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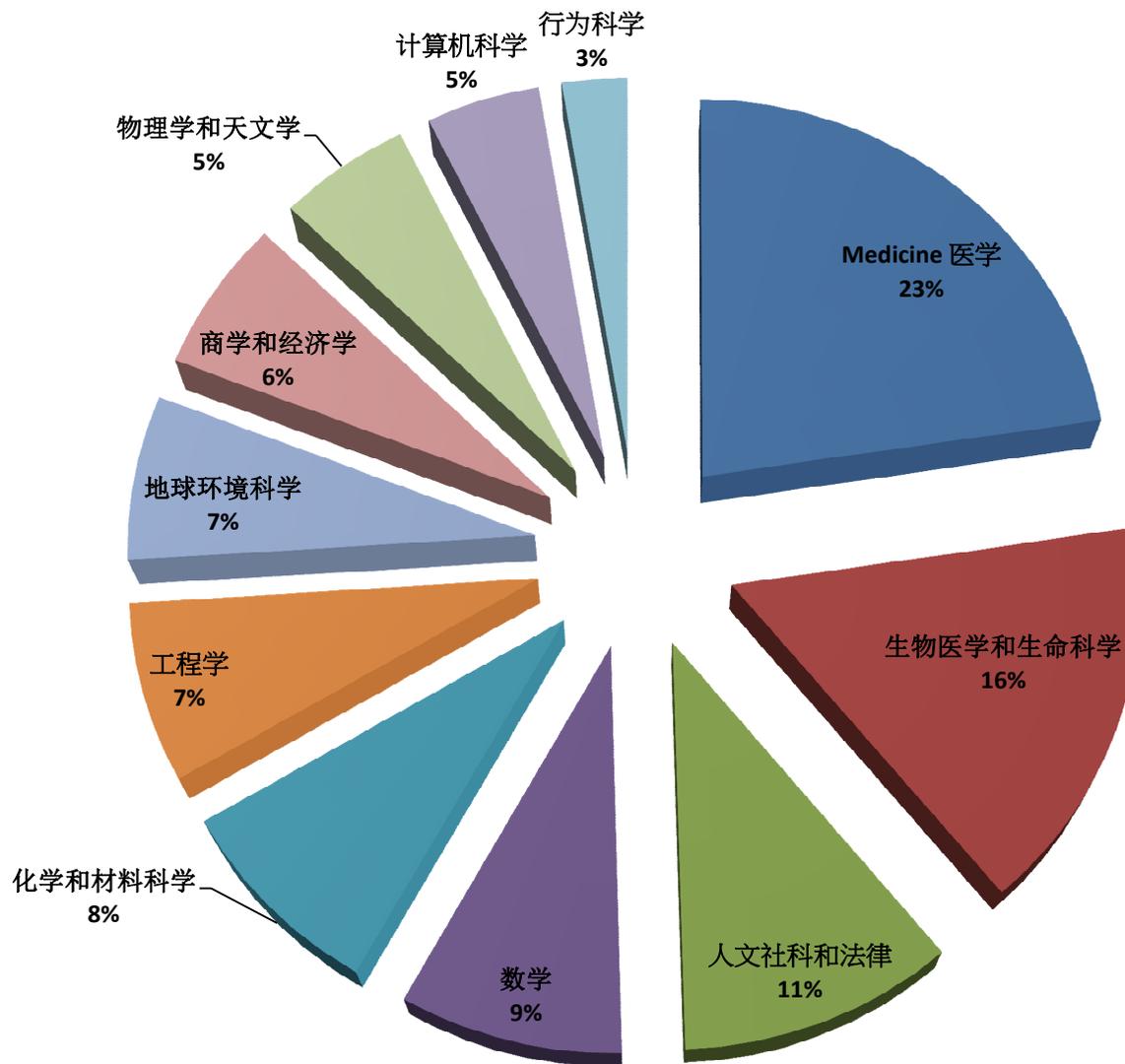
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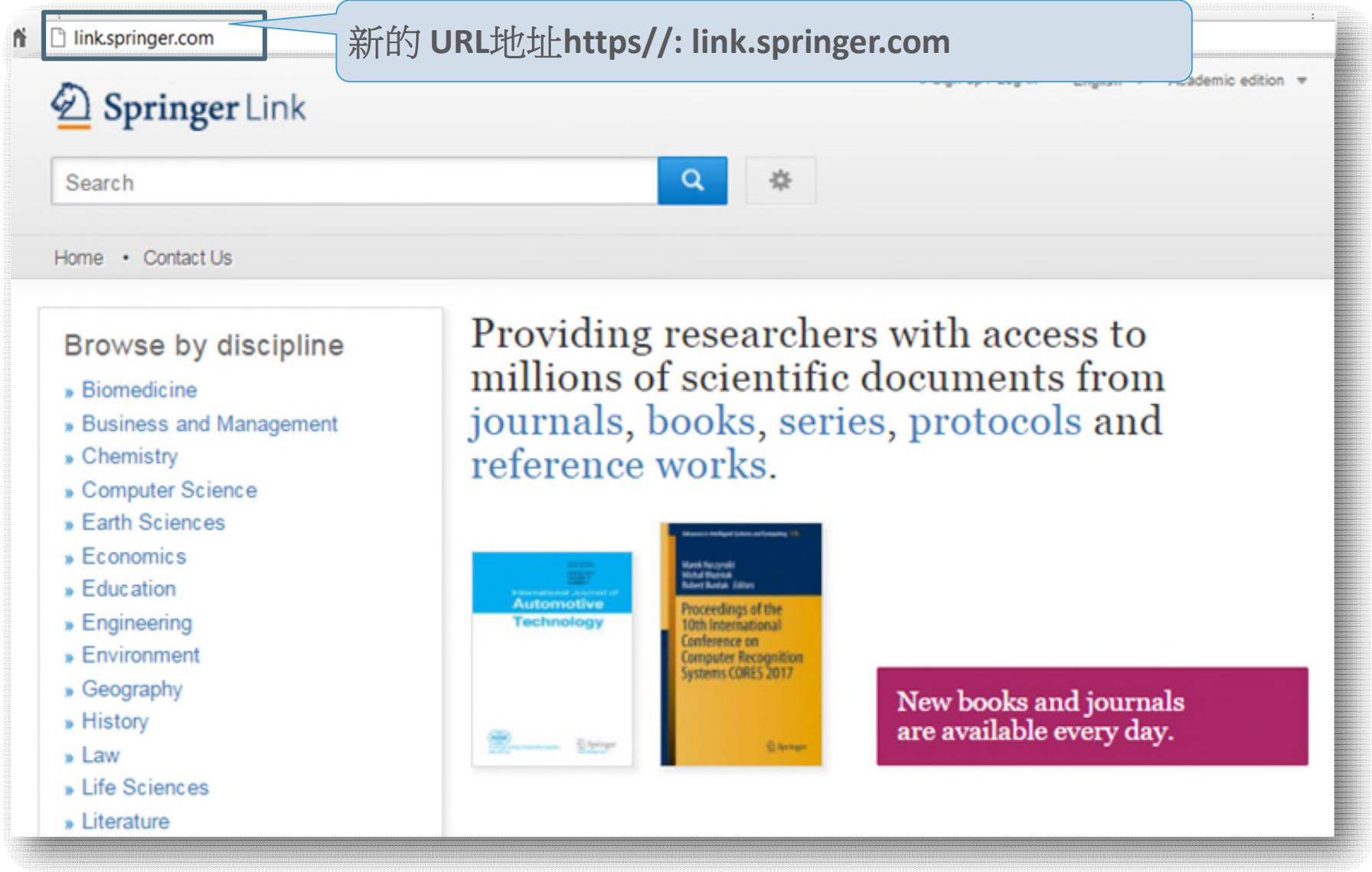
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	Engineering 工程学
	Physics & Astronomy 物理学和天文学
Medicine&Life Science 医学和生命科学	Medicine 医学
	Biomedical & Life Science 生物医学和生命科学
