





Annual Reviews

- Síntese de importantes pesquisas em 40 diferentes disciplinas que envolvem Biomedicina/Ciências da Vida, Física e Ciências Sociais.

- Os artigos são elaborados por professores e cientistas renomados (melhores artigos de determinada área/assunto, revisados e complementados, mas com base e fiéis ao artigo original).



Conteúdo

- Os artigos: visão geral e objetiva de um derminado campo de estudo e temas relevantes.
- As publicações da Annual Reviews estão entre as posições mais altas do "ISI® Journal Citation Reports® Rankings" – Web of Science.
- Os autores também são cientistas renomados e premiados em suas áreas de atuação.



BROWSE JOURNALS

SUPPLEMENTAL MATERIALS

SPECIAL COMPILATIONS

Access Legend: ☑ = from Vol. 1; ☑ = to current or back volumes;

* = New journal, complimentary 12 months access; No icon = to abstracts only

BIOMEDICAL/LIFE SCIENCES

- ☑ ANALYTICAL CHEMISTRY
- * ANIMAL BIOSCIENCES
- ☑ BIOCHEMISTRY
- ☑ BIOMEDICAL ENGINEERING
- ☑ BIOPHYSICS
- ☑ CELL AND DEVELOPMENTAL BIOLOGY
- ☐ CHEMICAL AND BIOMOLECULAR ENGINEERING
- ☑ CLINICAL PSYCHOLOGY
- ☑ ECOLOGY, EVOLUTION, AND SYSTEMATICS
- ☑ ENTOMOLOGY
- M FOOD SCIENCE AND TECHNOLOGY.
- ☑ GENETICS
- M GENOMICS AND HUMAN GENETICS.
- ☑ IMMUNOLOGY
- ☑ MARINE SCIENCE
- ✓ MEDICINE
- ☑ MICROBIOLOGY
- ✓ NEUROSCIENCE
- M NUTRITION
- ☑ PATHOLOGY: MECHANISMS OF DISEASE.
- ☑ PHARMACOLOGY AND TOXICOLOGY
- ☑ PHYSIOLOGY
- M PHYTOPATHOLOGY
- M PLANT BIOLOGY
- ☑ PSYCHOLOGY
- ☑ PUBLIC HEALTH
- STATISTICS AND ITS APPLICATION (2014)
- * VIROLOGY (2014)

PHYSICAL SCIENCES

- ☑ ANALYTICAL CHEMISTRY
- ☑ ASTRONOMY AND ASTROPHYSICS
- ☑ BIOMEDICAL ENGINEERING
- ☑ BIOPHYSICS
- ☑ CHEMICAL AND BIOMOLECULAR
 ENGINEERING
- ☑ COMPUTER SCIENCE
- ☑ CONDENSED MATTER PHYSICS
- ☑ EARTH AND PLANETARY SCIENCES
- ☑ ENVIRONMENT AND RESOURCES
- ☑ FLUID MECHANICS
- ☑ MARINE SCIENCE
- ☑ MATERIALS RESEARCH
- ☑ NUCLEAR AND PARTICLE SCIENCE
- ☑ PHYSICAL CHEMISTRY
- * STATISTICS AND ITS APPLICATION (2014)

SOCIAL SCIENCES

- ☑ ANTHROPOLOGY
- ☑ CLINICAL PSYCHOLOGY
- ECONOMICS
- ☑ ENVIRONMENT AND RESOURCES
- ☑ FINANCIAL ECONOMICS
- ☑ LAW AND SOCIAL SCIENCE
- * ORGANIZATIONAL PSYCHOLOGY AND ORGANIZATIONAL BEHAVIOR (2014)
- ☑ POLITICAL SCIENCE
- ☑ PSYCHOLOGY
- ☑ PUBLIC HEALTH
- ☑ RESOURCE ECONOMICS
- ☑ SOCIOLOGY
- * STATISTICS AND ITS APPLICATION (2014)

AR CONVERSATIONS

Annual Reviews is pleased to offer audio and video conversations with the contributors at the heart of our organization: our superb editors and authors. These top—of—their—game scientists step back from their current research and consider its relationship to careers in scholarship, to the broader face of science, and to society.

