

Bem vindo ao



SPRINGER NATURE

Conteúdos

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Sobre

- Descubra o SpringerLink

1.0

Sobre – descubra o SpringerLink

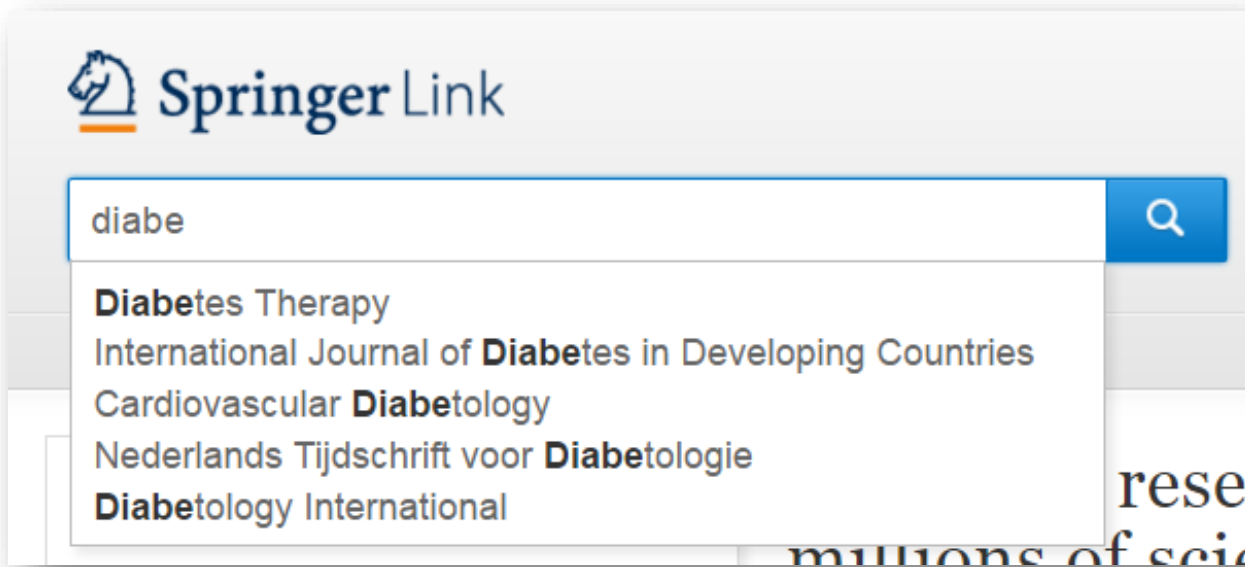
The screenshot shows the SpringerLink website. The browser address bar displays `link.springer.com`, with a callout box pointing to it that says "URL: link.springer.com". The website header includes the SpringerLink logo, a search bar, and navigation links for "Sign up / Log in", "English", and "Academic edition". Below the header, there are navigation links for "Home" and "Contact Us".

On the left side, there is a "Browse by discipline" section with a list of categories:

- » Biomedicine
- » Business and Management
- » Chemistry
- » Computer Science
- » Earth Sciences
- » Economics
- » Education
- » Engineering
- » Environment
- » Geography
- » History
- » Law
- » Life Sciences
- » Literature
- » Materials Science

The main content area features a large text block: "Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works." Below this text are two book covers: "COMPUTER VISION" and "Adaptive Hybrid Active Power Filters". To the right of the book covers is a purple box with the text: "New books and journals are available every day." At the bottom of the main content area, the text "Featured Journals" is visible.

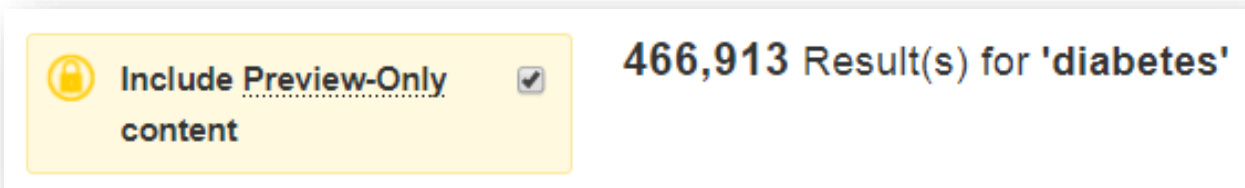
Sobre – você em primeiro lugar



The screenshot shows the Springer Link search interface. At the top left is the Springer Link logo, featuring a chess knight icon and the text "Springer Link". Below the logo is a search bar containing the text "diabe". To the right of the search bar is a blue search button with a magnifying glass icon. Below the search bar, a dropdown menu displays a list of search suggestions:

- Diabetes Therapy**
- International Journal of **Diabetes** in Developing Countries
- Cardiovascular **Diabetology**
- Nederlands Tijdschrift voor **Diabetologie**
- Diabetology International**

Sugestões automáticas para buscas (com base em palavras-chave)



The screenshot shows a filter option and the number of search results. On the left, there is a yellow box containing a lock icon, the text "Include Preview-Only content", and a checked checkbox. To the right of this box, the text "466,913 Result(s) for 'diabetes'" is displayed.

Desmarque a opção Preview-Only para limitar os resultados de busca aos conteúdos licenciados

Sobre – encontre o que você precisa

European Biophysics Journal
October 2012, Volume 41, Issue 10, pp 789–799 | [Cite this article](#)

Validation of macromolecular flexibility in solution by small-angle X-ray scattering (SAXS)

Authors: Michel Hammel

Open Access | Review | 2.2k Downloads | 54 Citations

First Online: 26 May 2012

Abstract

The dynamics of macromolecular conformations are critical to the action of cellular networks. Solution X-ray scattering studies, in combination with macromolecular X-ray crystallography (MX) and nuclear magnetic resonance (NMR), strive to determine complete and accurate states of macromolecules, providing novel insights describing allosteric mechanisms, supramolecular complexes, and dynamic molecular machines. This review addresses theoretical and practical concepts, concerns, and considerations for using these techniques in conjunction with computational methods to productively combine solution-scattering data with high-resolution structures. I discuss the principal means of direct identification of macromolecular flexibility from SAXS data followed by critical concerns about the methods used to calculate theoretical SAXS profiles from high-resolution structures. The SAXS profile is a direct interrogation of the thermodynamic ensemble and techniques such as, for example, minimal ensemble search (MES), enhance interpretation of SAXS experiments by describing the SAXS profiles as population-weighted thermodynamic ensembles. I discuss recent developments in computational techniques used for conformational sampling, and how these techniques provide a basis for assessing the level of the flexibility within a sample. Although these approaches sacrifice atomic detail, the knowledge gained from ensemble analysis is often appropriate for developing hypotheses and guiding biochemical experiments. Examples of the use of SAXS and combined approaches with X-ray crystallography, NMR, and computational methods to characterize dynamic assemblies are presented.

Keywords
Small-angle X-ray scattering (SAXS) | Macromolecular flexibility | Rigid-body modeling | Ensemble analysis

Table of Contents:

- Article
- Abstract
- Introduction
- SAXS profile as a indicator...
- SAXS profiles provide mor...
- Accurate computation of ...
- Modeling of the conforma...
- Distance constraints in rig...
- The conformational ense...
- Conclusions and prospects
- Notes
- References
- Copyright information
- About this article

Links diretos para trechos completos do texto em HTML otimizado

Article

Abstract

Introduction

SAXS profile as a indicator...

SAXS profiles provide mor...

Accurate computation of S...

Modeling of the conformat...

Distance constraints in rig...

The conformationalensem...

Conclusions and prospects

Acknowledgments

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Copyright information

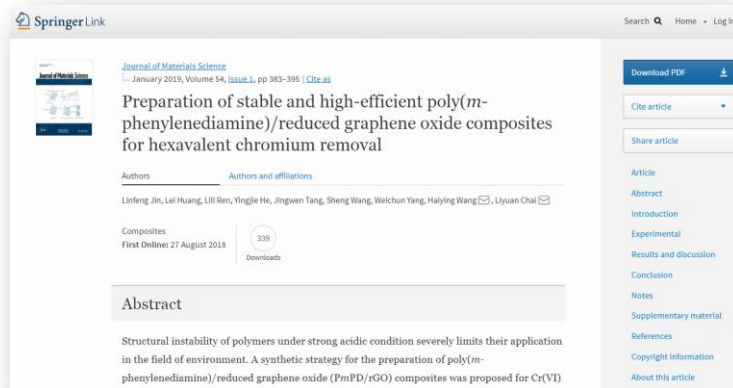
About this article

Abstract

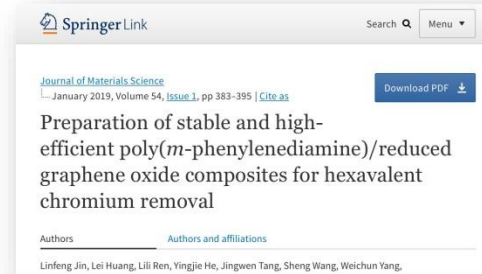
The dynamics of macromolecular conformations are critical to the action of cellular networks. Solution X-ray scattering studies, in combination with macromolecular X-ray crystallography (MX) and nuclear magnetic resonance (NMR), strive to determine complete and accurate states of macromolecules, providing novel insights describing allosteric mechanisms, supramolecular complexes, and dynamic molecular machines. This review addresses theoretical and practical concepts, concerns, and considerations for using these techniques in conjunction with computational methods to productively combine solution-scattering data with high-resolution structures. I discuss the principal means of direct identification of macromolecular flexibility from SAXS data followed by critical concerns about the methods used to calculate theoretical SAXS profiles from high-resolution structures. The SAXS profile is a direct interrogation of the thermodynamic ensemble and techniques such as, for example, minimal ensemble search (MES), enhance interpretation of SAXS experiments by describing the SAXS profiles as population-weighted thermodynamic ensembles. I discuss recent developments in computational techniques used for conformational sampling, and how these techniques provide a basis for assessing the level of the flexibility within a sample. Although these approaches sacrifice atomic detail, the knowledge gained from ensemble analysis is often appropriate for developing hypotheses and guiding biochemical experiments. Examples of the use of SAXS and combined approaches with X-ray crystallography, NMR, and computational methods to characterize dynamic assemblies are presented.