Social Science and Humanity 社会科学和人文科学	Behavioral Science 行为科学
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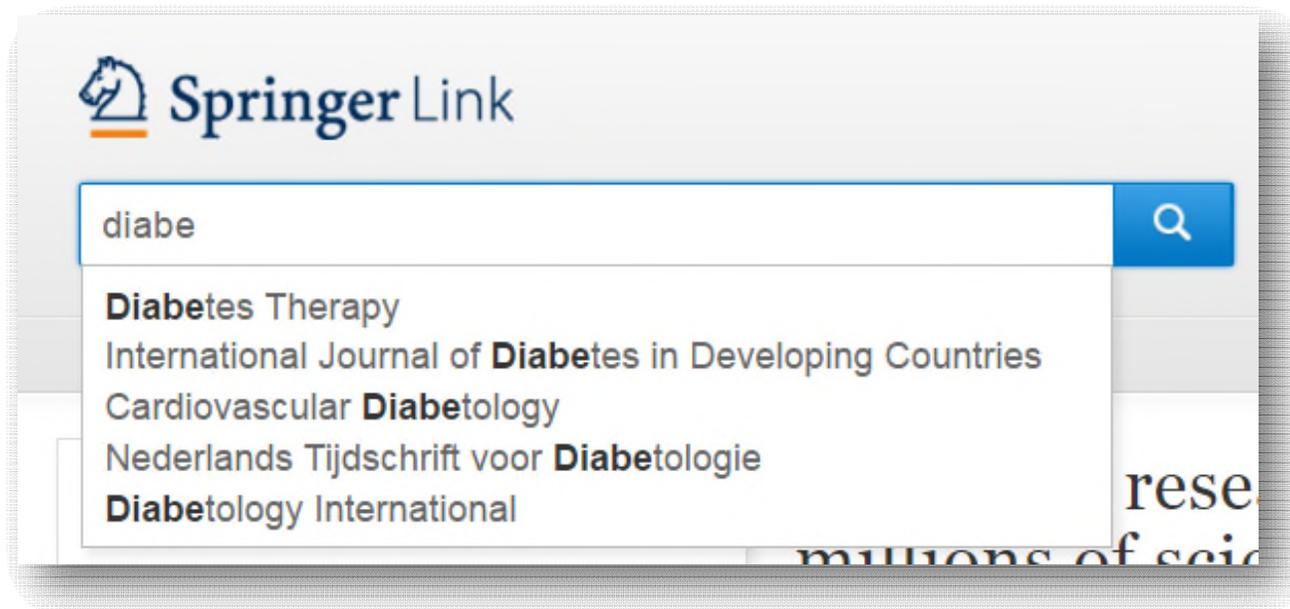
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Mark Record, Shihai Ren, Robert Runkel, Editors  
Proceedings of the 10th International Conference on Computer Recognition Systems CORES 2017