Visit Our Audio and Video Page



Relevância

Em 2009, "ISI's Journal Citation" avaliou 7.347 periódicos em ciências e 2.242 periódicos em ciências sociais. Os resultados da Annual Reviews podem ser encontrados no link localizado na página inicial.



Página Inicial





ABOUT ANNUAL REVIEWS

Annual Reviews publications are among the most highly cited in the scientific literature, and are available in print and online to individuals, institutions, and consortia throughout the world.

More About Annual Reviews

30,000+

AVAILABLE REVIEW ARTICLES

IOURNALS *

SEARCH JOURNALS

☑ BIOMEDICAL ENGINEERING

SEARCH TERMS AUTHORS JOURNALS
Enter Search Term Any Author Any Journal

☑ ENVIRONMENT AND RESOURCES

BROWSE JOURNALS SUPPLEMENTAL MATERIALS SPECIAL COMPILATIONS Access Legend: 🗹 = from Vol. 1; 🗹 = to current or back volumes; 🌞 = New journal, complimentary 12 months access; No icon = to abstracts only BIOMEDICAL/LIFE SCIENCES SOCIAL SCIENCES PHYSICAL SCIENCES ☑ ANTHROPOLOGY ☑ ANALYTICAL CHEMISTRY ☑ ANALYTICAL CHEMISTRY * ANIMAL BIOSCIENCES ☑ ASTRONOMY AND ASTROPHYSICS ☑ CLINICAL PSYCHOLOGY ☑ BIOCHEMISTRY ☑ BIOMEDICAL ENGINEERING ☑ ECONOMICS

☑ BIOPHYSICS

Explore the New Annual Reviews Website

CLICK HERE FOR A TUTORIAL

ANNITAL DEVIEWS

Ranking das séries da AR, conforme dados do JCR.





A NONPROFIT SCIENTIFIC PUBLISHER

JOURNALS *

SUBSCRIPTIONS *

AUTHORS *

Journals General Info

LIBRARIANS & AGENTS

ABOUT *

Advanced Search

Home / About / Annual Reviews Rankings in Thomson Reuters Journal Citation Reports®

Email Page To a Friend 🔼 SHARE

Register | Mobile | Activate | Help |



ABOUT

CAPES

Access provided by:

OVERVIEW

OUR MISSION & OUR FOUNDER.

PHILANTHROPY

OUR TEAM

CAREERS AT ANNUAL REVIEWS

IMPACT FACTOR RANKINGS

COPYRIGHT & PERMISSIONS

MOBILE

SOCIETY PARTNERSHIPS

ACCESS METADATA

NEWS & EVENTS

ANNUAL REVIEWS RANKINGS IN THOMSON REUTERS IOURNAL CITATION REPORTS®

2012 Journal Citation Reports® (Thomson Reuters, 2013)

The latest available Journal Citation Reports® (JCR) published by Thomson Reuters ranks more than 10,800 journals in 232 disciplines by Impact Factor. This ranking system is based upon the number of times an average article is cited during the previous two years.

Download Annual Reviews 2012 JCR Rankings in Excel format.

					`
Annual Review of:	Rank	Category Name	Ranked Journals in Category	Impact Factor	Cited Half– Life
Analytical Chemistry	1	Chemistry, Analytical	75	8.600	3.9
Analytical Chemistry	1	Spectroscopy	43	8.600	3.9
Anthropology	9	Anthropology	83	2.237	>10.0
Astronomy and Astrophysics	1	Astronomy and Astrophysics	56	23.333	>10.0
Biochemistry	2	Biochemistry and Molecular Biology	290	27.681	>10.0
Biomedical Engineering	2	Biomedical Engineering	79	10.946	7.0
Biophysics	2	Biophysics	72	12.630	3.5
Cell and Developmental Biology	1	Developmental Biology	41	17.083	8.5



Browse Journals

☑ PATHOLOGY: MECHANISMS OF DISEASE.