Leia em qualquer lugar – em qualquer dispositivo

Desktop



Celular - horizontal



Seu design responsivo otimiza a visualização em todos os dispositivos

Tablet



Celular - vertical



Página inicial

- Busca – Navegação – Conteúdo
- Ser identificado
- Branding da biblioteca
- Busca
- Suporte e feedback

2.0

Página inicial

The screenshot shows the Springer Link homepage. At the top left is the Springer Link logo. To the right are links for 'Sign up / Log in', 'English', and 'Academic edition'. Below the logo is a search bar (1) with a magnifying glass icon and a settings gear icon. Below the search bar is a navigation menu (2) with links for 'Home' and 'Contact Us'. The main content area (3) features a large heading: 'Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.' Below this heading are two book covers: 'LMP Letters in Mathematical Physics' and 'DISASTER RELIEF AND CHANGES & CHALLENGES'. To the right of these covers is a purple box with the text 'New books and journals are available every day.' Below this is a section titled 'Featured Journals' with four journal covers: 'MULTIDIMENSIONAL SYSTEMS AND SIGNAL PROCESSING', 'International Journal of Thermophysics', 'Theory of Computing Systems', and 'Journal of Dynamical and Control Systems'. At the bottom is a section titled 'Featured Books'.

A página inicial é dividida em 3 partes:

- 1) Busca
- 2) Navegação
- 3) Conteúdo

Página inicial – ser identificado

Quando você visita link.springer.com a partir de uma faixa de IPs reconhecida, você é identificado automaticamente como pertencente àquela instituição. Usuários individuais também podem ser identificados utilizando e-mail e senha para fazer login.

- 1) Clique em Sign up/Login
- 2) Crie uma conta
- 3) Ou faça login no seu acervo de qualquer lugar do mundo

Página inicial – criar uma conta / fazer login

The screenshot displays the Springer Link homepage. At the top left is the Springer Link logo. To the right, there are links for « Sign up / Log in », a language dropdown menu set to English, and an Academic edition dropdown menu. Below the logo is a search bar with the placeholder text "Search", a magnifying glass icon, and a settings gear icon. A navigation bar below the search bar contains links for Home and Contact Us. The main content area is divided into two sections. On the left, under the heading "Browse by discipline", there is a list of disciplines with right-pointing arrows: Biomedicine, Business and Management, Chemistry, Computer Science, Earth Sciences, Economics, Education, Engineering, Environment, Geography, History, Law, and Life Sciences. On the right, a large text block reads: "Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works." Below this text are two book covers: "Natural Resources Research" and "Strongly Nonlinear Oscillators: Analytical Solutions, Second Edition". To the right of the book covers is a purple callout box with the text: "New books and journals are available every day."

Springer Link

» Sign up / Log in English Academic edition

Search

Home • Contact Us

Browse by discipline

- » Biomedicine
- » Business and Management
- » Chemistry
- » Computer Science
- » Earth Sciences
- » Economics
- » Education
- » Engineering
- » Environment
- » Geography
- » History
- » Law
- » Life Sciences

Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.

Natural Resources Research

Strongly Nonlinear Oscillators
Analytical Solutions
Second Edition

New books and journals are available every day.

Login institucional / via Athens

Welcome back. Please log in.

The screenshot shows a login interface with a light blue background. At the top, it says "Welcome back. Please log in." Below this is a rounded rectangular box containing the login form. The form has two input fields: "Email" and "Password". To the right of the "Password" field is a link that says "Forgotten password?". Below the input fields is a blue "Log in" button. Underneath the button are three links, each preceded by a right-pointing arrow: "Log in using a corporate account", "Log in via Shibboleth or Athens", and "Problems logging in?".

Don't have an account?

Creating an account is easy, and helps us give you a more personalised experience.

Your Springer account is shared across many Springer sites including SpringerLink, Springer Materials, Adis Insight, and Springer.com.

Usuários cadastrados podem fazer login diretamente

Também via Shibboleth ou Athens

Ou fazer login com sua conta corporativa

Criar uma nova conta

Don't have an account?

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Your Springer account is shared across many Springer sites including SpringerLink, Springer Materials, Adis Insight, and Springer.com.

First Name

Last Name

Email Address

Your email address will be kept *private*

Password

Password Confirmation

Minimum 6 characters including at least 1 letter and 1 number

By creating an account you agree to accept our [terms of use](#)

Create account

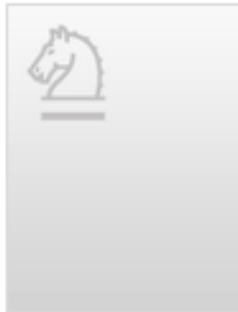
Clear

Se você ainda não é cadastrado no SpringerLink, o processo é muito rápido!

Sua conta também poderá ser usada no springer.com

Página inicial – usuário anônimo

Providing researchers with access to millions of scientific documents from **journals, books, series, protocols and reference works.**

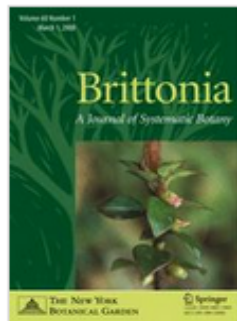


**New books and journals
are available every day.**

Se você entrar no site como usuário anônimo, a caixa de atividade ficará alaranjada

Página inicial – usuário institucional identificado

Providing researchers with access to millions of scientific documents from **journals, books, series, protocols and reference works.**



**New books and journals
are available every day.**

Se você entrar no site como usuário corporativo, a caixa de atividade ficará violeta

Página inicial – branding da biblioteca

IFMBE Proceedings
EMBEC & NBC 2017

[EMBEC: European Medical and Biological Engineering Conference](#)
[NBC: Nordic-Baltic Conference on Biomedical Engineering and Medical Physics](#)

EMBEC & NBC 2017

Joint Conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017

Editors ([view affiliations](#))
 Hannu Eskola, Outi Väisänen, Jari Viik, Jari Hyttinen

Conference proceedings
EMBEC 2017,
NBC 2017

11 Citations | 48 Mentions | 694 Readers | 7.4k Downloads

Part of the [IFMBE Proceedings](#) book series (IFMBE, volume 65)

[Table of contents \(283 papers\)](#) | [About these proceedings](#)

Page 1 of 15 | Search within event

Access to this content is enabled by Springer Affiliates

Front Mat
 Pages I-XXX | [PDF](#) [↓](#)


A Novel Composite and Suspended Nanofibrous Scaffold for Skin Tissue Engineering
 Caihong Zhu, Chengwei Wang, Ruihua Chen, Changhai Ru
 Pages 1-4 | [PDF](#) [↓](#)



Access to this content is enabled by **Northeastern University Libraries**

O administrador institucional pode inserir uma mensagem com o branding da instituição

A mensagem aparecerá antes do texto completo de todos os artigos de periódicos, livros e capítulos em assinatura

Página inicial – busca

(1)  Springer Link » Sign up / Log in English ▾ Academic edition ▾



(1)   (2)

Home • Contact Us

Browse by discipline

- » Biomedicine
- » Business and Management
- » Chemistry
- » Computer Science
- » Earth Sciences
- » Economics
- » Education
- » Engineering
- » Environment
- » Geography
- » History
- » Law
- » Life Sciences
- » Literature

Providing researchers with access to millions of scientific documents from **journals, books, series, protocols and reference works.**

New books and journals are available every day.