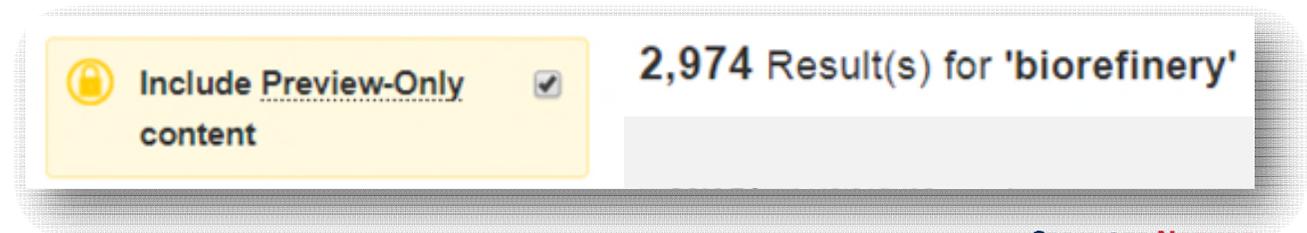
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# 更多新功能：

## 直接链接到HTML部分

The image shows a screenshot of a journal article page from the European Biophysics Journal. The article title is "Validation of macromolecular flexibility in solution by small-angle X-ray scattering (SAXS)" by Michal Hammel. The page includes a navigation menu on the right with options like "Download PDF", "Export citation", and "Share article". A blue arrow points from the "Article" link in the menu to a preview of the article's abstract. The abstract preview shows the title "Abstract" and the beginning of the text: "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."

**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

**Article**

**Abstract**

**Introduction**

**SAXS profile as a indicator...**

**SAXS profiles provide mor...**

**Accurate computation of S...**

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**Distance constraints in rigi...**