☑ PHARMACOLOGY AND TOXICOLOGY

☑ PHYSIOLOGY

☑ PHYTOPATHOLOGY

BROWSE JOURNALS	SUPPLEMENTAL	MATERIALS SPECIAL COMPILATIONS	
	egend: ☑ = from Vol. 1; ☑ = to current or b I, complimentary 12 months access; No ico		
BIOMEDICAL/LIFE SCIENCES	PHYSICAL SCIENCES	SOCIAL SCIENCES	
☑ ANALYTICAL CHEMISTRY	☑ ANALYTICAL CHEMISTRY	☑ ANTHROPOLOGY	
* ANIMAL BIOSCIENCES	☑ ASTRONOMY AND ASTROPHYSICS	☑ CLINICAL PSYCHOLOGY	
☑ BIOCHEMISTRY	☑ BIOMEDICAL ENGINEERING	☑ ECONOMICS	
☑ BIOMEDICAL ENGINEERING	☑ BIOPHYSICS	☑ ENVIRONMENT AND RESOURCES	
☑ BIOPHYSICS	☑ CHEMICAL AND BIOMOLECULAR	☑ FINANCIAL ECONOMICS	
☑ CELL AND DEVELOPMENTAL BIOLOGY	ENGINEERING	☑ LAW AND SOCIAL SCIENCE	
☑ CHEMICAL AND BIOMOLECULAR	☑ COMPUTER SCIENCE	* ORGANIZATIONAL PSYCHOLOGY AND ORGANIZATIONAL BEHAVIOR (2014)	
ENGINEERING	☑ CONDENSED MATTER PHYSICS		
☑ CLINICAL PSYCHOLOGY	☑ EARTH AND PLANETARY SCIENCES	☑ POLITICAL SCIENCE	
☑ ECOLOGY, EVOLUTION, AND	☑ ENVIRONMENT AND RESOURCES	☑ PSYCHOLOGY	
SYSTEMATICS	☑ FLUID MECHANICS	☑ PUBLIC HEALTH	
☑ BNTOMOLOGY	☑ MARINE SCIENCE	☑ RESOURCE ECONOMICS	
☑ FOOD SCIENCE AND TECHNOLOGY	✓ MATERIALS RESEARCH	☑ SOCIOLOGY	
☑ GENETICS	☑ NUCLEAR AND PARTICLE SCIENCE	* STATISTICS AND ITS APPLICATION (2014)	
☐ GENOMICS AND HUMAN GENETICS	☑ PHYSICAL CHEMISTRY		
☑ IMMUNOLOGY	* STATISTICS AND ITS APPLICATION (2014)		
☑ MARINE SCIENCE			
☑ MEDICINE	Cárico do	AD com informa	
☑ MICROBIOLOGY	Selles da	AR com informaç	
✓ NEUROSCIENCE	Artitual Ri		
✓ NUTRITION	editors ar back from do status de acesso		
☑ PATHOLOGY: MECHANISMS OF DISEASE	back from UU Status	40 40000	

Visit Our Audio and Video Page

careers in society.



Página Periódico

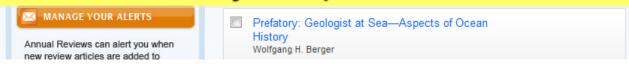




Revisões Antecipadas



Informações sobre próxima publicação da série e acesso ao material já disponível no formato online





Material Suplementar





Busca Avançada

SEARCH

NEW SEARCH SEARCH CRITERIA JOURNAL CONTENT GENERAL INFO CITATION SEARCH FOR IN All Fields AND -Abstract AND -Article Title PUBLICATION DATES Between 1930 ▼ and 2010 ▼ SAVED SEARCHES SAVE THIS SEARCH VIEW SAVED SEARCHES Saving this search allows you to execute the same search later without having to re-enter the criteria each time. Simply give this search a name, choose how often you'd like the search results sent to you, and press save. Search results will be sent to the email address associated with your account. GIVE THIS SEARCH A NAME Never ▼

SEARCH TIPS

SEARCHING

You can perform a full-text search across all Annual Reviews content by using either the Search tool at the top of each page or the Advanced Search tool on this page. If you are a registered user of the site, you can save your search criteria in order to re-run the search later. Search results are automatically displayed by relevance, but you can also choose to display them by date, most cited, and most downloaded.

