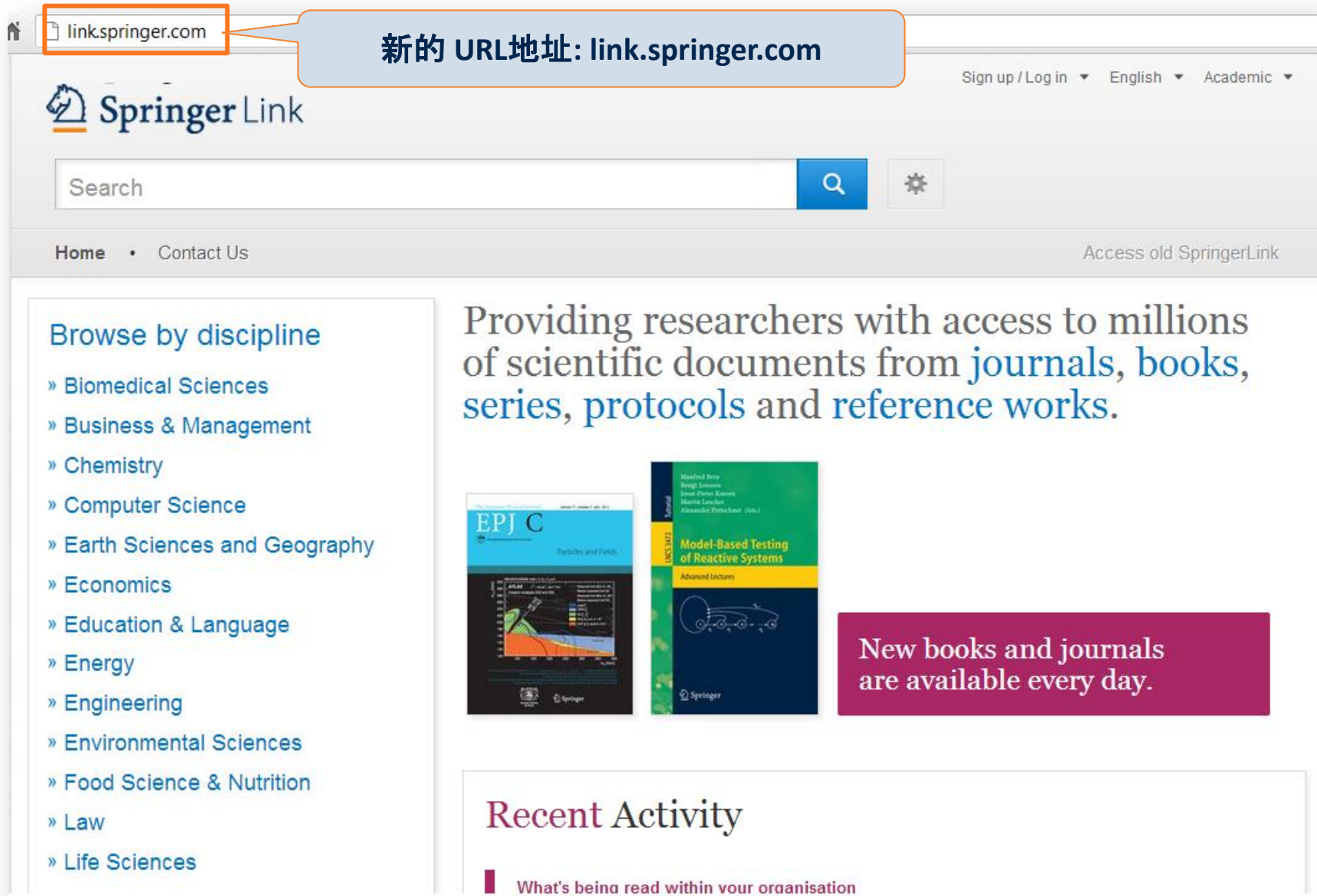




SpringerLink新平台

2014年03月



The screenshot shows the new SpringerLink platform interface. A callout box highlights the URL `link.springer.com` in the browser's address bar, with the text "新的 URL地址: link.springer.com". The page features a search bar, navigation links for "Home" and "Contact Us", and a "Sign up / Log in" button. The main content area is divided into a left sidebar with "Browse by discipline" and a main section with a headline "Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works." Below the headline are two book covers: "EPJ C Particles and Fields" and "Model-Based Testing of Reactive Systems". A purple box states "New books and journals are available every day." At the bottom, there is a "Recent Activity" section with the heading "What's being read within your organisation".

link.springer.com

新的 URL地址: link.springer.com

Sign up / Log in English Academic

Springer Link

Search

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Browse by discipline

- » Biomedical Sciences
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EPJ C Particles and Fields

Model-Based Testing of Reactive Systems Advanced Lectures

New books and journals are available every day.

Recent Activity

What's being read within your organisation

新平台速度更快



Avg. Page Load Time (sec)	Pageviews	Page Load Sample	Bounce Rate
10.04 Site Avg: 10.04 (0.00%)	51,261,199 % of Total: 100.00% (51,261,199)	275,878 % of Total: 100.00% (275,878)	61.38% Site Avg: 61.38% (0.00%)

页面平均下载时间



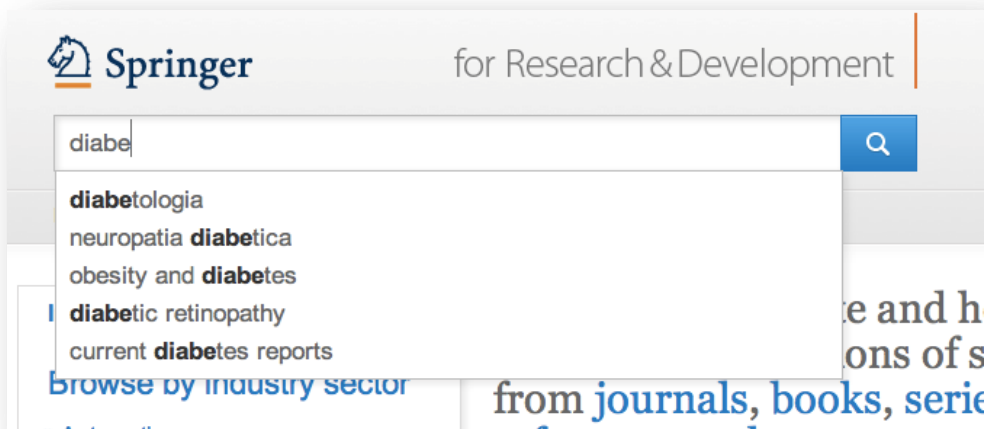
Brian Bishop ▾ English ▾ Academic ▾

Avg. Page Load Time (sec)	Pageviews	Page Load Sample	Bounce Rate
5.15 Site Avg: 5.15 (0.00%)	309,919 % of Total: 100.00% (309,919)	1,653 % of Total: 100.00% (1,653)	58.90% Site Avg: 58.90% (0.00%)

页面平均下载时间


新平台添加了更多新功能:

搜索自动建议功能（以Google关键字数据为准）



每个文件可以预览
两页（不
仅限于浏览图书
章节）

显示所有查询结果

 **Include preview-only content**

756 Result(s) for 'biorefinery'

更多新功能:

直接链接到HTML部分

Within this Article:

- » [Introduction](#)
- » [Patients and methods](#)
- » [Results](#)
- » [Discussion](#)
- » [References](#)



Results

Patient characteristics

Between 11/04/2003 and 12/13/2004, seven patients were seen in this initial cohort. Table 1 summarizes the baseline characteristics.