**The conformational ensem...**

**Conclusions and prospects**

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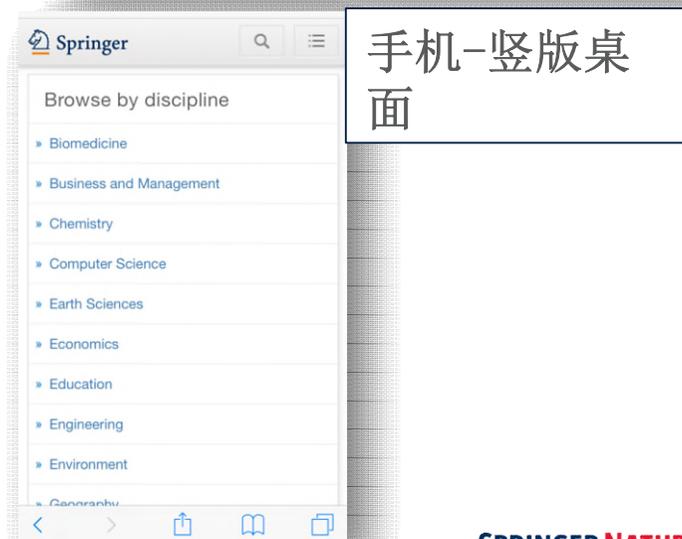
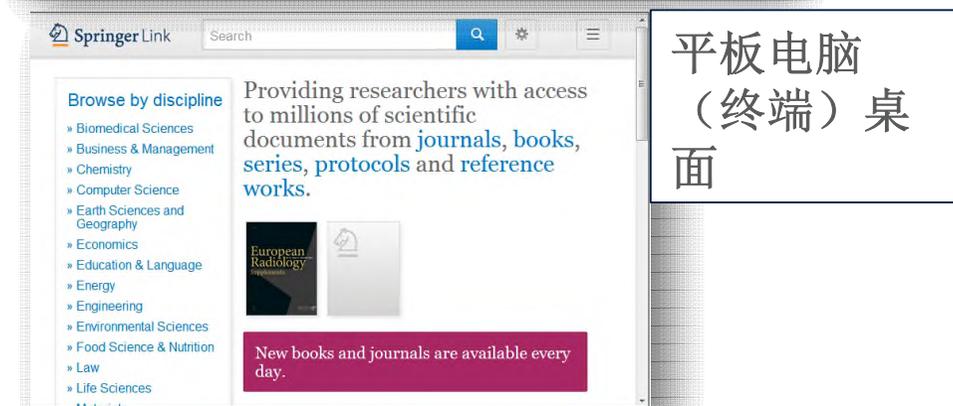
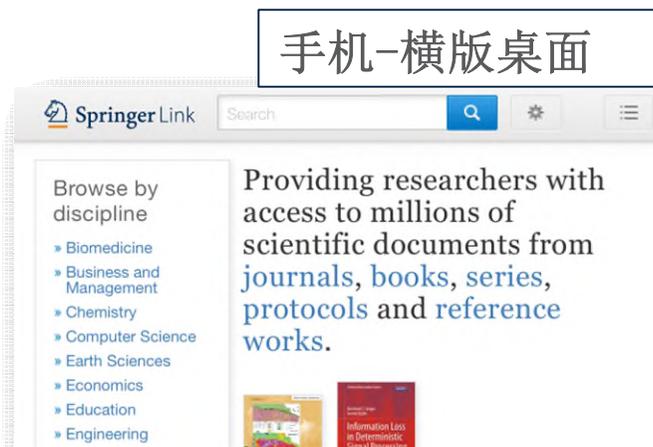
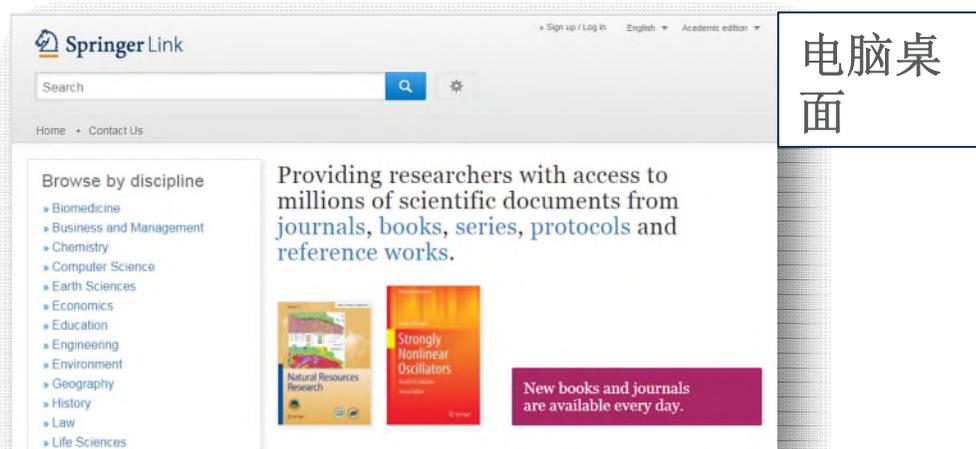
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# 1.0

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(1) Search bar

(2) Browse by discipline

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Featured Journals

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主页分为三个部分：

- 1) 搜索功能
- 2) 浏览功能
- 3) 根据您的个人资料提供的相关内容

# 主页

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<input type="button" value="Log in"/>	<a href="#">Forgotten password?</a>
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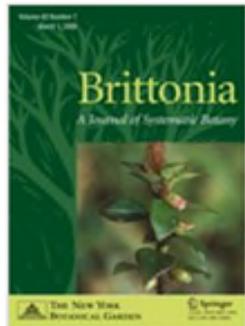
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- Nachrichten und Aufklärung
- Software Engineering Research, Management and Applications

**Browse 11,491,527 resources**

Articles	6,095,523
Chapters	3,954,766
Conference Papers	916,173
Reference Work Entries	478,532
Protocols	46,533

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细分：

- 章节
- 指南
- 文章
- 参考工具书条目

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**Article** **Open Access**  
**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)*  
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**Chapter and Conference Paper**

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在页面左方有聚类选项帮助您优化搜索结果

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- 内容类型
- 学科
- 子学科
- 语言

# 搜索结果页面



The screenshot shows a search results page for 'Small Business Economics'. At the top, it displays '338,395 Result(s) within Business & Management'. Below this, there are two dropdown menus for sorting: 'Sort By' set to 'Newest First' and 'Date Published'. The page is on 'Page 1 of 16,920'. A search filter is set to 'Show documents published between 1852 and 2018'. The first result is the journal 'Small Business Economics', Volume 1 / 1989 - Volume 45 / 2015. Below the journal information, an article is listed: 'Productivity growth persistence: firm strategies, size and system properties' by Cristiano Antonelli, Francesco Crespi, and Giuseppe Scellato, published in 'Small Business Economics' (2015). The article description states: 'This paper investigates the dynamics of productivity in a large sample of Italian manufacturing firms, focusing on the determinants of firm-level persistence in time of high total factor productivity (TFP) gro...'