Note: Sorting your found articles by criteria other than relevance may bring articles to the top of the list that would be low on a list sorted by relevance. However, making your initial search terms more precise will ensure that fewer articles of low relevance populate your results and will lower the probability that an alternative sort will promote such results to the top of the newly sorted list.

ADVANCED SEARCH

The Advanced Search feature enables very specific searching. Use the text boxes in the search grid to enter search terms, and then use the remaining parameters to refine the scope of your search. With the drop down boxes, you can narrow or expand the scope of your search by choosing to search in all fields, in the article abstract, in the article title, or in the full text, or by a specific author, citing author, or author-assigned keyword or keyword phrase.

Your search query will be displayed at the top of the search results page. Any search terms with matching parameters will be combined in a single line to clear space for additional search parameters. To refine your search, simply add additional search parameters and click Search again.

Clicking Clear will clear all search terms from the grid. To refresh the page and run an entirely new search, click New Search.

ADVANCED SEARCH TIPS BOOLEAN SEARCH

Within all the search fields, the Boolean Operators AND (also + or &) OR, and NOT (also -) allow you to perform searches the between each of the below).

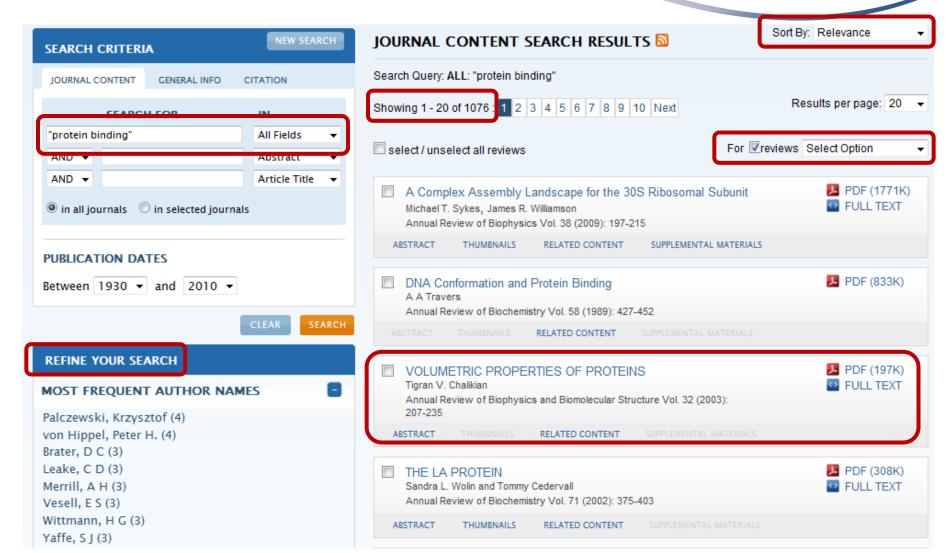
Opções e dicas de busca

AUTHOR SEARCHING

To search for multiple authors, separate each author name with either AND or OR. Using AND will



Página Resultados





Refinando Resultados





Página Artigo HTML

Home / Journals / Biophysics and Biomolecular Structure / Volume 29, 2000 / Williams, pp. 497-521

🚵 Add to Favorites 🛛 🖂 Email Page To a Friend

SHARE

BIOPHYSICS AND BIOMOLECULAR STRUCTURE

Volume 29, 2000

FULL-TEXT HTML





ELECTROSTATIC MECHANISMS OF DNA DEFORMATION

Annual Review of Biophysics and Biomolecular Structure

Vol. 29: 497-521 (Volume publication date June 2000)