- 1) Grande parte dos usuários acessa nossos conteúdos usando a funcionalidade de **busca**. A caixa de busca fica visível em todas as páginas
- 2) Também há opções avançadas de busca e ajuda

Página inicial – opções avançadas de busca

Springer Link

Search

Home • Contact Us

Advanced Search

Find Resources

with all of the words

with the exact phrase

with at least one of the words

without the words

where the title contains

e.g., "Cassini at Saturn" or Saturn

where the author / editor is

e.g., "H.G.Kennedy" or Elvis Morison

Show documents published

between and

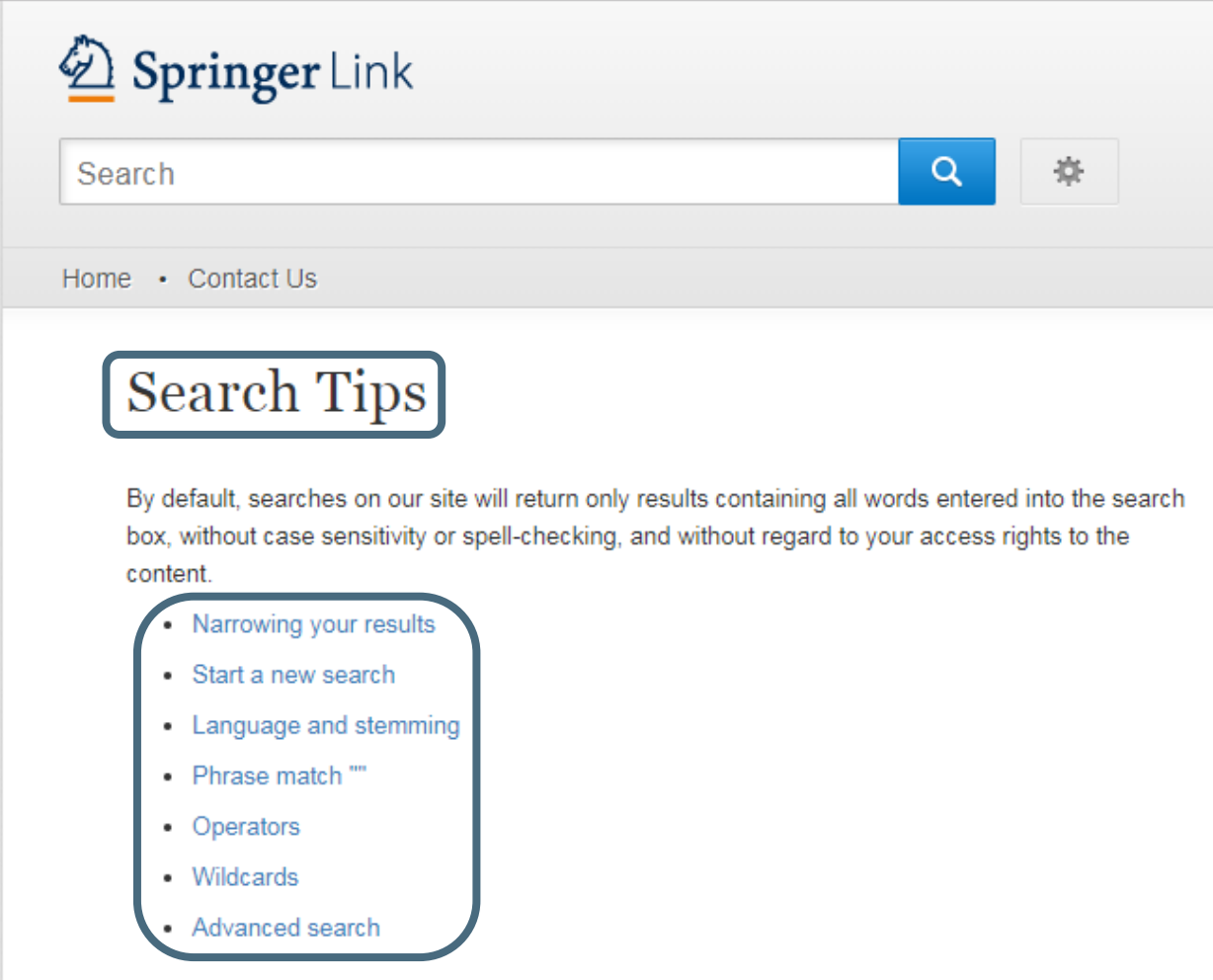
Include preview-only content

Search

Adicione critérios à sua busca utilizando as opções em **Busca Avançada**



Você pode **limitar** sua busca apenas aos conteúdos aos quais sua instituição possui acesso

Página inicial – ajuda na busca



The screenshot shows the Springer Link homepage. At the top left is the Springer Link logo, featuring a chess knight icon and the text "Springer Link". Below the logo is a search bar with the placeholder text "Search", a blue search button with a magnifying glass icon, and a settings gear icon. A navigation bar below the search bar contains links for "Home" and "Contact Us". The main content area features a "Search Tips" section, which is highlighted with a blue rounded rectangle. This section includes a paragraph explaining the default search behavior and a list of search tips, also highlighted with a blue rounded rectangle.

Springer Link

Search  

[Home](#) • [Contact Us](#)

Search Tips

By default, searches on our site will return only results containing all words entered into the search box, without case sensitivity or spell-checking, and without regard to your access rights to the content.

- [Narrowing your results](#)
- [Start a new search](#)
- [Language and stemming](#)
- [Phrase match ""](#)
- [Operators](#)
- [Wildcards](#)
- [Advanced search](#)

Você também pode explorar a página de **Dicas para buscas**

Página inicial - navegação

The screenshot shows the SpringerLink homepage. At the top, there is a search bar and navigation links for 'Sign up / Log in', 'English', and 'Academic edition'. Below the search bar, there are links for 'Home' and 'Contact Us'.

Browse by discipline

- » Biomedicine
- » Business and Management
- » Chemistry
- » Computer Science
- » Earth Sciences
- » Economics
- » Education
- » Engineering
- » Environment
- » Geography
- » History
- » Law
- » Life Sciences
- » Literature
- » Materials Science
- » Mathematics
- » Medicine & Public Health
- » Pharmacy
- » Philosophy
- » Physics
- » Political Science and International Relations
- » Psychology
- » Social Sciences
- » Statistics

Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.

New books and journals are available every day.

Featured Journals

- Journal of Materials Science
- Advanced Optical Methods for Brain Imaging
- International Journal of Thermophysics
- SCIENCE CHINA
- MULTIDIMENSIONAL SYSTEMS AND SIGNAL PROCESSING
- LMP Letters in Mathematical Physics

Featured Books

- Information Technology and Applied Mathematics
- GCEC 2017
- Wireless Communication Networks and Internet of Things
- Fluid-Structure-Sound Interactions and Control

Browse 12,126,496 resources

Articles	6,384,670
Chapters	4,157,590
Conference Papers	1,017,082
Reference Work Entries	516,618
Protocols	50,536

A funcionalidade de **navegação** à esquerda é dividida em disciplinas

Clique sobre o assunto desejado para visitar a página inicial da disciplina

Você também pode **navegar por tipo de conteúdo**

Descubra os vários tipos de conteúdo:

- Artigos (Periódicos)
- Capítulos (Livros)
- Artigos de Congressos
- Verbetes de obras de referência
- Protocolos

Página de resultados de busca

Springer Link

related documents

Home • Contact Us

983,244 Result(s) for 'related documents'

Sort By: Relevance | Date Published

Page 1 of 49,163

Include Preview-Only content

Refine Your Search

Content Type

Chapter	482,238
Article	481,981
Conference Paper	97,307
Reference Work Entry	18,219
Protocol	2,825
Book	3

Discipline

see all	
Medicine & Public Health	217,311
Computer Science	116,879
Life Sciences	94,287
Biomedicine	58,829
Physics	54,815

Subdiscipline

see all	
Artificial Intelligence (incl. Robotics)	48,459
Information Systems Applications (incl. Internet)	44,430
Oncology	38,628
Internal Medicine	38,571
Information Storage and Retrieval	35,285

Language

see all	
English	979,196
German	2,848
French	928
Spanish	99
Dutch	87

Chapter
Related documents
The mate's receipt is a document upon which the particulars contained in the bill of lading are based and it is necessary that the information on both documents is substantially the same. It is not a document ...
Alan Mitchell in *Bills of Lading (1990)*
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Chapter
Construction Related Documents
In Chapters 1 and 2 the discussion has been centered on agreements for the providing of engineering services, particularly with the first three Phases of professional engineering services, and the development of ...
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Linking Related Documents: Combining Tag Clouds and Search Queries
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Resultados apenas para pré-visualização

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983,244 Result(s) for 'related documents'

Sort By Relevance ▼

▶ **Date Published**

Page 1 of 49,183

Refine Your Search

Content Type	
Chapter	482,238
Article	481,981
Conference Paper	97,307
Reference Work Entry	16,219
Protocol	2,825
Book	3

Discipline	
see all	
Medicine & Public Health	217,311
Computer Science	116,879
Life Sciences	94,267
Biomedicine	56,829
Physics	54,815

Subdiscipline	
see all	
Artificial Intelligence (incl. Robotics)	48,459
Information Systems Applications (incl. Internet)	44,430
Oncology	38,626
Internal Medicine	36,571
Information Storage and Retrieval	35,265

Language	
see all	
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French	928
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Dutch	87

Chapter

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Página de resultados de busca

Sort By **Relevance** ▾ [Date Published](#) Page 1 of 49,163

(1) Chapter
(2) **Related documents**
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Chapter and Conference Paper

Estrutura dos itens listados nos nas páginas de resultados de busca:

- 1) Tipo de conteúdo
- 2) Título do item listado
- 3) Autor do item listado
- 4) Publicado em qual produto
- 5) Fazer download do PDF (texto integral) ou visualizar em HTML quando disponível