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默认条件下，检索结果按照出版顺序排序，更多的排序选项包括：

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# 搜索结果页面



10,966 Result(s)  
within **Business Information Systems** × **Business & Management** × **Article** ×

Sort By **Newest First** ▾ **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)*  
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The image shows a screenshot of the SpringerLink website. On the left side, there is a navigation menu titled "Browse by discipline" with various categories listed. A blue box highlights an envelope icon in the left sidebar, with an orange arrow pointing to a "SpringerLink Support & Feedback" modal window. The modal window contains a form with the following fields and elements:

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# 产品页面

- 产品页面- 蓝色条状框
- 开放获取标记
- 期刊
- 图书
- 参考工具书
- 丛书
- 实验指南

# 2.0

# 产品页面

» Browse Volumes & Issues

Search within this journal

## 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](#)

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### Latest Articles

OriginalPaper

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Maura C. Schottenfeld

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Humanism in Oncology: A Call for a New Paradigm

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Enrico Aitini (Ed.)

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cancer continuent de demander avec force un accompagnement pendant et après leur traitement que ce soit à l'hôpital ou à domicile. Or, cette prise en charge ne peut se faire qu'autour d'un pivot identifié et reconnu: le médecin généraliste » furent les premiers mots du professeur Gilbert Lenoir, président de la Ligue Contre le Cancer, en guise d'introduction à la 1re journée nationale du médecin généraliste face au cancer du 7 octobre 2010. La problématique de la prise en charge de proximité des patients atteints de cancer « revient » aux médecins généralistes.

蓝色条状框

在页面的最上方，即使页面向下卷动，蓝条状框将一直显示

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开放获取标记在以下内容页面显示：

- 1) 搜索结果页面
- 2) 文章/章节页面

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)

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Article

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

(1) [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)

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Protocol

## Data Mining of Macromolecular Structures

The use of macromolecular structures is widespread for a variety of structure principles all ... the years toward becoming the standard ...  
Bart van Beusekom, Anastassis Perrakis... in *Data Mining Techniq*

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[European Biophysics Journal](#)

October 2012, Volume 41, [Issue 10](#), pp 789-799

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

Authors Authors and affiliations

Michal Hammel

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First Online: 26 May 2012

DOI: 10.1007/s00249-012-0820-x

Cite this article as:

Hammel, M. *Eur Biophys J* (2012) 41: 789. doi:10.1007/s00249-012-0820-x

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- 所有卷和期的搜索结果
- 关于此期刊

# 3.0

# 期刊主页

(1) Browse Volumes & Issues

(2) Search within this journal

(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.

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Pink tea challenge  
Lucia D'Ulivo (July 2017)  
» Download PDF (750KB)

Analytical Challenge  
Solution to redox titration challenge  
Tedeusz 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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(8) Impact Factor Available  
3.431 1862 - 2017

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409 2,455

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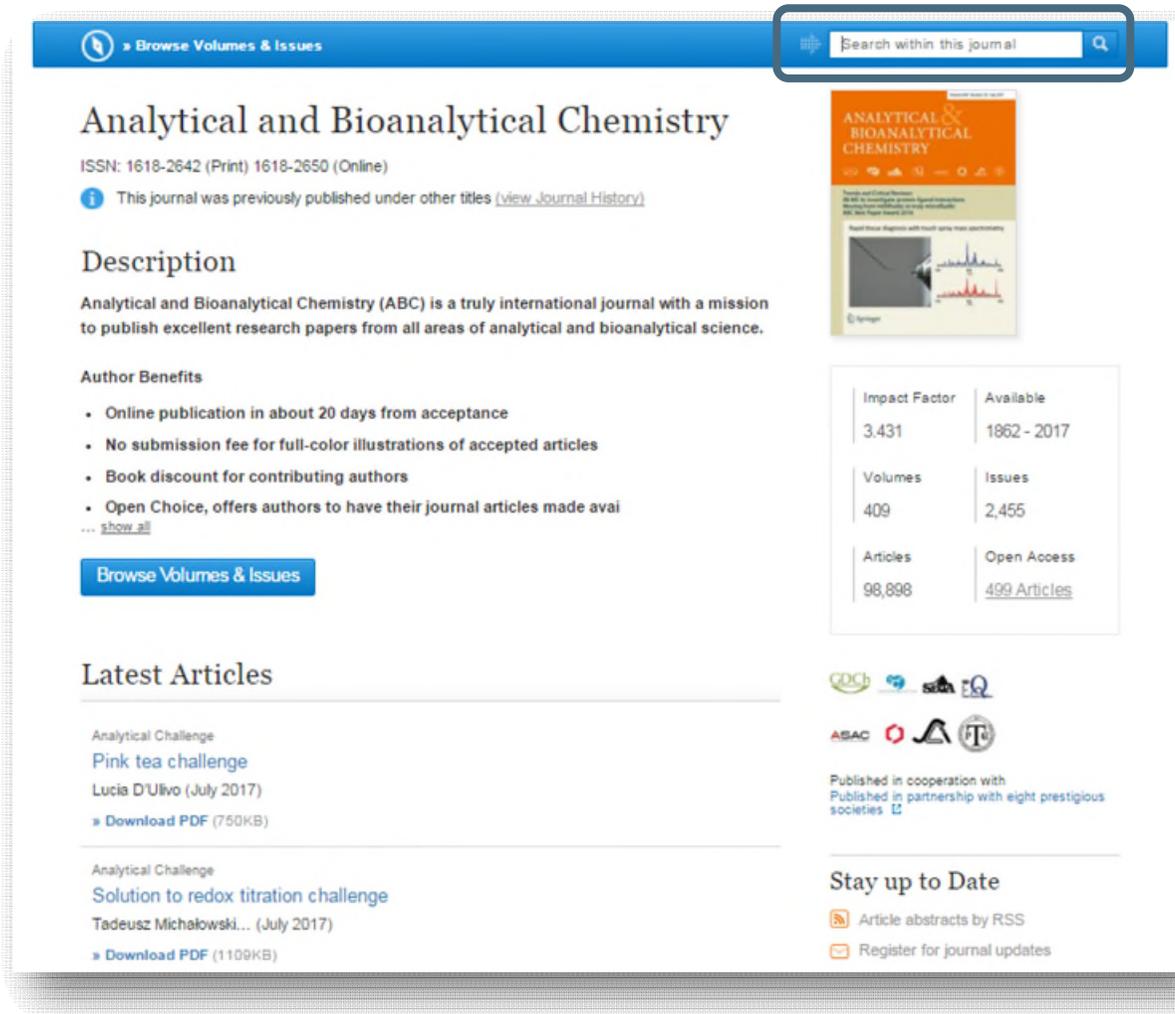
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- 4) 期刊 ISSN
- 5) 期刊描述
- 6) 期刊最新文章列表
- 7) 期刊封面
- 8) 期刊指标和内容范围
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搜索结果将以列表形式显示，跳转到新的页面