DOI: 10.1146/annurev.biophys.29.1.497

Loren Dean Williams

School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, Georgia 30332-0400; e-mail: loren.williams@chemistry.gatech.edu

L. James Maher III¹

Department of Biochemistry and Molecular Biology, Mayo Foundation, Rochester, Minnesota 55905; e-mail: maher@mayo.edu

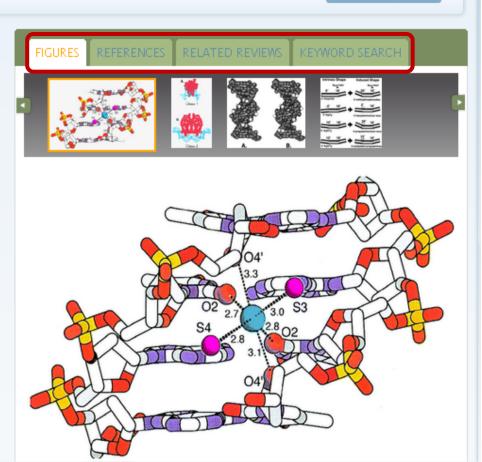


Citation: PubMed | Web of Science ® | Download | Email notification | 5

Web of Science ®: Related Records ® I Times Cited: 114

ABSTRACT

The genomes of higher cells consist of double-helical DNA, a densely charged polyelectrolyte of immense length. The intrinsic physical properties of DNA, as well as the properties of its complexes with proteins





Página Artigo

FIGURES REFERENCES RELATED REVIEWS KEYWORD SEARCH

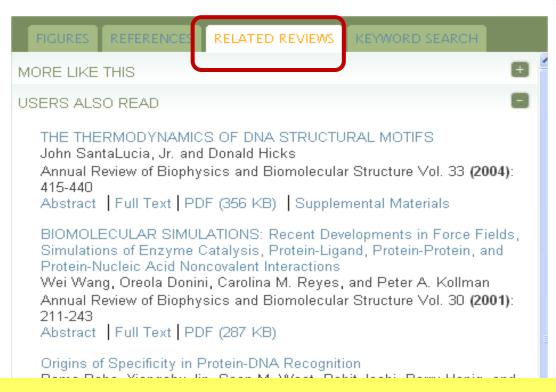
- 1. Bartenev VN, Golovamov EI, Kapitonova KA, Mokulskii MA, Volkova LI, Skuratovskii IY. 1983. Structure of the B DNA cationic shell as revealed by an X-ray diffraction study of CsDNA. Sequence-specific cationic stabilization of B form DNA. J. Mol. Biol. 169:217–34
 [CrossRef] [Medline] [Web of Science ®]
- 2. Baumann C, Smith S, Bloomfield V, Bustamante C. 1997. Ionic effects on the elasticity of single DNA molecules. Proc. Natl. Acad. Sci. USA 94:6185–90 [CrossRef] [Medline] [Web of Science ®]
 - ...Recent innovative single-molecule stretching experiments with phage λ DNA have provided estimates for S (2)....
 - ...A particularly interesting recent example is the measurement of single-molecule DNA elasticity (related to persistence length) in the presence of different concentrations of counterions of different valences (2)....

Clicar no texto da referência para ver onde ele aparece no artigo

of certain multivalent cations (2)....



Página Artigo



Outros artigos lidos pelos leitores deste artigo

Eric T. Kool Annual Review of Biophysics and Biomolecular Structure Vol. 30 **(2001)**: 1-22



KEYWORD SEARCH

Página Artigo

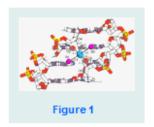
REFERENCES **FIGURES** QUICK SEARCH Search for articles by the same authors or containing the same key words. Select below. SEARCH IN: Annual Reviews ▼ BY AUTHORS: Loren Dean Williams 1 James Maher III KEYWORDS: curvature bending counterion condensation groove collapse SEARCH

Sugestões de novos termos de busca e busca pelos autores desta revisão



Figuras

hybrids, which are partially occupied by monovalent cations (Figure 1; see color insert). The greater occupancies of water over monovalent cations in hybrid solvent sites present difficult analytical challenges during X-ray structure determination. However, these challenges are now being at least partially overcome with high-resolution data, ion substitution, and other techniques (82, 83, 96).