Tipo de conteúdo

Chapter

Related documents

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Chapter and Conference Paper

Tipo de conteúdo

Os seguintes tipos de conteúdos podem ser listados nos resultados de busca:

Unidades maiores como

- Séries
- Livros
- Periódicos
- Obras de referência

Unidades menores como

- Capítulos
- Protocolos
- Artigos
- Verbetes de obras de referência

Página inicial – página de resultados de busca

The screenshot shows the Springer Link search results page for the query 'related documents'. The page features a search bar at the top with the query 'related documents' and a search button. Below the search bar, there are navigation links for 'Home' and 'Contact Us'. A yellow box indicates that 'Include Preview-Only content' is checked. The search results are displayed in a list format, with the first result being a Chapter titled 'Related documents' by Alan Mitchell in 'Bills of Lading (1990)'. The second result is a Chapter titled 'Construction Related Documents' by John R. Clark in 'Using and Understanding Engineering Service and Construction Contracts (1986)'. The third result is a Chapter and Conference Paper titled 'Linking Related Documents: Combining Tag Clouds and Search Queries' by Christoph Trattner and Denis Helic in 'Web Engineering (2010)'. The fourth result is an Article titled 'How many scientific papers are mentioned in policy-related documents? An empirical investigation using Web of Science and Altmetric data' by Robin Haunschild and Lutz Bornmann in 'Scientometrics (2017)'. The fifth result is a Chapter and Conference Paper. On the left side of the page, there is a 'Refine Your Search' section with filters for Content Type, Discipline, Subdiscipline, and Language. The 'Content Type' filter is highlighted with a blue border.

Springer Link

related documents

Home • Contact Us

983,244 Result(s) for 'related documents'

Sort By: Relevance | Date Published | Page 1 of 49,163

Content Type

Chapter	482,238
Article	481,001
Conference Paper	97,307
Reference Work Entry	16,219
Protocol	2,825
Book	3

Discipline

Medicine & Public Health	217,311
Computer Science	116,879
Life Sciences	94,267
Biomedicine	56,829
Physics	54,615

Subdiscipline

Artificial Intelligence (incl. Robotics)	48,459
Information Systems Applications (incl. Internet)	44,430
Oncology	38,826
Internal Medicine	36,571
Information Storage and Retrieval	35,265

Language

English	979,198
German	2,848
French	928
Spanish	99
Dutch	87

Chapter
Related documents
The mate's receipt is a document upon which the particulars contained in the bill of lading are based and it is necessary that the information on both documents is substantially the same. It is not a document ...
Alan Mitchell in *Bills of Lading (1990)*
» Download PDF (526 KB)

Chapter
Construction Related Documents
In Chapters 1 and 2 the discussion has been centered on agreements for the providing of engineering services, particularly with the first three Phases of professional engineering services, and the development of ...
John R. Clark in *Using and Understanding Engineering Service and Construction Contracts (1986)*
» Download PDF (529 KB)

Chapter and Conference Paper
Linking Related Documents: Combining Tag Clouds and Search Queries
Nowadays, Web encyclopedias suffer from a high bounce rate. Typically, users come to an encyclopaedia from a search engine and upon reading the first page on the site they leave it immediately thereafter. To tack...
Christoph Trattner, Denis Helic in *Web Engineering (2010)*
» Download PDF (102 KB)

Article
How many scientific papers are mentioned in policy-related documents? An empirical investigation using Web of Science and Altmetric data
In this short communication, we provide an overview of a relatively newly provided source of altmetrics data which could possibly be used for societal impact measurements in scientometrics. Recently, Altmetric—a ...
Robin Haunschild, Lutz Bornmann in *Scientometrics (2017)*
» Download PDF (339 KB) » View Article

Chapter and Conference Paper

Opções de filtros

Há opções pré-definidas para os filtros à esquerda. Elas lhe ajudarão a otimizar seus resultados de busca

As seguintes opções de filtros estão disponíveis:

- **Tipo de conteúdo**
- **Disciplina**
- **Subdisciplina**
- **Idioma**

Página inicial – opção de organização de resultados

The screenshot shows a search results interface. At the top, it displays "354,265 Result(s) within Business and Management". Below this, there are two main control areas: a "Sort By" dropdown menu set to "Newest First" and a "Date Published" filter section. The "Date Published" section includes a dropdown menu with options "between", "between", and "in", and input fields for the years "1852" and "2019". Below the controls, two book results are visible: "Business Process Crowdsourcing" and "Managing Sustainable Business".

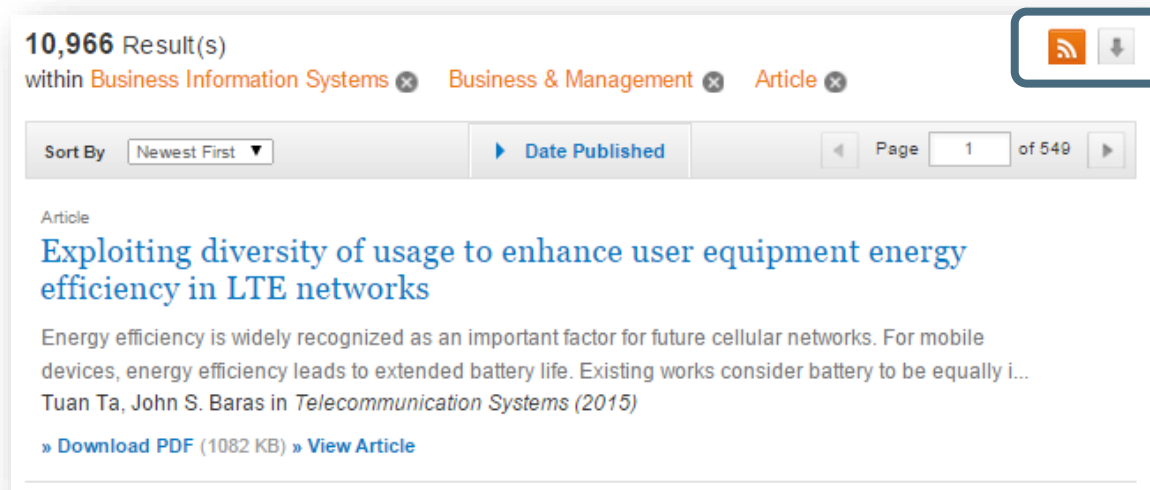
Por padrão, os resultados de buscas são organizados por “mais recentes primeiro”

As opções são:

- Mais recentes primeiro
- Mais antigos primeiro

Você também pode pesquisar apenas dentro de uma determinada faixa de datas

Página inicial – download e feed RSS



10,966 Result(s)
within [Business Information Systems](#) [Business & Management](#) [Article](#)

Sort By [Date Published](#) Page 1 of 549

Article
[Exploiting diversity of usage to enhance user equipment energy efficiency in LTE networks](#)
Energy efficiency is widely recognized as an important factor for future cellular networks. For mobile devices, energy efficiency leads to extended battery life. Existing works consider battery to be equally i...
Tuan Ta, John S. Baras in *Telecommunication Systems (2015)*
[» Download PDF \(1082 KB\)](#) [» View Article](#)

The screenshot shows a search results page with a blue box highlighting an RSS icon and a download button in the top right corner. The main content area displays a search result for an article titled "Exploiting diversity of usage to enhance user equipment energy efficiency in LTE networks" by Tuan Ta and John S. Baras, published in "Telecommunication Systems (2015)". Below the title, there is a brief abstract and two links: "Download PDF (1082 KB)" and "View Article".

Lista de downloads

No cabeçalho da página há uma seta para fazer download dos primeiros 1000 resultados de busca em formato CSV

Feed RSS

Para assinar um feed RSS dos seus resultados de busca, clique no botão alaranjado

Página inicial – suporte e feedback

The image shows a screenshot of the SpringerLink website. The main navigation bar includes the SpringerLink logo, a search bar, and links for 'Sign up / Log in', 'English', and 'Academic edition'. Below the navigation bar, there is a 'Browse by discipline' section with a list of categories: Biomedicine, Business and Management, Chemistry, Computer Science, Earth Sciences, Economics, Education, Engineering, Environment, Geography, History, Law, Life Sciences, Literature, and Materials Science. A large orange arrow points from a small icon in the bottom left corner of the browser window to the 'SpringerLink Support & Feedback' form. The form includes fields for 'Requester' and 'Subject', a rich text editor with formatting options (bold, italic, underline, list, link, unlink, text color, background color), and input fields for 'Customer / Business Partner #' and 'Brand'. There is also a checkbox labeled 'I'm not a robot'.

Clique nos ícones de envelope e de balão de diálogo à esquerda para acessar o **formulário** e o **chat** de Suporte e Feedback

The image shows a dialog box titled 'Click Here to Chat'. The text inside the dialog box reads: 'To connect with an agent please let us know the following:'. Below this text are two input fields: 'Name *' and 'Email *'. At the bottom of the dialog box is a large grey button with a white checkmark icon.