Table 1 Baseline demographics and clinical characteristics

Baseline characteristics
Patients evaluable/enrolled
Gender: Female %

改进后的 HTML

European Biophysics Journal with Biophysics Letters
© The Author(s) 2012
10.1007/s00249-012-0820-x

Review

Validation of macro

Michal Hammel¹ ✉

(1) Lawrence Berkeley National Laboratory,

✉ Michal Hammel
Email: mhammel@lbl.gov

Received: 4 March 2012 Revised: 22 April 2012

Abstract

The dynamics of macromolecular conformations are critical to the action of cellular dynamic molecular machines. This review combines solution-scattering data with high-resolution structures. This review addresses theoretical and practical concepts, concerns, and considerations 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 conformations from SAXS data followed by critical concerns about the methods used to calculate macromolecular conformations from high-resolution structures. The SAXS profile is a direct interrogation of the macromolecular conformation and techniques such as, for example, minimal ensemble search (MES), enhance computational techniques used for conformational sampling detail, the knowledge gained from ensemble X-ray crystallography, NMR, and computational techniques used for conformational sampling detail.

Keywords Small-angle X-ray scattering (SAXS)

Special Issue: Scattering techniques in biology

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European Biophysics Journal
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10.1007/s00249-012-0820-x

Review

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

Michal Hammel¹ ✉

(1) Lawrence Berkeley National Laboratory, Physical Biosciences Division, Berkeley, CA, USA

✉ Michal Hammel
Email: mhammel@lbl.gov

Received: 4 March 2012

Revised: 22 April 2012

Accepted: 5 May 2012

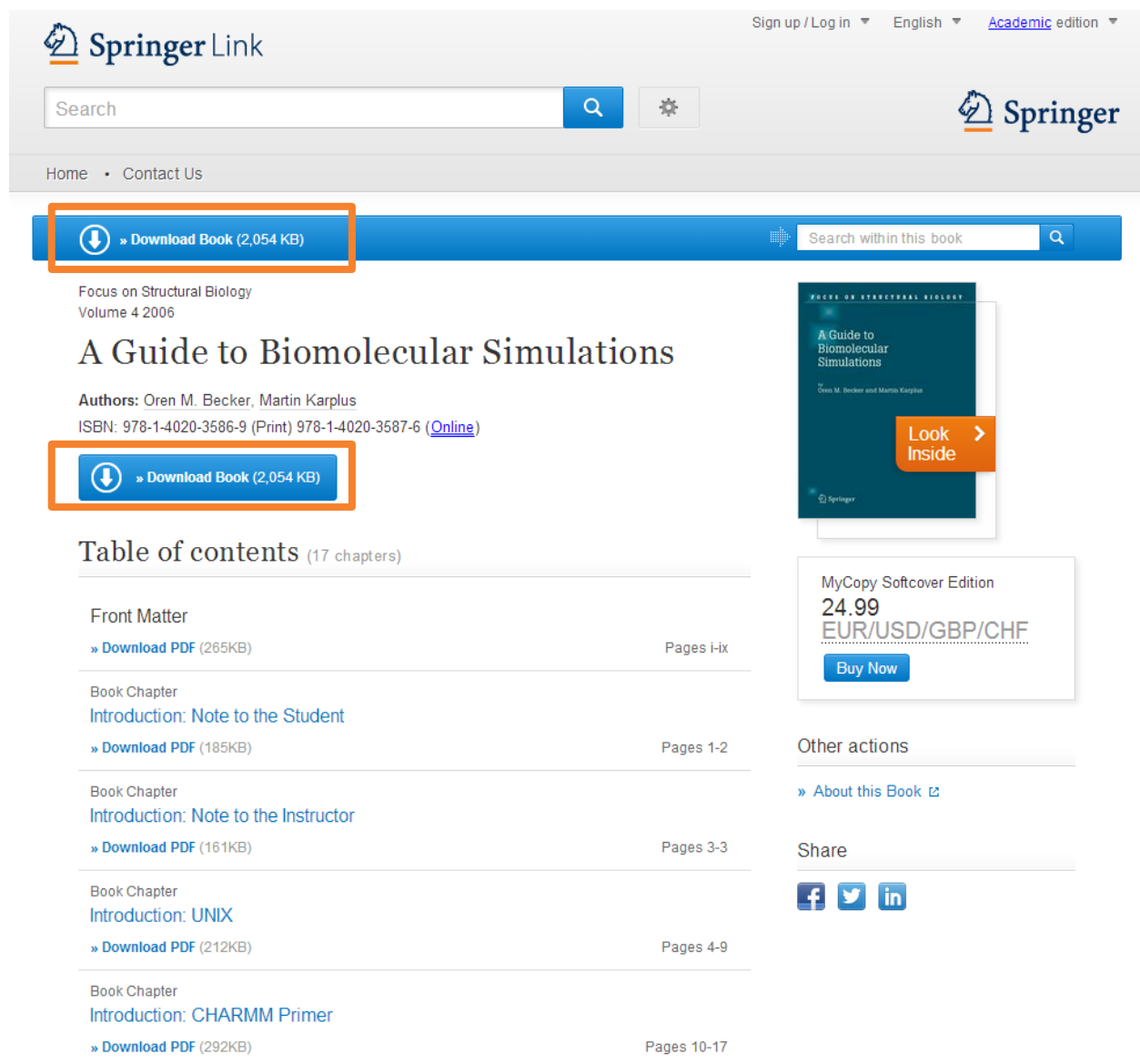
Published online: 26 May 2012

Abstract

The dynamics of macromolecular conformations are critical to the action of cellular dynamic molecular machines. This review combines solution-scattering data with high-resolution structures. This review addresses theoretical and practical concepts, concerns, and considerations 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 conformations from SAXS data followed by critical concerns about the methods used to calculate macromolecular conformations from high-resolution structures. The SAXS profile is a direct interrogation of the macromolecular conformation and techniques such as, for example, minimal ensemble search (MES), enhance computational techniques used for conformational sampling detail, the knowledge gained from ensemble X-ray crystallography, NMR, and computational techniques used for conformational sampling detail.