# 搜索结果页面

25,261 Result(s) for 'results'

You are now only searching within the Journal  
**Analytical and Bioanalytical Chemistry**  
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Sort By: Relevance | Date Published | Page 1 of 1,264

Article  
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G. Stalla, G. Giesemann, O. A. Müller... in *Fresenius' Zeitschrift für analytische Che...* (1980)  
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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)  
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Article 25,261

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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

在此期刊内用关键词搜索：

在搜索列表的上方会显示搜索条件和期刊名称

# 期刊主页

(1)



## 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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Impact Factor	Available
3.431	1862 - 2017
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- 2) 您也可以点击蓝色按钮“Browse Volumes & Issues”搜索到具体的卷和期
- 3) 在“Latest Articles”右边，有一个灰色表框，让您找到具体的某一卷期。

# 期刊卷和期显示页面

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- 3) 点击“Online First”显示条，您可以查看最新出版的未分配期号的文章

The screenshot displays the journal's homepage for Analytical and Bioanalytical Chemistry. At the top, there is a navigation bar with 'Up to Journal' and a search box. Below the journal title, the ISSN numbers and a link to the journal history are provided. The main section is titled 'All Volumes & Issues' and features a list of volumes. A callout box labeled (2) provides a detailed view of Volume 409, listing three issues with their respective page counts and article titles. Callout (1) points to the 'Volume 409' entry in the main list.

**Volume 409 January 2017 - July 2017**

- July 2017, Issue 18, Pages 4301-4479
- July 2017, Issue 17, Pages 4111-4300  
Pink tea challenge/High-throughput analysis of sub-visible mAb aggregate particles/Electromembrane extraction of highly polar basic drugs/Analysis of honeybush tea volatiles by GC×GC
- June 2017, Issue 16, Pages 3901-4109  
Characterization of odorants in inflatable aquatic toys/Functional AuNPs for optical affinity biosensing/MS/MS of Drosophila brain lipids/Optimal filter substrate for microplastic identification
- June 2017, Issue 15, Pages 3707-3900  
Nanofluids and chemical highly retentive hydrogels for cleaning/Data-dependent isotopologue fragmentation in <sup>13</sup>C/MFA/Identification of odorants in incense cedar wood/Functionalized DNA nanopore for tumor cell recognition

# 期刊主页

▼ **About this Journal**

**(1) Journal Title**  
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**Coverage**  
Volume 1/1862 - Volume 409/2017

**Print ISSN**  
1618-2642

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- » 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