Páginas de produtos

- Páginas de produtos
- Indicadores de Acesso Aberto

3.0

Páginas de produtos – barra azul

» Browse Volumes & Issues

Journal of Cancer Education

ISSN: 0885-8195 (Print) 1543-0154 (Online)

Description

This journal presents research that aims to improve current cancer education techniques and solve current problems that exist in educating patients, and strengthening existing programs. The Journal of Cancer Education serves as the ideal source to educate physicians, dentists, nurses, students, social workers as well as other allied health professionals, patients, and the general public in various aspects of cancer education ... [show all](#)

Browse Volumes & Issues

Latest Articles

EDITORIAL

Building a Culture of Excellence in Cancer Education: a Message from Your President

Kathleen Heneghan (June 2018)

» [Download PDF](#) (264KB) » [View Article](#)

Correction

Correction to: Health-Related Information-Seeking Behaviors and Preferences Among Mexican Patients with Cancer

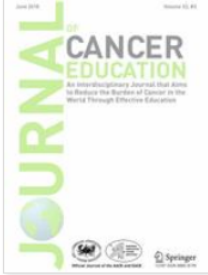
Enrique Soto-Perez-de-Celis, Viridiana Perez-Montessoro... (June 2018)

» [Download PDF](#) (269KB) » [View Article](#)

OriginalPaper

Interdisciplinary Oncology Education: a National Survey of Trainees and Program Directors in the United States

Adil S. Akthar, Christopher D. Hellekson, Sabha Ganai... (June 2018)



Impact Factor	Available
1.329	2007 - 2018
Volumes	Issues
12	63
Articles	Open Access
1,590	56 Articles

Stay up to Date

- Article abstracts by RSS
- Register for journal updates

Find a Volume or Issue

No cabeçalho de todas as páginas de produtos há uma **barra azul** que permanece sempre visível

A funcionalidade oferecida nessa barra irá variar conforme a página visitada

Indicadores de Acesso Aberto

Sort By Relevance Date Published Page 1 of 193

Protocol
Stereochemistry and Validation of Macromolecular Structures
 Macromolecular structure is governed by the strict rules of stereochemistry. Several approaches to the validation of the correctness of the interpretation of crystallographic and NMR data that underlie the ... in...
 Alexander Wlodawer in *Protein Crystallography (2017)*
 » Download PDF (589 KB) » View Protocol

Article
 (1) **Validation of macromolecular flexibility in solution by small-angle X-ray scattering (SAXS)** Open Access
 The dynamics of macromolecular conformations are critical to the action of cellular networks. Solution X-ray scattering studies, in combination with macromolecular X-ray crystallography (MX) and nuclear magnet...
 Michal Hammel in *European Biophysics Journal (2012)*
 » Download PDF (748 KB) » View Article

Protocol
Data Mining of Macromolecular Structures
 The use of macromolecular structures is widespread for a variety of ap... structure principles all ... the years toward becoming the standard reso...
 Bart van Beusekom, Anastassis Perrakis... in *Data Mining Techniques*
 » Download PDF (631 KB) » View Protocol

Os indicadores de **Acesso Aberto** irão aparecer em:

- 1) Páginas de resultados de busca
- 2) Páginas de Artigos/Capítulos

 [European Biophysics Journal](#)
 October 2012, Volume 41, [Issue 10](#), pp 789–799 | [Cite as](#)

Validation of macromolecular flexibility in solution by small-angle X-ray scattering (SAXS)

Authors Authors and affiliations

Michal Hammel 

(2) **Open Access** Review
 First Online: 26 May 2012

2.2k Downloads 54 Citations

Página inicial de periódicos

- Visão geral das funcionalidades
- Busca dentro dos conteúdos de periódicos
- Página de resultados de busca por palavra-chave dentro de um periódico
- Navegação em volumes e edições
- Página de resultados com todos os volumes e edições
- Sobre este periódico

4.0

Página inicial de periódicos

(2)

(1) [Browse Volumes & Issues](#)

(3) **Analytical and Bioanalytical Chemistry** (7)

(4) ISSN: 1618-2642 (Print) 1618-2650 (Online)
 ⓘ This journal was previously published under other titles ([view Journal History](#))

(5) **Description**
 Analytical and Bioanalytical Chemistry (ABC) is a truly international journal with a mission to publish excellent research papers from all areas of analytical and bioanalytical science.

Author Benefits

- Online publication in about 20 days from acceptance
- No submission fee for full-color illustrations of accepted articles
- Book discount for contributing authors
- Open Choice, offers authors to have their journal articles made available

... [show all](#)

[Browse Volumes & Issues](#)

(8)

Impact Factor	Available
3.431	1862 - 2017
Volumes	Issues
409	2,455
Articles	Open Access
98,898	499 Articles

(6) **Latest Articles**

Analytical Challenge
 Pink tea challenge
 Lucia D'Ulivo (July 2017)
 » [Download PDF](#) (750KB)

Analytical Challenge
 Solution to redox titration challenge
 Tadeusz Michalowski... (July 2017)
 » [Download PDF](#) (1109KB)

Erratum
 Erratum to: Comparison of potential higher order reference methods for total haemoglobin quantification—an interlaboratory study
 Claudia Frank, Christine Brauckmann, Marie Palos... (July 2017)
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(9)
 Published in cooperation with
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(10) **Stay up to Date**

- » [Article abstracts by RSS](#)
- » [Register for journal updates](#)

(11) **Find a Volume or Issue**

(12) **Share**

Visão geral das funcionalidades

- 1) Explorar volumes e edições
- 2) Buscar neste periódico
- 3) Título do periódico
- 4) ISSN do periódico
- 5) Descrição do periódico
- 6) Lista dos artigos mais recentes
- 7) Capa do periódico
- 8) Métricas e abrangência do conteúdo
- 9) Co-editores/sociedades parceiras
- 10) Alertas e outras informações
- 11) Explorar volumes e edições
- 12) Opções de compartilhamento

Páginas de produtos – busca no próprio periódico

[Browse Volumes & Issues](#)

Search within this journal

Analytical and Bioanalytical Chemistry

ISSN: 1618-2642 (Print) 1618-2650 (Online)

This journal was previously published under other titles ([view Journal History](#))

Description

Analytical and Bioanalytical Chemistry (ABC) is a truly international journal with a mission to publish excellent research papers from all areas of analytical and bioanalytical science.

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- Online publication in about 20 days from acceptance
- No submission fee for full-color illustrations of accepted articles
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[Browse Volumes & Issues](#)

Impact Factor	Available
3.431	1862 - 2017
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Articles	Open Access
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Latest Articles

Analytical Challenge
[Pink tea challenge](#)
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Analytical Challenge
[Solution to redox titration challenge](#)
 Tadeusz Michalowski... (July 2017)
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Stay up to Date

- Article abstracts by RSS
- Register for journal updates

Para encontrar artigos de periódicos relevantes, você pode inserir um termo na busca para explorar os conteúdos de um periódico

Os resultados serão exibidos em uma lista de resultados de busca. Você estará deixando o ambiente da página do produto periódico

Páginas de produtos – busca com palavras-chave no próprio periódico

25,261 Result(s) for 'results'

You are now only searching within the Journal Analytical and Bioanalytical Chemistry
STOP searching within this Journal ✕

Sort By: Relevance ▾ | Date Published ▶ | Page 1 of 1,264

Article
Non-extractive and specific radioimmunoassay for cortisol: Results using a pure cortisol-C₃-derivative for antigen and tracer production
 G. Stalla, G. Giesemann, O. A. Müller... in *Fresenius' Zeitschrift für analytische Che...* (1980)
 » Download PDF (106 KB)

Article
First results of two external intercomparison programmes for the determination of organochlorine compounds in blood specimens relevant in environmental and occupational medicine
 Since 1982, the German Society of Occupational Medicine has offered intercomparison programmes for external quality control in the toxicological analyses of biological materials. In the last two round robins the ...
 K. H. Schaller, J. Angerer, G. Lehnert in *Fresenius' Journal of Analytical Chemistry* (1993)
 » Download PDF (276 KB)

Refine Your Search

Content Type

Article	25,261
---------	--------

Discipline

Chemistry	22,651
Chemistry and Materials Science	154
Medicine	4

Subdiscipline see all

Analytical Chemistry	20,849
Food Science	20,849
Inorganic Chemistry	13,169
Physical Chemistry	13,169
Monitoring/Environmental Analysis/Environmental Ecotoxicology	10,484

Language

English	21,968
German	3,286
French	7

Acima da lista de resultados de pesquisa, você pode ver o termo buscado e o nome do periódico

Páginas de produtos – navegação em volumes e edições de periódicos

(1)

The screenshot shows the journal's homepage. At the top, a blue navigation bar contains a magnifying glass icon and the text "Browse Volumes & Issues", which is highlighted with a blue box and labeled (1). To the right of this bar is a search box with the placeholder text "Search within this journal". Below the navigation bar, the journal title "Analytical and Bioanalytical Chemistry" is displayed, along with its ISSN (1618-2642 Print, 1618-2650 Online) and a link to "view Journal History". A "Description" section follows, stating the journal's mission. Below that is an "Author Benefits" section with a list of advantages. To the right of the text is a cover image of the journal. Further down, a table provides key statistics: Impact Factor (3.431), Available issues (1862-2017), Volumes (409), Issues (2,455), Articles (98,898), and Open Access (499 Articles). Below the table are logos of partner societies (GDCh, ASAC, etc.) and a "Stay up to Date" section with links for RSS and journal updates. At the bottom, a "Latest Articles" section lists three articles with their titles, authors, and download links. A "Find a Volume or Issue" search box is highlighted with a blue box and labeled (3), containing input fields for "Volume", "Issue", and a "Find" button.