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Focus on Structural Biology
Volume 4 2006

A Guide to Biomolecular Simulations

Authors: Oren M. Becker, Martin Karplus
ISBN: 978-1-4020-3586-9 (Print) 978-1-4020-3587-6 ([Online](#))

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Sort By: Relevance | Date Published

Page 1 of 5,844

Refine Your Search

Content Type	
Article	63,136
Chapter	51,115
Reference Work Entry	2,360
Book	245
Protocol	4
Journal	3
Reference Work	1

Discipline	
Astronomy	42,599
Physics	30,918
Earth Sciences & Geography	26,422
Engineering	15,233
Chemistry	11,861

Subdiscipline	
Astronomy, Observations and Techniques	21,775
Astrophysics and Astroparticles	19,283

Journal
Solar Physics
Volume 1 / 1967 - Volume 289 / 2014

Book
Progress in Solar Physics
Review Papers Invited to Celebrate the Centennial Volume of Solar Physics
C. De Jager, Z. Švestka (1986)

9,448 Result(s) for 'solar physics' on SpringerImages

Comparison of various parameters...

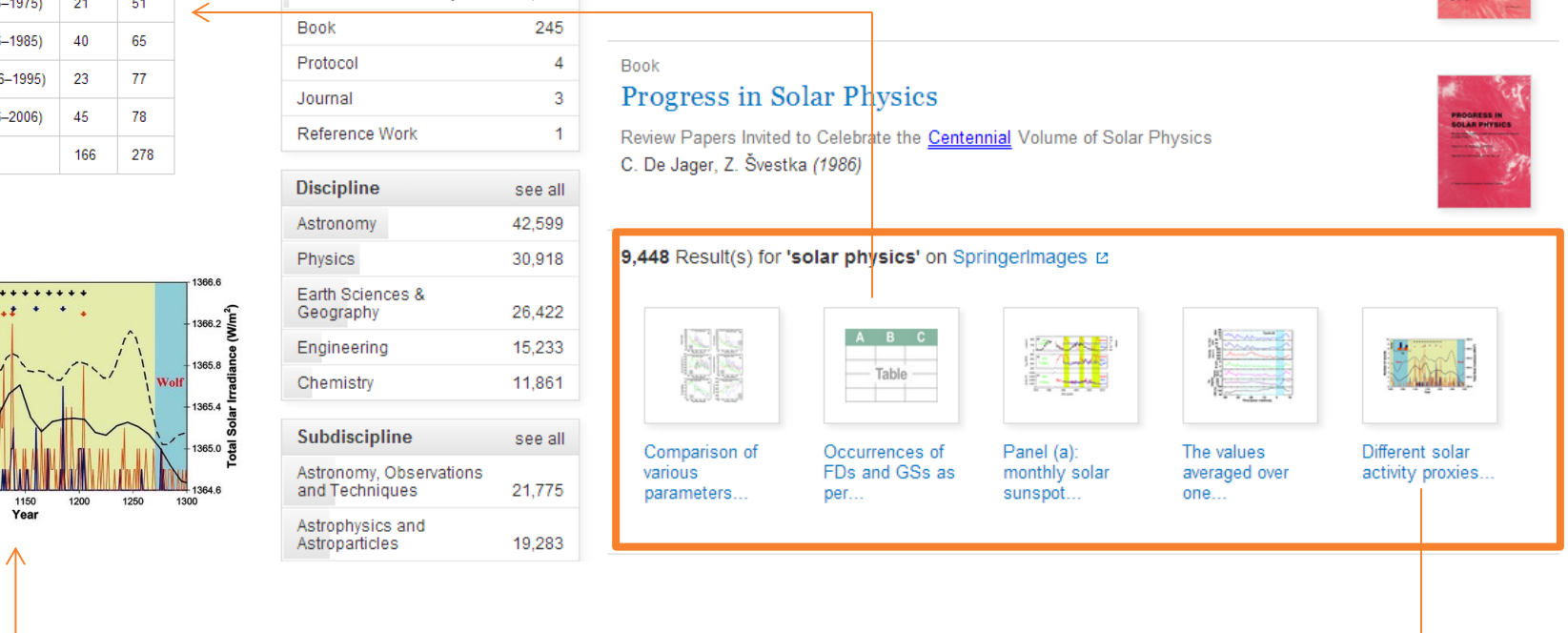
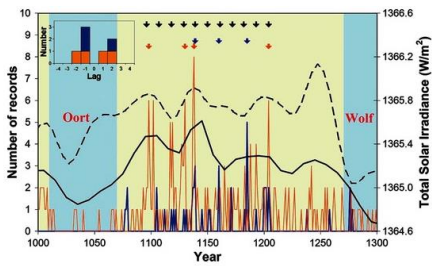
Occurrences of FDs and GSs as per...

Panel (a): monthly solar sunspot...

The values averaged over one...

Different solar activity proxies...

S. No.	Solar cycle	No. of events	
		FDs	GS
1	19th (1954–1964)	37	06
2	20th (1965–1975)	21	51
3	21st (1976–1985)	40	65
4	22nd (1986–1995)	23	77
5	23rd (1996–2006)	45	78
	Total	166	278



