. Volume 1 focuses on the biology of autophagy, including the signaling pathways, regulating processes and biological functions. Autophagy is a fundamental physiological process in eukaryotic cells. It not only regulates normal cellular homeostasis, and organ development and function, but also plays an important role in the pathogenesis of a wide range of human diseases. Thanks to the rapid

development of molecular biology and omic technologies, research on autophagy has boomed in recent decades, and more and more cellular and animal models and state-of-the-art technologies are being used to shed light on the complexity of signaling networks involved in the autophagic process. Further, its involvement in biological functions and the pathogenesis of various diseases has attracted increased attention around the globe. Presenting cutting-edge knowledge, this book series is a useful reference resource for researchers and clinicians who are working on or interested in autophagy.

impact factor journal of structural biology: Advances in Bacterial Respiratory Physiology Robert K. Poole, 2012-12-05 Advances in Microbial Physiology is one of the most successful and prestigious series from Academic Press, an imprint of Elsevier. It publishes topical and important reviews, interpreting physiology to include all material that contributes to our understanding of how microorganisms and their component parts work. First published in 1967, it is now in its 61st volume. The Editors have always striven to interpret microbial physiology in the broadest context and have never restricted the contents to traditional" views of whole cell physiology. Now edited by Professor Robert Poole, University of Sheffield, Advances in Microbial Physiology continues to be an influential and very well reviewed series. Contributions from leading authorities informs and updates on all the latest developments in the field

Related to impact factor journal of structural biology

“Genshin Impact” - 3 Impact 3 Impact

SCI JCR SCI JCR Impact Factor

effect, affect, impact “” - effect, affect, impact 1. effect. To effect () which is an effect () The new rules will effect (), which is an

Communications Earth & Environment - Communications Earth & Environment Nature Geoscience Nature

csgo rating rws kast rating rating 0.9 KD 1

Impact - 2011 1

2025 win11 - win11: win7 win7 win11 win10

pc 200 M C 30.1 G D 192 G 290 m C 30.4 G

10 research artical 10 IF 292 IF

Nature synthesis Nature Synthesis JACS Nature Synthesis

“Genshin Impact” - 3 Impact 3 Impact

SCI JCR SCI JCR Impact Factor

effect, affect, impact “” - effect, affect, impact 1. effect. To effect () which is an effect () The new rules will effect (), which is an

Communications Earth & Environment - Communications Earth & Environment Nature Geoscience Nature

csgo rating rws kast rating rating 0.9 KD 1

Impact - 2011 1

2025 win11 - win11: win7 win7 win11 win10
pc 200M C30.1G D192G 290m
C30.4G
10 - 10 research artical 10
IF292 IF
Nature synthesis - Nature Synthesis JACS
Nature Synthesis

Back to Home: <https://staging.devenscommunity.com>