In purely polyelectrolyte solution models, cations around DNA are mobile and are distributed with radial dependence (70, 71). Several lines of evidence suggest that a modest modification of these powerful models may be in order. The mobile cation atmosphere, whether monovalent or divalent, appears to be perturbed by DNA functional groups and is sequence dependent.

Crystallographic observations of monovalent cation-water hybrids within the minor groove of A-tracts (82, 83, 96) suggest selective partitioning into that region. In addition, fully hydrated magnesium ions have been shown to avoid DNA amino groups in X-ray structures (83), consistent with nuclear magnetic resonance (NMR) evidence for perturbations of divalent cations from purely radial distributions in solution (29). The influence of DNA functional groups on cation distribution appears to cause a superimposition of peaks and troughs on purely polyelectrolyte radial cation distributions.

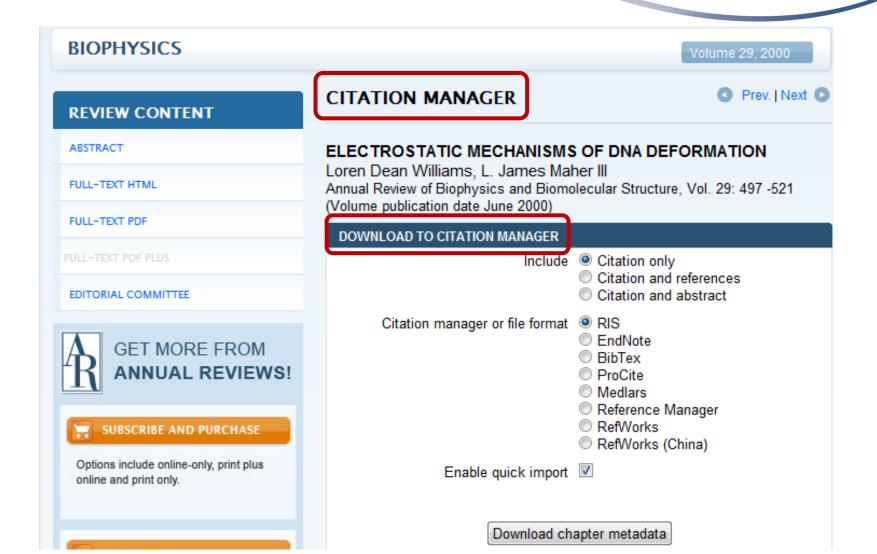
Additional Evidence of Influence of DNA Functional Groups on Cation Distributions

The first observation of a cation within the minor groove of an AT-tract was made in 1973 by Rosenberg et al, who used single-crystal diffraction to identify a sodium ion near the floor of an abbreviated minor groove of a dinucleotide duplex (75). The relevance of that structure was discounted during initial interpretations of the Dickerson dodecamer. Those interpretations described a purely aqueous "spine of hydration" in the

REFERENCES **RELATED REVIEWS** KEYWORD SEARCH Enlarge FIGURE CAPTION FIGURE LOCATIONS which are partially occupied by monovalent cations (Figure 1; see color insert).



Download Citation





Periódicos



EXPECTED PUBLICATION DATES

IMPACT FACTOR RANKINGS

COPYRIGHT & PERMISSIONS

SUPPLEMENTAL MATERIALS

SPECIAL COMPILATIONS

AR CONVERSATIONS: AUDIO & VIDEO



GET MORE FROM ANNUAL REVIEWS!



Options include online-only, print plus online and print only.

MANAGE YOUR ALERTS

Annual Reviews can alert you when new review articles are added to the site.