更多新功能：

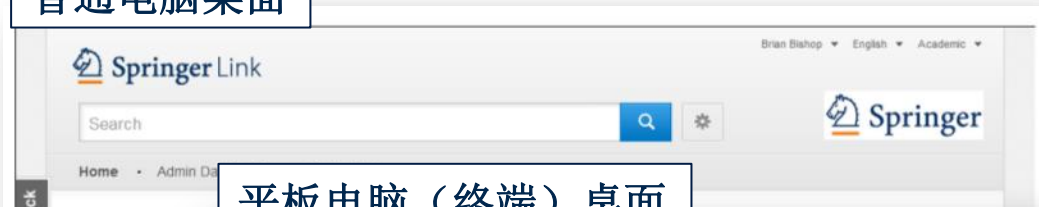
- 提供COUNTER R4形式的使用情况报告
- 提供SUSHI协议标准

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平板电脑（终端）桌面



手机-横版桌面



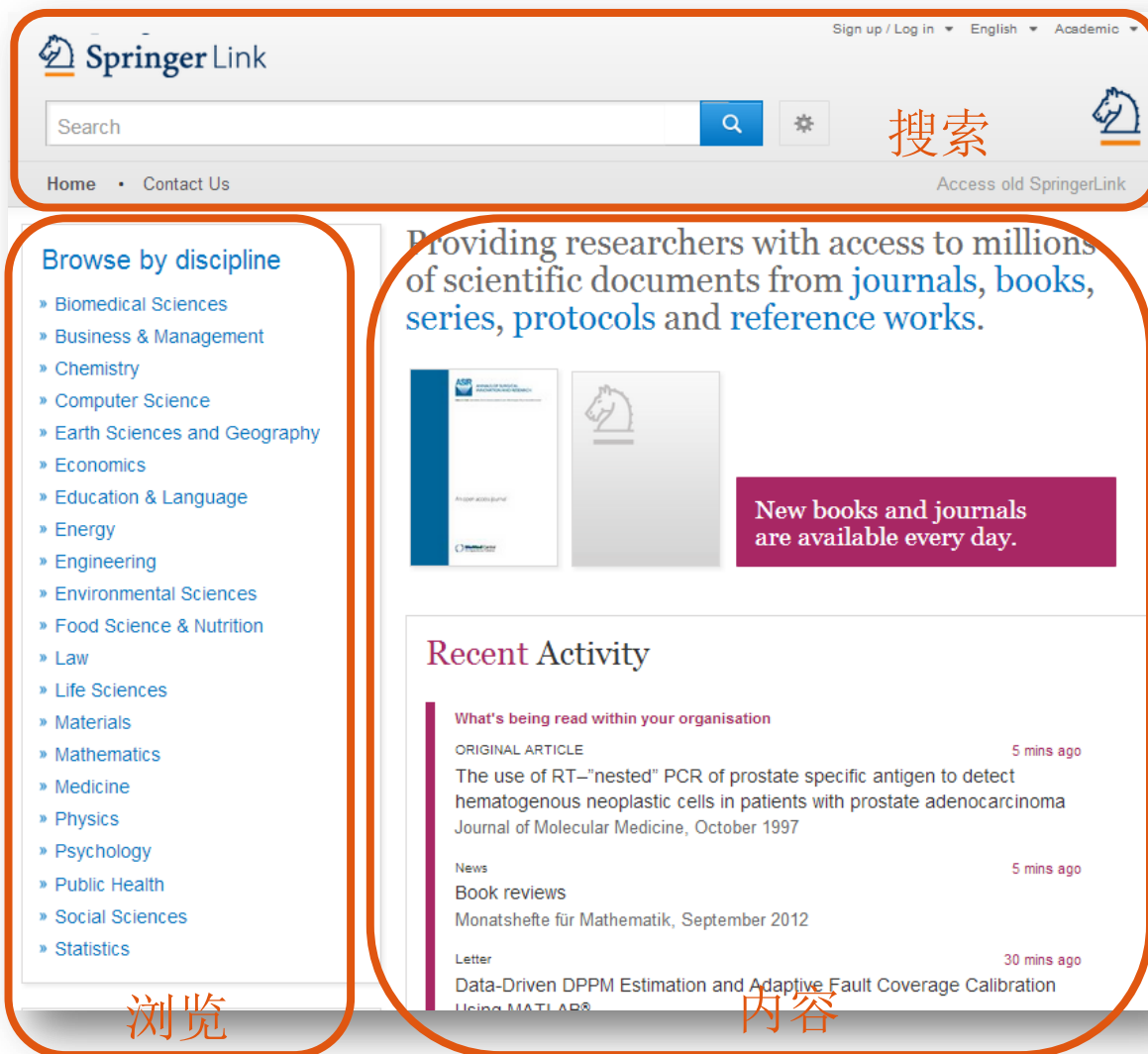
手机-竖版桌面



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- 3个部分:搜索 - 浏览 - 内容
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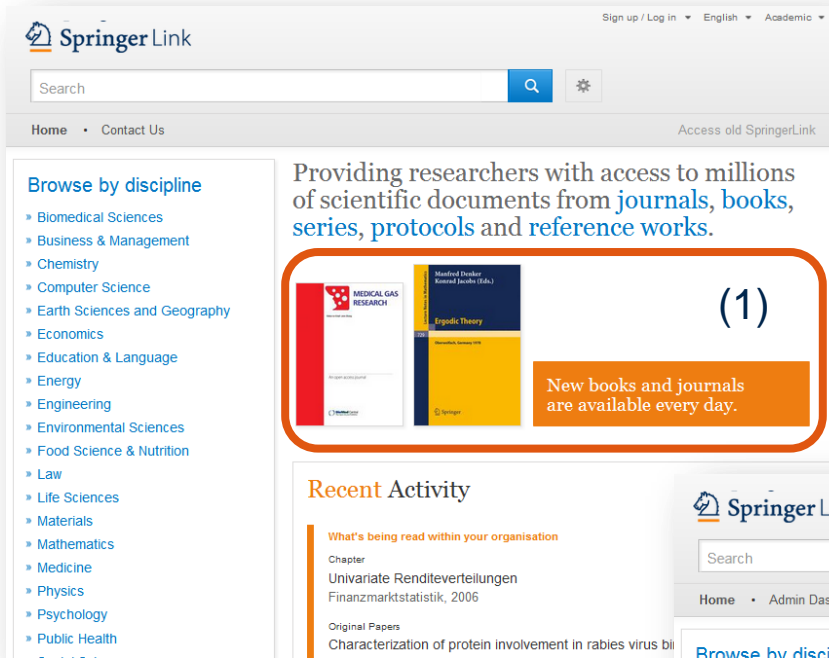
What's being read within your organisation

- ORIGINAL ARTICLE** 5 mins ago
The use of RT-“nested” PCR of prostate specific antigen to detect hematogenous neoplastic cells in patients with prostate adenocarcinoma
Journal of Molecular Medicine, October 1997
- News** 5 mins ago
Book reviews
Monatshefte für Mathematik, September 2012
- Letter** 30 mins ago
Data-Driven DPPM Estimation and Adaptive Fault Coverage Calibration Using MATLAB®

主页分成三个部分：

- 搜索功能
- 浏览功能
- 根据您的个人资料提供的相关内容

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- Finanzmarktstatistik, 2006

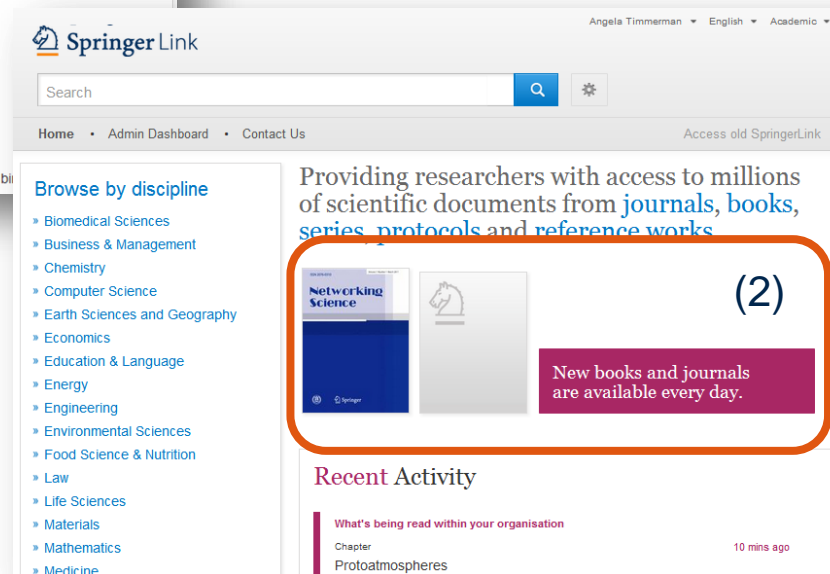
Original Papers

- Characterization of protein involvement in rabies virus di...