Analytical and Bioanalytical Chemistry
 ISSN: 1618-2642 (Print) 1618-2650 (Online)
 This journal was previously published under other titles ([view Journal History](#))

Description
 Analytical and Bioanalytical Chemistry (ABC) is a truly international journal with a mission to publish excellent research papers from all areas of analytical and bioanalytical science.

Author Benefits

- Online publication in about 20 days from acceptance
- No submission fee for full-color illustrations of accepted articles
- Book discount for contributing authors
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Impact Factor	Available
3.431	1862 - 2017
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409	2,455
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Latest Articles

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Analytical Challenge
 Solution to redox titration challenge
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Erratum
 Erratum to: Comparison of potential higher order reference methods for total haemoglobin quantification—an interlaboratory study
 Claudia Frank, Christine Brauckmann, Marie Palos... (July 2017)
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Find a Volume or Issue

Volume Issue Find

- 1) Na página inicial do periódico, clique no link **Todos os volumes e edições** na barra azul no alto da página
- 2) Você também pode utilizar o botão azul **Navegar volumes e edições** para ter a mesma visão geral
- 3) Utilize a **caixa cinza** à direita de Latest Articles para explorar volumes ou edições específicos

Páginas de produtos – todos os volumes e edições de periódicos

The screenshot shows the journal's homepage with a search bar at the top. Below the journal title, there are tabs for 'Volumes' and 'Topical Collections'. A list of volumes is shown, with 'Volume 409' selected. A callout box highlights a specific article from July 2017, Issue 18, with three numbered steps: (1) clicking 'Online First', (2) clicking the volume link, and (3) clicking the article title.

- 1) Clique na aba Online First para buscar os artigos mais recentes que ainda não foram adicionados a uma edição (não se aplica a todos os periódicos)
- 2) Os links para os conteúdos mais recentes serão exibidos no alto da página
- 3) Os conteúdos de volumes mais antigos estarão ocultos dentro das barras cinzas. Clique na barra cinza de cada volume para visualizar seus conteúdos.

Páginas de produtos – sobre este periódico

▼ **About this Journal**

(1) Journal Title
Analytical and Bioanalytical Chemistry

Coverage
Volume 1/1862 - Volume 409/2017

Print ISSN
1618-2642

Online ISSN
1618-2650

Publisher
Springer

(2) Additional Links

- » Register for Journal Updates
- » Editorial Board [↗](#)
- » About This Journal [↗](#)
- » Manuscript Submission [↗](#)

(3) Topics

- » Analytical Chemistry
- » Biochemistry, general
- » Laboratory Medicine
- » Characterization and Evaluation of Materials
- » Food Science
- » Monitoring/Environmental Analysis

(4) Industry Sectors

- » Pharma
- » Materials & Steel
- » Automotive
- » Chemical Manufacturing
- » Health & Hospitals
- » Biotechnology
- » Finance, Business & Banking
- » Electronics
- » IT & Software
- » Telecommunications
- » Consumer Packaged Goods
- » Energy, Utilities & Environment
- » Aerospace
- » Oil, Gas & Geosciences
- » Engineering

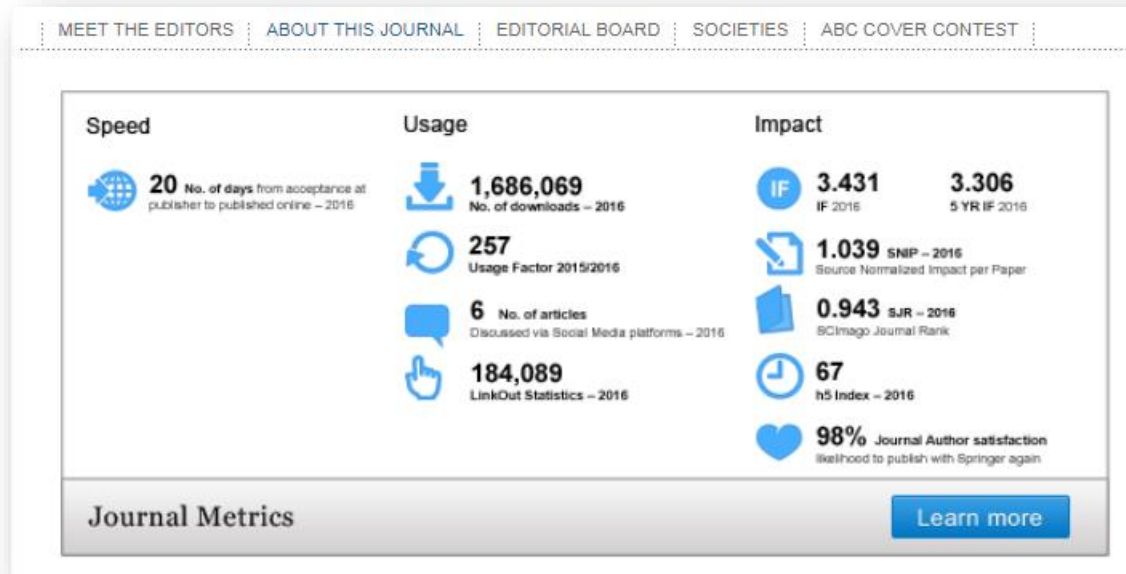
(5) ▼ Journal History

Previous Title	Print ISSN	Online ISSN
Fresenius' Journal of Analytical Chemistry	0937-0633	1432-1130
Fresenius' Journal of Analytical Chemistry	0016-1152	1618-2650
Journal of Analytical Chemistry	0016-1152	1618-2650

Na parte inferior da página inicial do periódico há informações detalhadas sobre a publicação:

- 1) Informações bibliográficas
- 2) Links Adicionais: Receber atualizações do periódico, Conselho editorial, Sobre este periódico e Envio de originais
- 3) Assuntos: links para resultados de busca relacionados
- 4) Setores da indústria: links para resultados de busca relacionados
- 5) Histórico do periódico: detalhes sobre edições anteriores

Páginas de produtos – links adicionais



Em Links Adicionais, você encontrará informações, tais como:

- 1) Conheça os editores
- 2) Sobre este periódico – utilização e impacto
- 3) Conselho editorial

E muito mais, variando a cada título

Artigo de periódico

- Visão geral das funcionalidades
- Informações sobre título e autor
- Navegação
- Citação
- Referências
- Sobre este artigo

5.0

Artigo de periódico – visão geral das funcionalidades

(1)

(2) [Theoretical and Applied Genetics](#)
November 2018, Volume 131, Issue 11, pp 2397–2412 | [Cite as](#)

(3) QTL mapping and validation of fertility restoration in West African sorghum A₁ cytoplasm and identification of a potential causative mutation for *Rf*₂

(4) Authors: Moctar Kante, Henry Frederick W. Rattunde, Baloua Nébié, Eva Weltzien, Bettina I. G. Haussmann, Willmar L. Leiser

(5) [Open Access](#) | Original Article
First Online: 21 August 2018

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[Conclusion](#)
[Notes](#)
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(10) [7](#) Shares [802](#) Downloads

Abstract

Key message Major A₁ cytoplasm fertility restoration loci, *Rf*₂ and *Rf*₅, were found in the West African sorghum. A potential causative mutation for *Rf*₂ was identified. KASP markers were validated on independent material.

1) Capa do periódico

2) Título do periódico

3) Título do artigo

4) Informações sobre o autor

5) Informações de First Online

6) Download do PDF


7) Citar artigo

8) Compartilhar artigo

9) Links para navegação no artigo

10) Downloads e compartilhamentos

Artigo de periódico – informações sobre título, periódico e autor



[Theoretical and Applied Genetics](#)
January 2012, Volume 124, [Issue 1](#), pp 97–109 | [Cite as](#)

QTL for nodal root angle in sorghum (*Sorghum bicolor* L. Moench) co-locate with QTL for traits associated with drought adaptation

Authors [Authors and affiliations](#)

E. S. Mace , V. Singh, E. J. Van Oosterom, G. L. Hammer, C. H. Hunt, D. R. Jordan

Original Paper
First Online: 22 September 2011

1.6k Downloads Citations

Abstract

Nodal root angle in sorghum influences vertical and horizontal root distribution in the soil profile and is thus relevant to drought adaptation. In this study, we report for the first time on the mapping of four QTL for nodal root angle (*qRA*) in sorghum, in addition to three QTL for root dry weight, two for shoot dry weight, and three for plant leaf area. Phenotyping was done