BROWSE IOURNALS

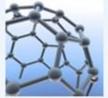
JOURNALS MY FAVORITES SUBSCRIBED IOURNALS BIOMEDICAL/LIFE SCIENCES PHYSICAL SCIENCES SOCIAL SCIENCES

Access

= from Vol. 1;

= to current or back volumes; No icon = to abstracts only

EFGILMN PRS



Analytical Chemistry

The Annual Review of Analytical Chemistry, first published in 2008, provides a perspective on the field of analytical chemistry.

Latest Volume: Volume 3 (2010)



Anthropology

The Annual Review of Anthropology, in publication since 1972, covers significant developments in the subfields of Anthropology. Latest Volume: Volume 38 (2009)



Astronomy and Astrophysics

The Annual Review of Astronomy and Astrophysics, in publication since 1963, covers

Website CLICK HERE FOR A TUTORIAL ANNUAL REVIEWS **AUDIO SERIES** Enlightening interviews with today's foremost scientific scholars FIND A JOURNAL **BIOMEDICAL/LIFE SCIENCES**

PHYSICAL SCIENCES

SOCIAL SCIENCES



Periódicos

BROWSE JOURNALS

EXPECTED PUBLICATION DATE

IMPACT FACTOR RANKINGS

COPYRIGHT & PERMISSIONS

SUPPLEMENTAL MATERIALS

SPECIAL COMPILATIONS

AR CONVERSATIONS: AUDIO & VIDEO





Options include online-only, print plus online and print only.

MANAGE YOUR ALERTS

Annual Reviews can alert you when new review articles are added to the site.

EXPECTED PUBLICATION DATES

Annual Reviews journals are published annually within the same two-week period each year. If there is a change in publication date, this page will provide you with details regarding the revised publication date.

In parentheses are the dates when each series finished shipping from the warehouse in Tennessee. All other dates are prospective.

Annual Reviews journals also offer the "Reviews in Advance" (RIA) feature, bringing individual articles online earlier than the date indicated for the entire volume. To see reviews available early, click the RIA icon (RIA) in the chart's first column.

Please find more information about our forthcoming journals here.

Last Updated: July 24, 2013

Annual Review Series, Volume	Expected Online Appearance Date	Expected Print Publication Date
Analytical Chemistry 6 (2013)	Published (June 17, 2013)	July 19, 2013
Animal Biosciences 1 (2014)	February 15, 2014	March 15, 2014

Anthropolo

Astronomy

Biochemist

Datas previstas para as próximas publicações de cada uma das séries



Minha Conta

MY ACCOUNT

VISIT OUR LIBRARIAN RESOURCE CENTER

LIBRARY ACCOUNT

USAGE DATA

SUBSCRIPTIONS

IP RANGES

REFERENCE LINKING

BANNER

ADMINISTRATORS

ANNUAL REVIEWS PUBLICATIONS LIST

PERSONAL ACCOUNT

ACCOUNT INFO

ALERTS

RECOMMENDED ARTICLES

FAVORITE & SUBSCRIBED JOURNALS

FAVORITE & SUBSCRIBED ARTICLES

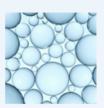
PERSONAL ACCESS

FAVORITE & SUBSCRIBED JOURNALS

Favorite Journals

Access

= from Vol. 1;
= to current or back volumes; No icon = to abstracts only



☑ Biochemistry

The Annual Review of Biochemistry, in publication since 1932, sets the standard for review articles in biological chemistry and molecular biology.

Latest Volume: Volume 78 (2009)

REMOVE



☑ Biophysics

The Annual Review of Biophysics, in publication since 1972, covers significant developments in the field of Biophysics.

Latest Volume: Volume 39 (2010)



☑ Biomedical Engineering

The Annual Review of Biomedical Eng publication since 1999, covers the sign developments in the broad field of Bio Engineering.

Latest Volume: Volume 12 (2010)

HELP DESK

Personal Customer Service

Hours: M-F, 7am - 4pm PST Tel: 800.523.8635 or 650.493.4400

Fax: 650.424.0910

email: service@annualreviews.org

Institutional Customer Service

Hours: M-F, 7am - 4pm PST Tel: 800.523.8635 or 650.493.4400

Fax: 650.424.0910

email:

sitelicense@annualreviews.org

Institutions requiring assistance with their account and/or online access should complete our feedback form.