内容区域

在内容区域内会按颜色识别客户类别:

1. 橙色代表匿名用户
2. 粉色代表可识别客户



Springer Link

Search

Home • Admin Dashboard • Contact Us

Angela Timmerman English Academic

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Browse by discipline

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- » Education & Language
- » Energy
- » Engineering
- » Environmental Sciences
- » Food Science & Nutrition
- » Law
- » Life Sciences
- » Materials
- » Mathematics
- » Medicine

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

(2)

New books and journals are available every day.

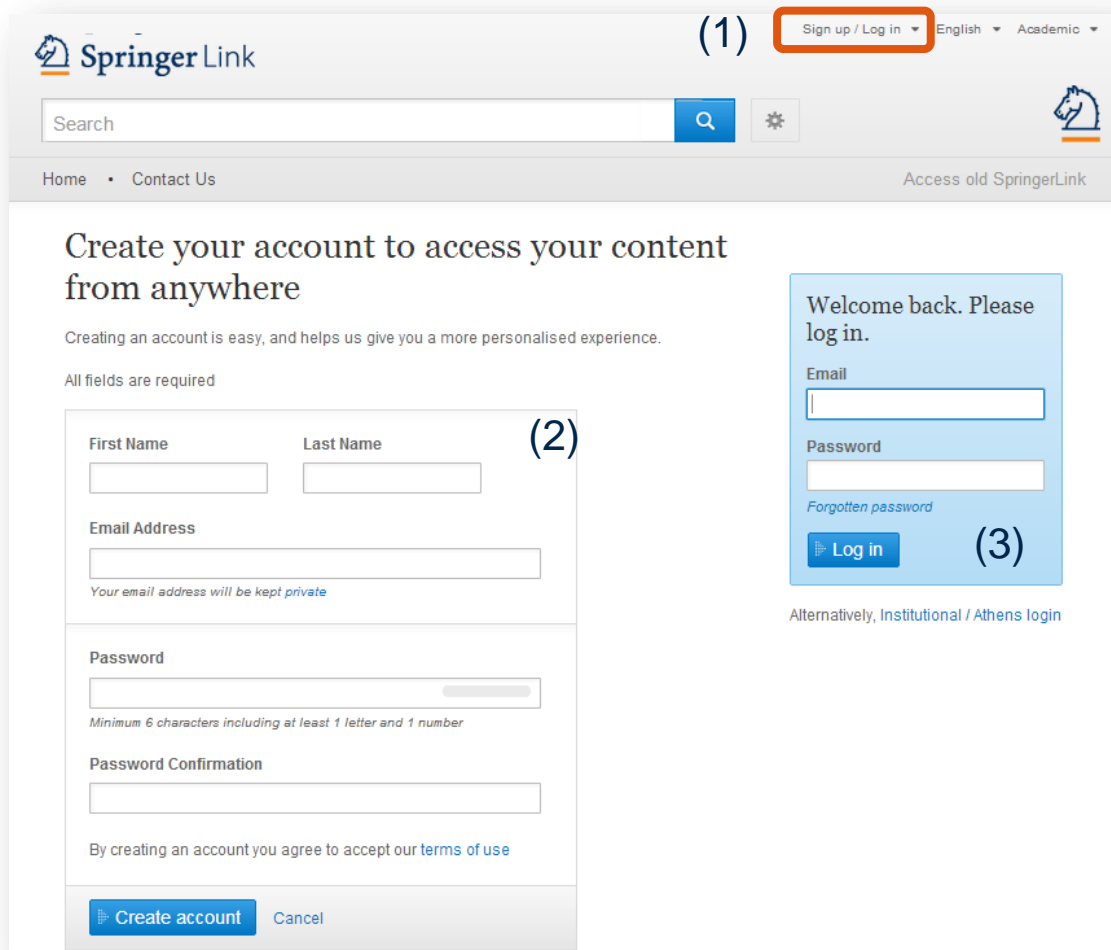
Recent Activity

What's being read within your organisation

- Chapter
- Protoatmospheres

10 mins ago

主页：可识别用户 VS 匿名用户



The screenshot shows the SpringerLink homepage. At the top right, there is a "Sign up / Log in" button highlighted with a red box and labeled (1). Below the search bar, there are links for "Home" and "Contact Us". The main content area is titled "Create your account to access your content from anywhere". It includes a registration form with fields for "First Name", "Last Name", "Email Address", "Password", and "Password Confirmation". A "Create account" button is at the bottom left. On the right side, there is a "Welcome back. Please log in." box with "Email" and "Password" fields, a "Log in" button labeled (3), and a "Forgotten password" link. Below the login box, there is a link for "Alternatively, Institutional / Athens login".