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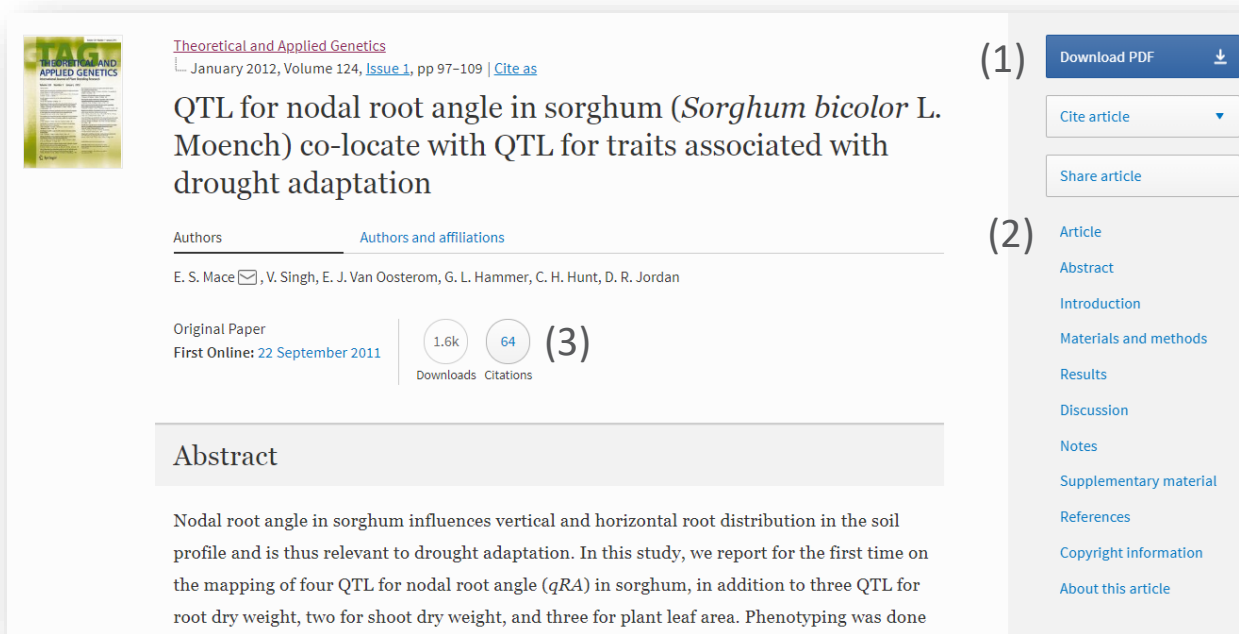
[Cite article](#)

[Share article](#)

- [Article](#)
- [Abstract](#)
- [Introduction](#)
- [Materials and methods](#)
- [Results](#)
- [Discussion](#)
- [Notes](#)
- [Supplementary material](#)
- [References](#)
- [Copyright information](#)
- [About this article](#)

Informações sobre título, periódico e autor são exibidas em destaque na parte superior de todos os artigos

Artigo de periódico – navegação




The screenshot shows the article page for 'QTL for nodal root angle in sorghum (Sorghum bicolor L. Moench) co-locate with QTL for traits associated with drought adaptation' in the journal 'Theoretical and Applied Genetics'. The page includes a cover image, journal information, authors, and a table of contents. A large number '3' is overlaid on the page, pointing to the metrics section.

Theoretical and Applied Genetics
January 2012, Volume 124, Issue 1, pp 97–109 | [Cite as](#)

QTL for nodal root angle in sorghum (*Sorghum bicolor* L. Moench) co-locate with QTL for traits associated with drought adaptation

Authors [Authors and affiliations](#)



E. S. Mace , V. Singh, E. J. Van Oosterom, G. L. Hammer, C. H. Hunt, D. R. Jordan

Original Paper
First Online: 22 September 2011

1.6k Downloads **64** Citations **(3)**

Abstract

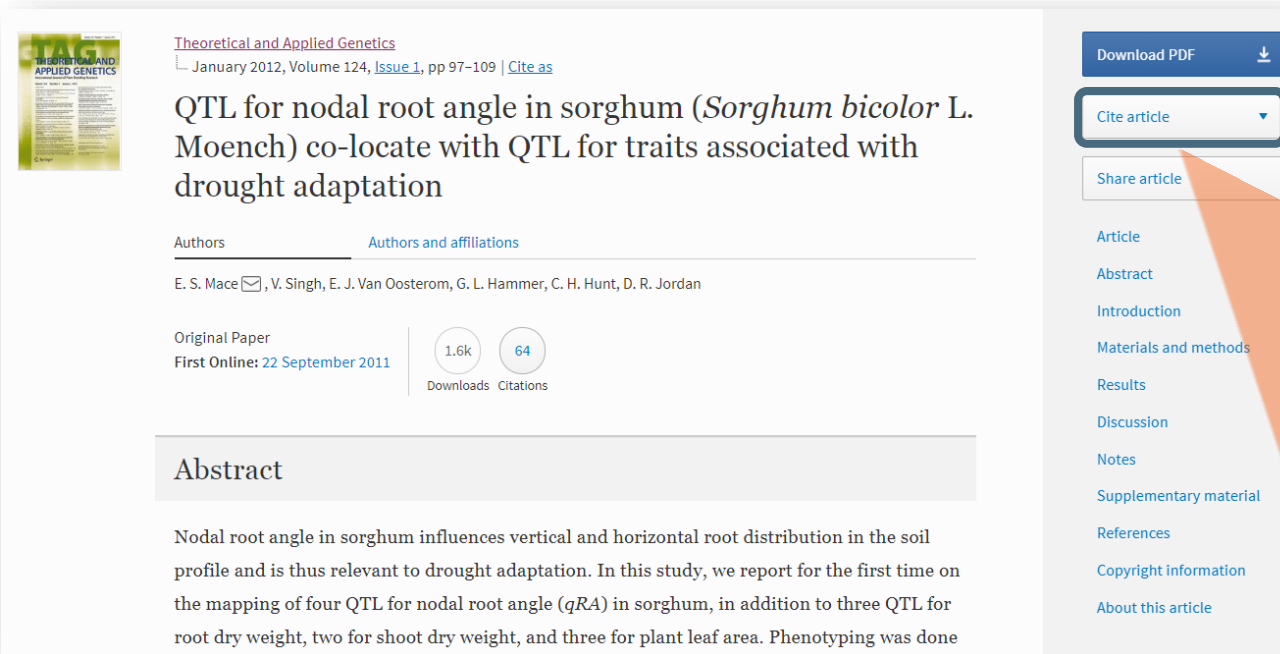
Nodal root angle in sorghum influences vertical and horizontal root distribution in the soil profile and is thus relevant to drought adaptation. In this study, we report for the first time on the mapping of four QTL for nodal root angle (*qRA*) in sorghum, in addition to three QTL for root dry weight, two for shoot dry weight, and three for plant leaf area. Phenotyping was done

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Abstract
Introduction
Materials and methods
Results
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Notes
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About this article

- 1) Na lateral direita há botões para Baixar o PDF, Citar artigo e Compartilhar o artigo
- 2) Logo abaixo há links para os títulos de secções do artigo. Por exemplo (quando disponíveis), Resumo, Materiais suplementares e Referências
- 3) Abaixo das informações principais do artigo estão suas métricas correspondentes

Artigo de periódico – citar artigo




The screenshot shows the article page for 'QTL for nodal root angle in sorghum (Sorghum bicolor L. Moench) co-locate with QTL for traits associated with drought adaptation'. The page includes a journal cover, title, authors (E. S. Mace, V. Singh, E. J. Van Oosterom, G. L. Hammer, C. H. Hunt, D. R. Jordan), and an abstract. On the right side, there is a 'Download PDF' button and a 'Cite article' dropdown menu. The dropdown menu is open, showing options like 'Article', 'Abstract', 'Introduction', etc., and a 'Cite article' sub-menu.

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QTL for nodal root angle in sorghum (*Sorghum bicolor* L. Moench) co-locate with QTL for traits associated with drought adaptation

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E. S. Mace , V. Singh, E. J. Van Oosterom, G. L. Hammer, C. H. Hunt, D. R. Jordan


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Abstract

Nodal root angle in sorghum influences vertical and horizontal root distribution in the soil profile and is thus relevant to drought adaptation. In this study, we report for the first time on the mapping of four QTL for nodal root angle (*qRA*) in sorghum, in addition to three QTL for root dry weight, two for shoot dry weight, and three for plant leaf area. Phenotyping was done

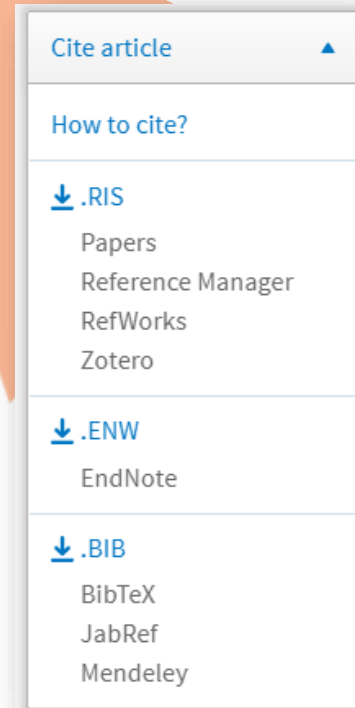
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Bassam BJ, Caetano-Anollés G (1993) Automated “hot start” PCR using mineral oil and paraffin wax. *Biotechniques* 14:30–34