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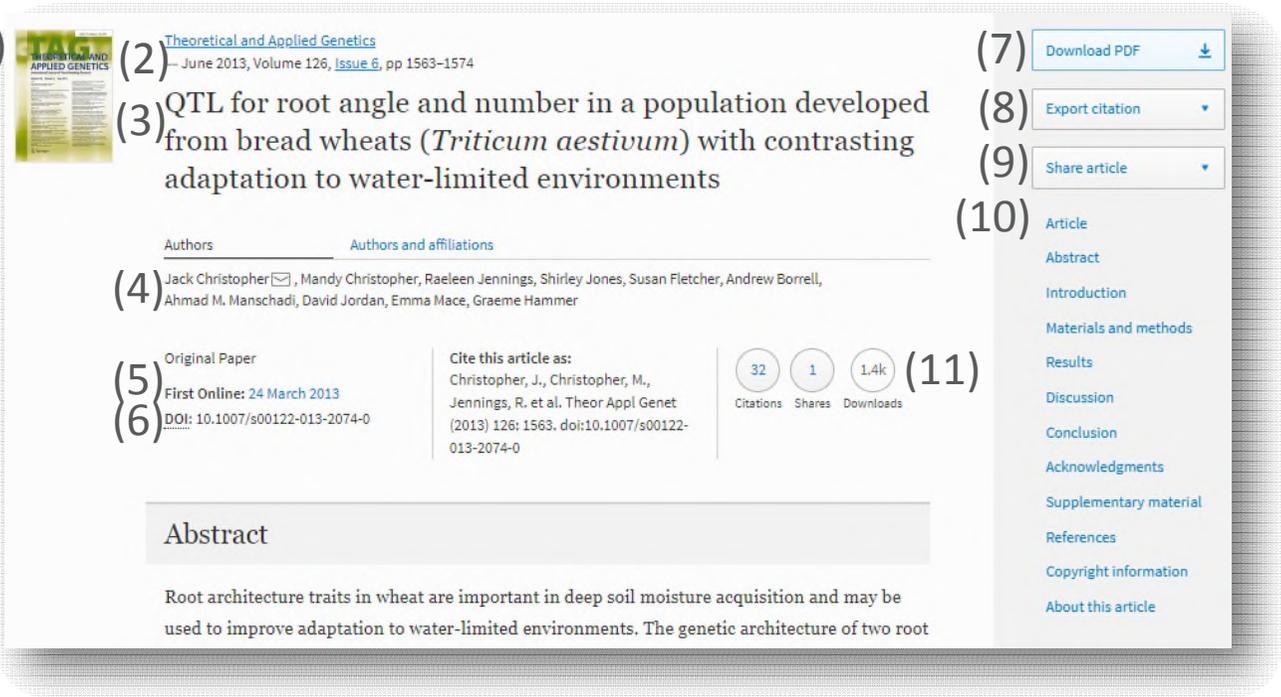
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# 4.0

# 期刊文章



(1) 

(2) [Theoretical and Applied Genetics](#)  
— June 2013, Volume 126, [Issue 6](#), pp 1563–1574

(3) QTL for root angle and number in a population developed from bread wheats (*Triticum aestivum*) with contrasting adaptation to water-limited environments

Authors: Jack Christopher, Mandy Christopher, Raeleen Jennings, Shirley Jones, Susan Fletcher, Andrew Borrell, Ahmad M. Manschadi, David Jordan, Emma Mace, Graeme Hammer

(4) Jack Christopher , Mandy Christopher, Raeleen Jennings, Shirley Jones, Susan Fletcher, Andrew Borrell, Ahmad M. Manschadi, David Jordan, Emma Mace, Graeme Hammer

(5) Original Paper

(6) First Online: 24 March 2013

(6) DOI: 10.1007/s00122-013-2074-0

Cite this article as:  
Christopher, J., Christopher, M., Jennings, R. et al. Theor Appl Genet (2013) 126: 1563. doi:10.1007/s00122-013-2074-0

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Abstract

Root architecture traits in wheat are important in deep soil moisture acquisition and may be used to improve adaptation to water-limited environments. The genetic architecture of two root

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- 1) 期刊封面
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- 3) 文章标题
- 4) 作者
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# 期刊文章

文章标题，期刊与作者信息

文章标题，期刊与作者信息显示在页面的最上方。



Theoretical and Applied Genetics  
June 2013, Volume 126, Issue 6, pp 1563–1574

## QTL for root angle and number in a population developed from bread wheats (*Triticum aestivum*) with contrasting adaptation to water-limited environments

Authors [Authors and affiliations](#)

Jack Christopher , Mandy Christopher, Raeleen Jennings, Shirley Jones, Susan Fletcher, Andrew Borrell, Ahmad M. Manschadi, David Jordan, Emma Mace, Graeme Hammer

Original Paper

First Online: 24 March 2013

DOI: 10.1007/s00122-013-2074-0

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### Abstract

Root architecture traits in wheat are important in deep soil moisture acquisition and may be used to improve adaptation to water-limited environments. The genetic architecture of two root

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**Theoretical and Applied Genetics**  
June 2013, Volume 126, [Issue 6](#), pp 1563–1574

### QTL for root angle and number in a population developed from bread wheats (*Triticum aestivum*) with contrasting adaptation to water-limited environments

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

Jack Christopher , Mandy Christopher, Raeleen Jennings, Shirley Jones, Susan Fletcher, Andrew Borrell, Ahmad M. Manschadi, David Jordan, Emma Mace, Graeme Hammer

Original Paper

**First Online:** 24 March 2013  
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**Abstract**

Root architecture traits in wheat are important in deep soil moisture acquisition and may be used to improve adaptation to water-limited environments. The genetic architecture of two root

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# 期刊文章

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June 2013, Volume 126, Issue 6, pp 1563–1574