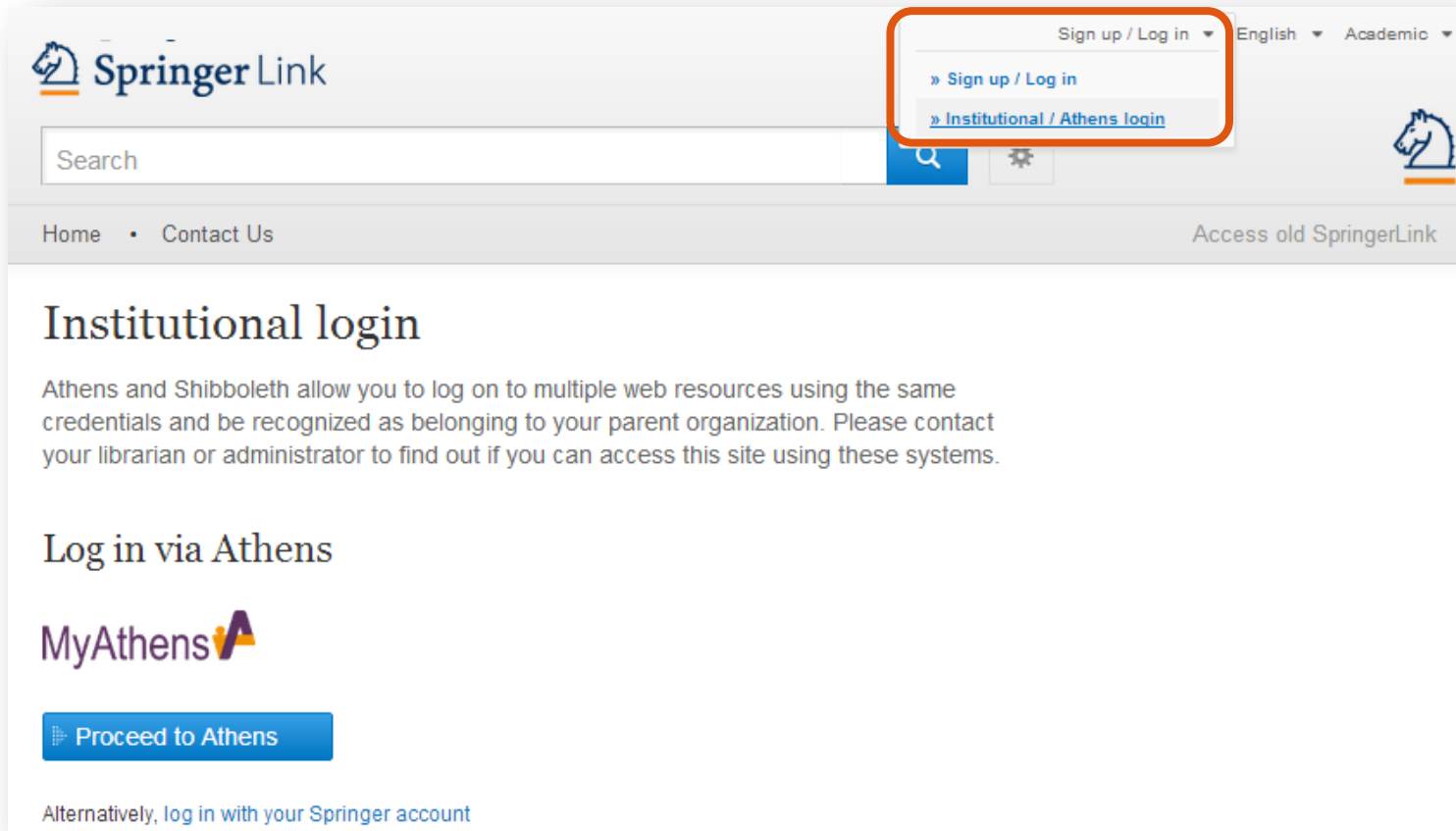
识别功能

当某用户在可识别的IP范围内登入 <http://link.springer.com> 时，该用户将自动识别为该机构的一部分

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2. 注册并建立账户（Sign up to create an account）
3. 或者在任何地点登入到您的收藏页面

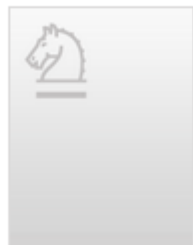
机构/ Athens 登录



The screenshot shows the SpringerLink website interface. At the top left is the SpringerLink logo. To its right is a search bar with the text "Search". In the top right corner, there is a navigation menu with "Sign up / Log in", "English", and "Academic". A red box highlights the "Sign up / Log in" dropdown menu, which contains two options: "» Sign up / Log in" and "» Institutional / Athens login". Below the search bar is a navigation bar with "Home" and "Contact Us" on the left, and "Access old SpringerLink" on the right. The main content area features the heading "Institutional login" followed by a paragraph: "Athens and Shibboleth allow you to log on to multiple web resources using the same credentials and be recognized as belonging to your parent organization. Please contact your librarian or administrator to find out if you can access this site using these systems." Below this is the heading "Log in via Athens" and the MyAthens logo. A blue button labeled "Proceed to Athens" is positioned below the logo. At the bottom, there is a link: "Alternatively, log in with your Springer account".

主页- 匿名用户

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OriginalPaper 1 min ago

Development of a Mesoamerican intra-genepool genetic map for quantitative trait loci detection in a drought tolerant × susceptible common bean (*Phaseolus vulgaris* L.) cross
Molecular Breeding, January 2012

BookMatter 1 min ago

Developing International Strategies, 2012

OriginalPaper 1 min ago

The Relation of Story Structure Properties to Recall of Television Stories in Young Children with Attention-Deficit Hyperactivity Disorder and Nonreferred Peers
Journal of Abnormal Child Psychology, August 1999

匿名用户:

如果您匿名登录，“活动” (Activity) 将显示为橙色

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主页 - 可识别的机构用户

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ORIGINAL ARTICLE 5 mins ago

Degradation activity of *Clostridium* species DC-1 in the *cis*-1,2-dichloroethylene contaminated site in the presence of indigenous microorganisms and *Escherichia coli*
Journal of Material Cycles and Waste Management, September 2012

OriginalPaper 5 mins ago

On the origin of *Solanum nigrum*: can networks help?
Molecular Biology Reports, February 2011

Original Article—Alimentary Tract 5 mins ago

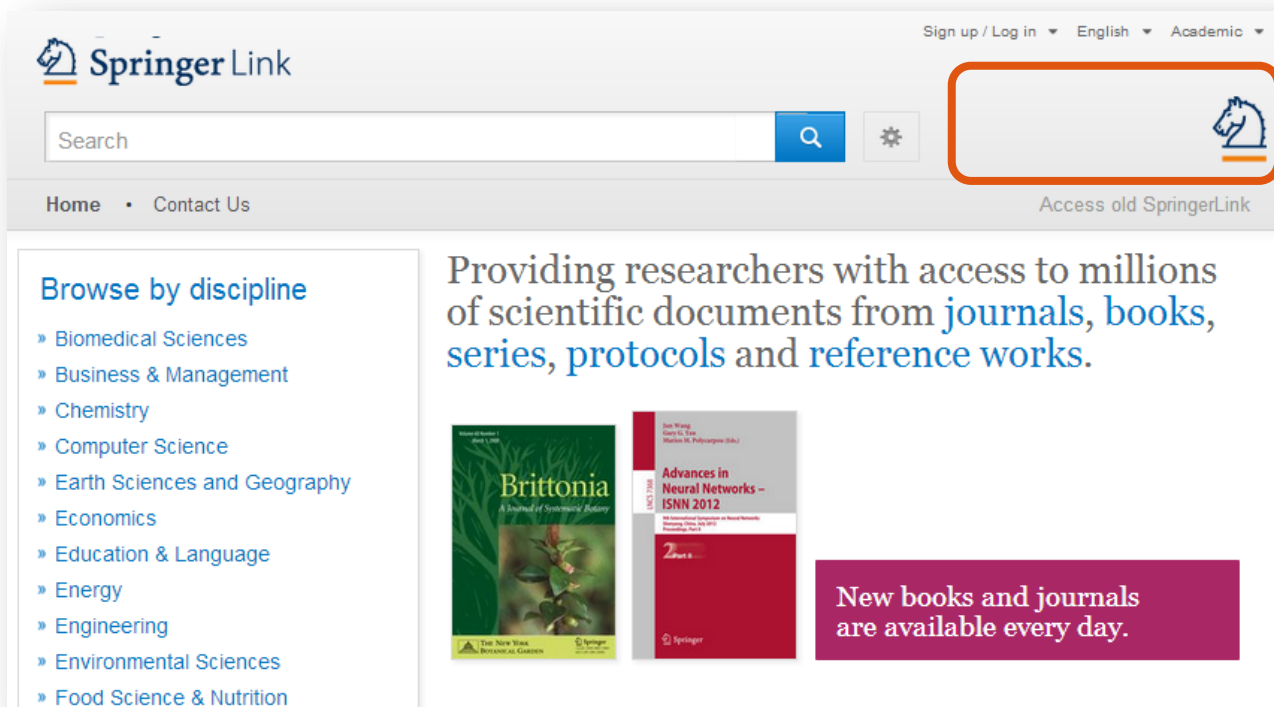
Amelioration of 2,4,6-trinitrobenzene sulfonic acid-induced colitis in mice by immunoregulatory dendritic cells
Journal of Gastroenterology, December 2011