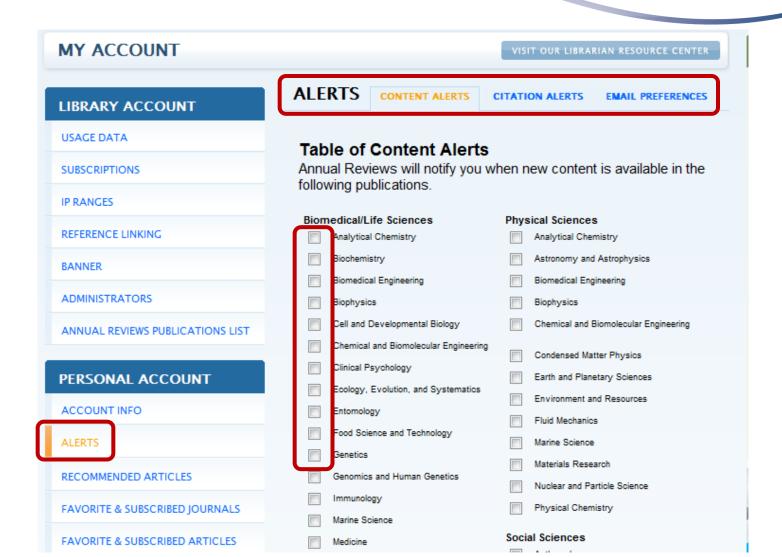
Help Section

Frequently Asked Questions (FAQs)

Página pessoal, com preferências, alertas, etc



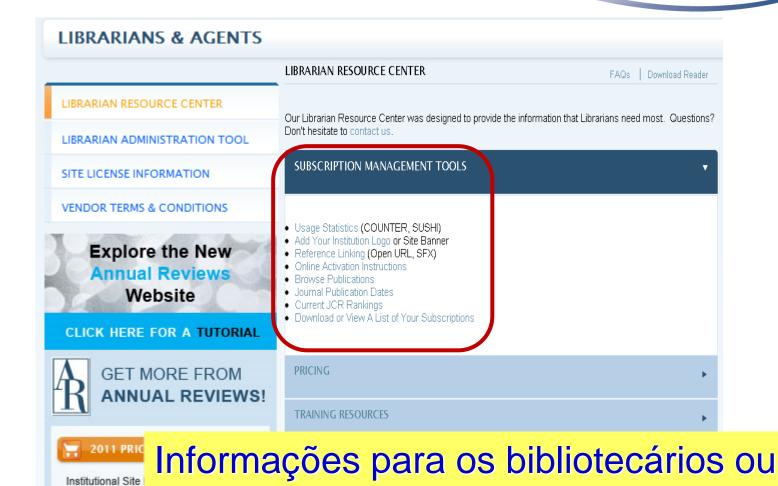
Meus Alertas





Página Bibliotecários

Volume Subscrite



administradores da conta



Conta Pessoal

USER REGISTRATION

If you don't already have an Annual Reviews login, create one now.

Registered users can:

- Get article recommendations based on your reading profile
- Access personal Subscriptions
- Get emailed Table of Contents alerts
- · Get emailed citation tracking alerts
- Create favorites lists
- Save complex searches and get search alerts
- Gain Pay-Per-Article access

*Required Field

Username and password

Username:*

Password:*

Retype Password:*

Email address:*

Confirm Email:*

Want to join our mailing list? Please complete the fields below.

Title (e.g. Mr., Mrs., Dr.):

First name:

Last name:

Your Primary Areas of Interest:*

Please select your profession:*

Choose Your Work environment:*

Please List Your Top 3 Society Affiliations:





Biomedical Sciences
Anatomy
Biochemistry
Biomedical Engineering



Formulário para criar a conta pessoal



Contato

help@systemsint.info

(11) 5051-0975