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Authors: Jack Christopher, Mandy Christopher, Raeleen Jennings, Shirley Jones, Susan Fletcher, Andrew Borrell, Ahmad M. Manschadi, David Jordan, Emma Mace, Graeme Hammer

Original Paper | Cite this article as: Christopher, J., Christopher, M., Jennings, R. et al. Theor Appl Genet (2013) 126: 1563. doi:10.1007/s00122-013-2074-0

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**References**

Andrews JL, Blundell MJ, Skerritt JH (1996) Differentiation of wheat-rye translocation lines using antibody probes for *Gli-B1* and *Sec-1*. *J Cereal Sci* 23:61–72  
[CrossRef](#) [Google Scholar](#)

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[PubMed](#) [Google Scholar](#)

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  
[CrossRef](#) [Google Scholar](#)

Borrell AK, Incoll LD, Dalling MJ (1991) The influence of the Rht 1 and Rht 2 alleles on the growth of wheat stems and ears. *Ann Bot* 67:103–110  
[Google Scholar](#)

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- 此页面为文章作者使用的参考文献列表。
- 通过“CrossRef”链接，大部分的参考文献可以链接到原始出处

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Hai, Lin... Friedt, Wolfgang  
*Genetica* (2007)
2. [Genetic diversity of local spring bread wheats \(\*Triticum aestivum\* L.\) of West and East Siberia in gliadin genes](#)  
Nikolaev, A. A.... Upelniek, V. P.  
*Russian Journal of Genetics* (2009)
3. [Nitrogen Level and Seeding Rate Effects on the Performance of Hulled Wheats \(\*Triticum monococcum\* L., \*T. dicoccum\* Schubler and \*T. spelta\* L.\) Evaluated in Castagna, R.... Rocchetti, G.](#)  
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Paul McMahon



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Tropical forests are in the front line of efforts to tackle climate change. This article provides an overview of the ecosystem services that tropical forests provide, the way in which rates of deforestation have changed over the past 20 years, and the economic drivers of tropical deforestation around the world. It describes recent intergovernmental efforts to reduce deforestation, both through a proposed UNFCCC REDD+ mechanism and through interim finance or 'Fast Start' partnerships that seek to achieve results between now and 2020. There has never been a better opportunity to forge international cooperation on this important environmental issue, but progress so far has been slow.

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**Introduction: Crack Distribution and Durability of SHCC**

Gideon P. A. G. van Zijl , William P. Boshoff, Christian Wagner, Volker Slowik

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**Abstract**

Inherent crack control to fine widths in strain-hardening cement-based composites (SHCC) suggests that structural elements produced from SHCC or steel-reinforced SHCC (R/SHCC) may be rendered durable by limiting the ingress rates of potentially deleterious substances. Recently, it has been reported that, while the average crack width in SHCC is maintained up to large tensile strains in excess of 3%, the maximum crack width may equal or exceed those are considered to be limiting in terms of durability. Also, the typical range in SHCC average crack width, from 50 to 100 μm, has been shown to be a threshold in water permeability, at which width permeability is restricted to several orders lower than that expected for crack widths ranging from 0.2 to 0.3 mm — a typical reinforced concrete crack width limit in durability standards. However, it has recently been shown that capillary absorption in dry, pre-cracked SHCC is a quick process, with water penetrating into fine cracks within minutes of exposure. In addition to describing these findings, this chapter sets the scene for later chapters on improved ingress rate characterisation and the actual deterioration of cracked SHCC or R/SHCC. Guidelines for the pre-cracking of SHCC towards durability testing are derived, based on the results of recent comparative testing. These include the specimen shape, size, test set-up, crack measurement to sufficient resolution, and crack width distribution presentation. Finally, the field performance of repairs, structures and structural elements produced from SHCC and R/SHCC in the past decade is reported.

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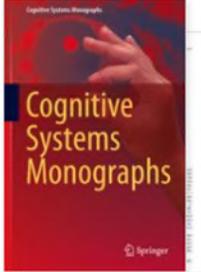
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## Decellularization Methods for Scaffold Fabrication

Sweta K. Gupta, Narayan C. Mishra 

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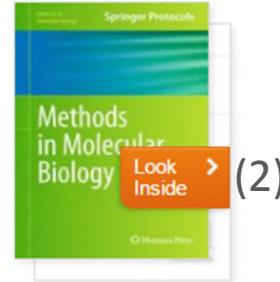


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Decellularization is the process of removal of native cells from tissue, leaving behind a three-dimensional (3D) ultrastructure of extracellular matrix (ECM) proteins while preserving the bioactivity and mechanics of the tissue. It offers a unique top-down approach for fabricating ECM based natural scaffold for tissue engineering application. Herein, this chapter presents the fabrication of decellularized scaffold employing different methods: whole organ perfusion, immersion and agitation, pressure gradient, and supercritical fluid. The decellularized scaffold aims to exploit the nature-designed 3D architecture, a successful platform technology, for creating scaffolding materials for tissue engineering and regenerative medicine.

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