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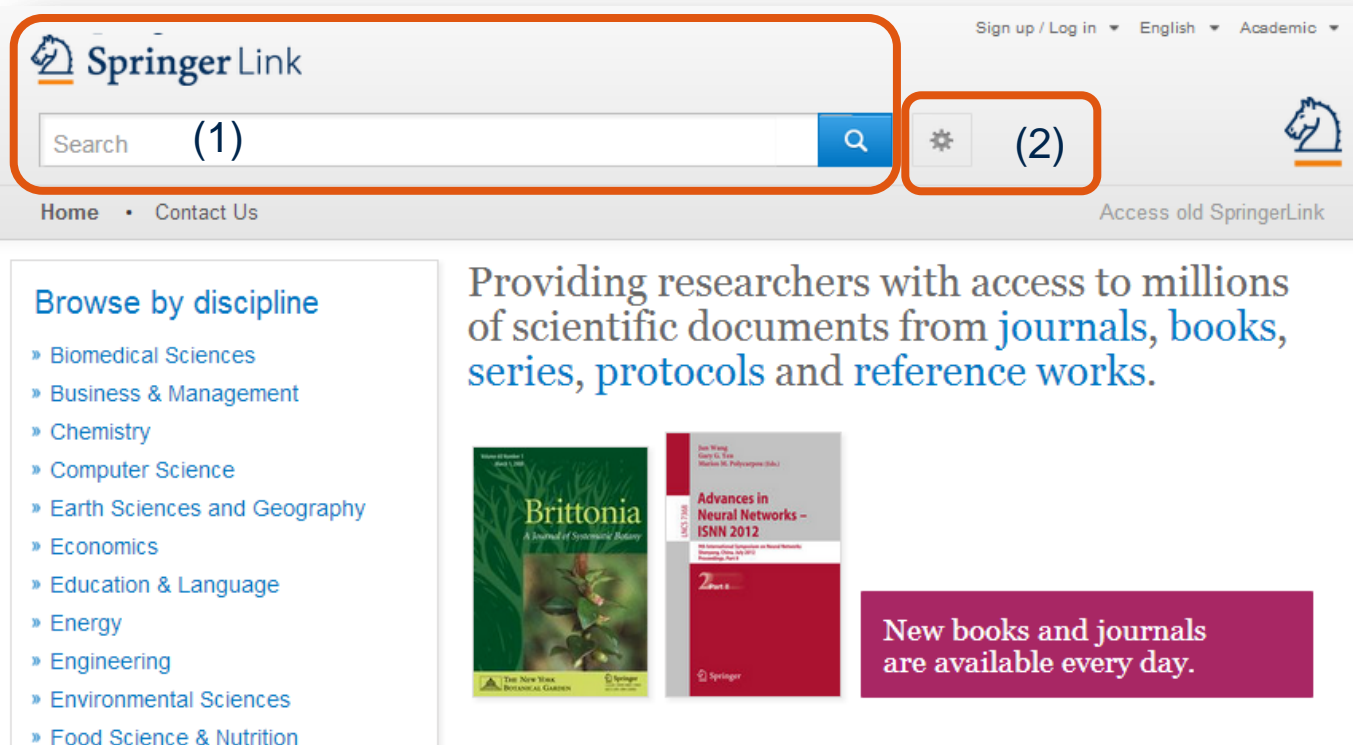