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Bengough AG, Gordon DC, Al-Menaie H, Ellis RP, Allan D, Keith R, Thomas WTB, Forster BP (2004) Gel observation chamber for rapid screening of root traits in cereal seedlings. *Plant Soil* 262:63–70

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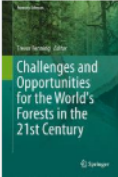
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Biofuels Climate change Conservation Forest Resources Forestry Forests
Sustainable development

(3) Editors and affiliations

Trevor Fenning ¹

1. Forest Research, Northern Research Station, UK Forestry Commission, Edinburgh, United Kingdom

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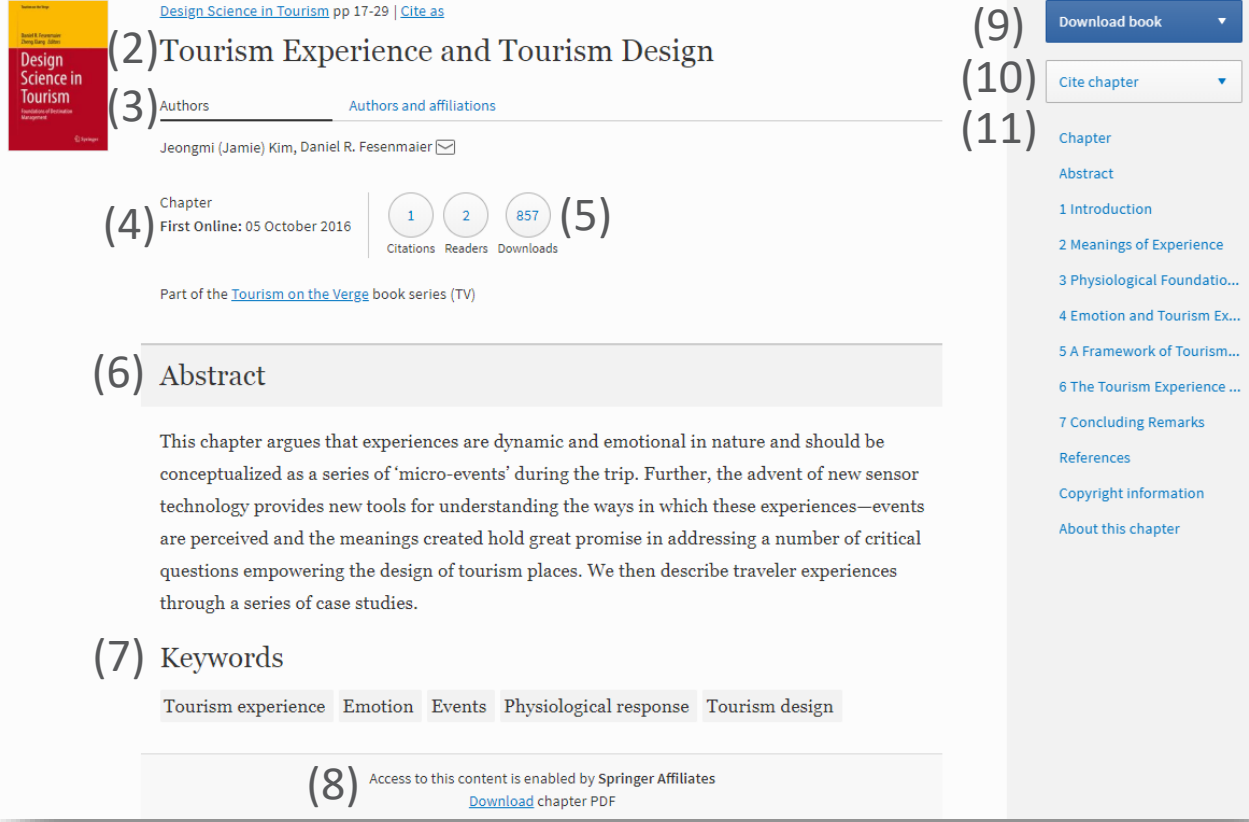
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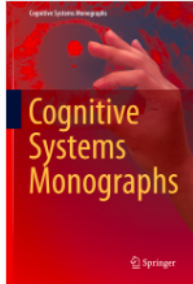
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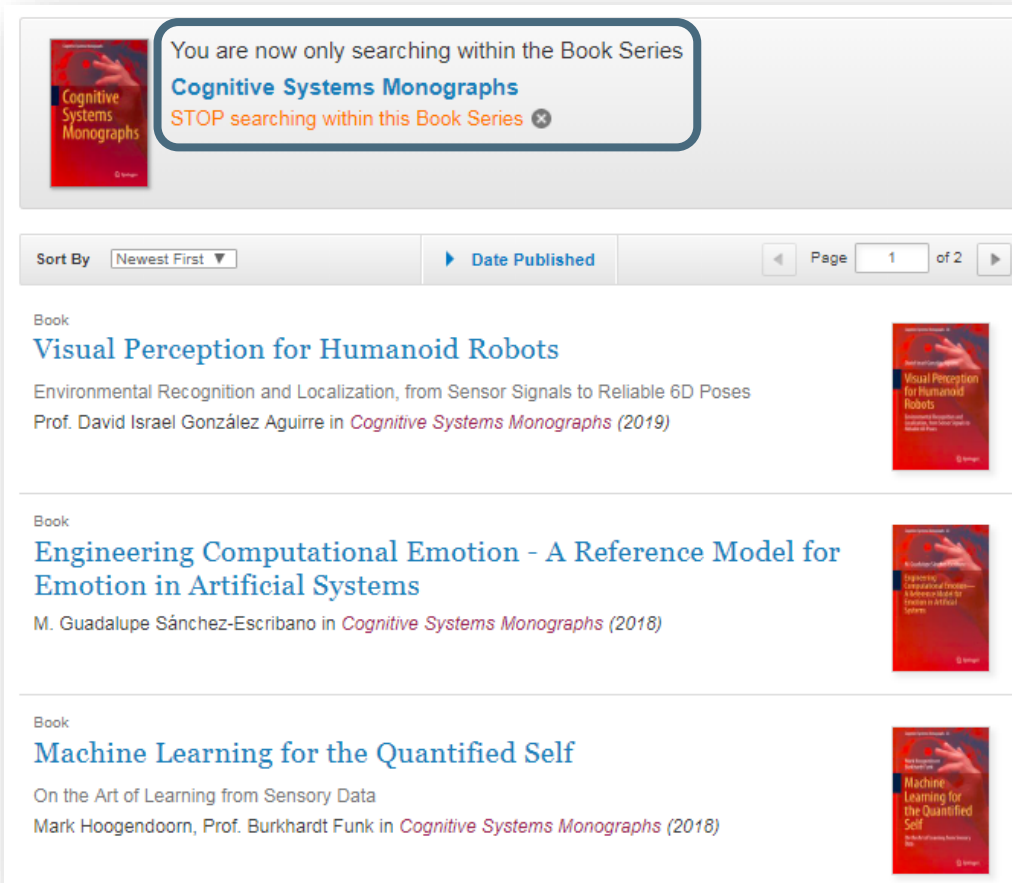
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(3) Search

Page 1 of 59

(4) Introduction

Editors and affiliations

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Evolutionary psychology is a hybrid discipline that draws insights from modern evolutionary theory, biology, cognitive psychology, anthropology, economics, computer science, and paleoarchaeology. The discipline rests on a foundation of core premises: 1. Manifest behavior depends on underlying psychological mechanisms, information processing devices housed in the brain, in conjunction with the external and internal inputs that trigger their activation. 2. Evolution by selection is the only known causal process capable of creating such complex organic mechanisms. 3. Evolved psychological mechanisms are functionally specialized to solve adaptive problems that recurred for humans over deep evolutionary time. 4. Selection designed the information processing of many evolved psychological mechanisms to be adaptively influenced by specific classes of information from the environment. 5. Human psychology consists of a large number of functionally specialized evolved mechanisms, each serving particular forms of contextual input that get combined, coordinated

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2. , Rochester, USA

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(1)  (2) [Microinjection](#) pp 43-69 | [Cite as](#)

(3) **Transgene Recombineering in Bacterial Artificial Chromosomes**

(4) Authors [Authors and affiliations](#)

Michael G. Zeidler, Thomas L. Saunders 

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Bacterial Artificial Chromosome (BAC) libraries are a valuable research resource. Any one of the clones in these libraries can carry hundreds of thousands of base pairs of genetic information. Often the entire coding sequence and significant upstream and downstream regions, including regulatory elements, can be found in a single BAC clone. BACs can be put to many uses, such as to study the function of human genes in knockout mice, to drive reporter gene expression in transgenic animals, and for gene discovery. In order to use BACs for experimental purposes it is often desirable to genetically modify them by introducing reporter elements or heterologous cDNA sequences. It is not feasible to use conventional DNA cloning approaches to modify BACs due to their size and complexity, thus a specialized field “recombineering” has developed to modify BAC clones through the use of homologous recombination in bacteria with short homology regions. Genetically engineered BACs can then be used in cell culture, mouse, or rat models to study cancer, neurology, and genetics.

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