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SpringerLink数据库管理员可以进行此操作

搜索

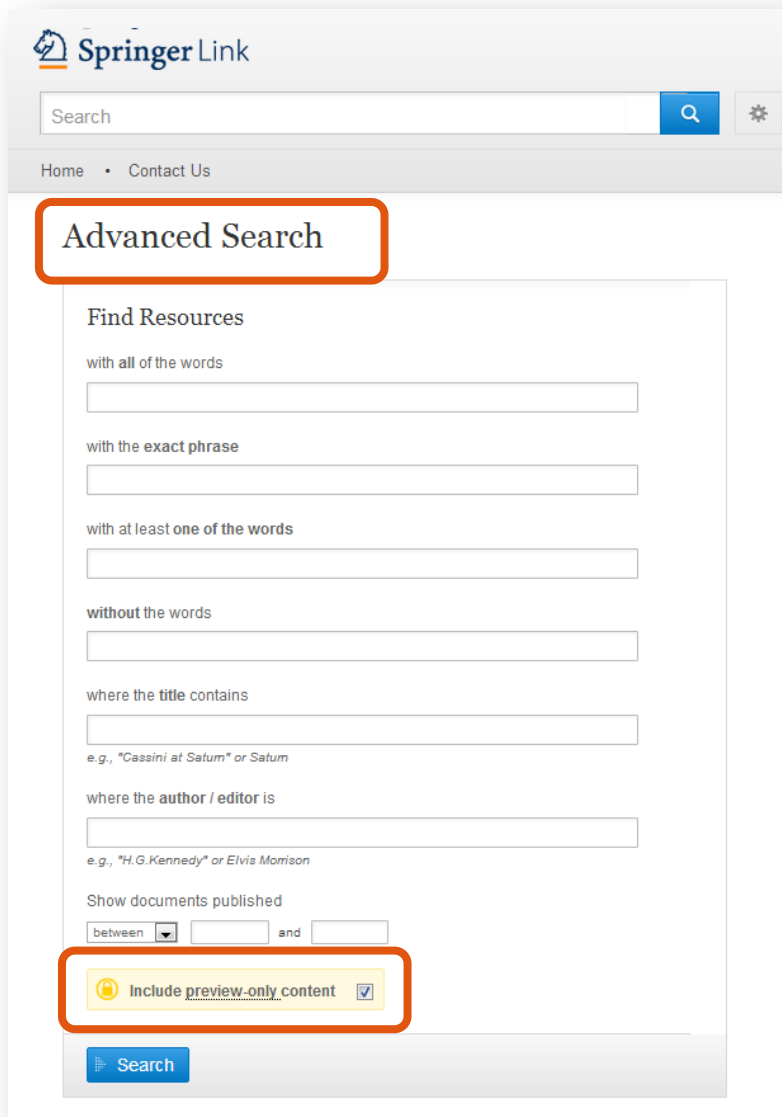


The screenshot shows the SpringerLink homepage. At the top left, the SpringerLink logo is enclosed in an orange box labeled (1). To its right, the search bar contains the text "Search" and a magnifying glass icon. Further right, a settings gear icon is enclosed in an orange box labeled (2). The top right corner features navigation links: "Sign up / Log in", "English", and "Academic". Below the navigation bar, there are links for "Home" and "Contact Us" on the left, and "Access old SpringerLink" on the right. The main content area 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: "Brittonia: A Journal of Systematic Botany" and "Advances in Neural Networks - ISNN 2012". A purple box at the bottom right of the main content area contains the text: "New books and journals are available every day."

搜索:

1. 大多数用户通过搜索功能浏览我们的内容，因此在主页上搜索功能是最明显和最突出的
2. 同时主页还提供高级搜索和搜索帮助

高级搜索选项



The screenshot shows the SpringerLink Advanced Search page. At the top, there is a search bar with a magnifying glass icon and a gear icon for settings. Below the search bar are navigation links for "Home" and "Contact Us". The main section is titled "Advanced Search" and contains several search criteria sections, each with a text input field:

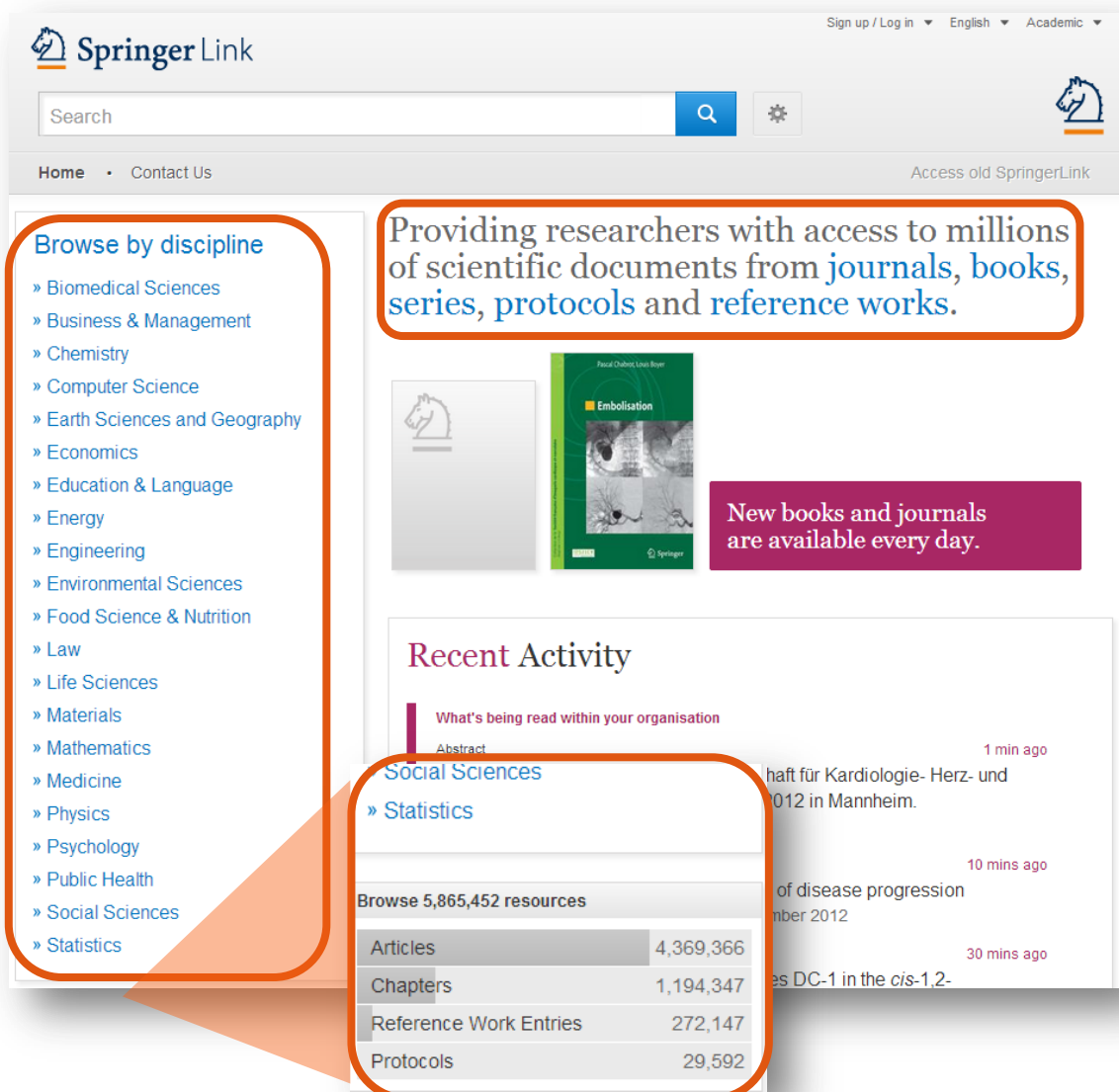
- Find Resources**
 - with all of the words
 - with the exact phrase
 - with at least one of the words
 - without the words
 - where the title contains (with example: "Cassini at Saturn" or Saturn)
 - where the author / editor is (with example: "H. G. Kennedy" or Elvis Morrison)
- Show documents published between [] and []
- Include preview-only content

At the bottom, there is a blue "Search" button.

用户可以通过使用高级搜索选项进一步缩小搜索范围

用户也可以限定在该机构的访问权限内搜索

浏览



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- » Public Health
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Abstract

Social Sciences

» Statistics

Browse 5,865,452 resources

Articles	4,369,366
Chapters	1,194,347
Reference Work Entries	272,147
Protocols	29,592

浏览:

在页面左方的框中，浏览功能按学科分类

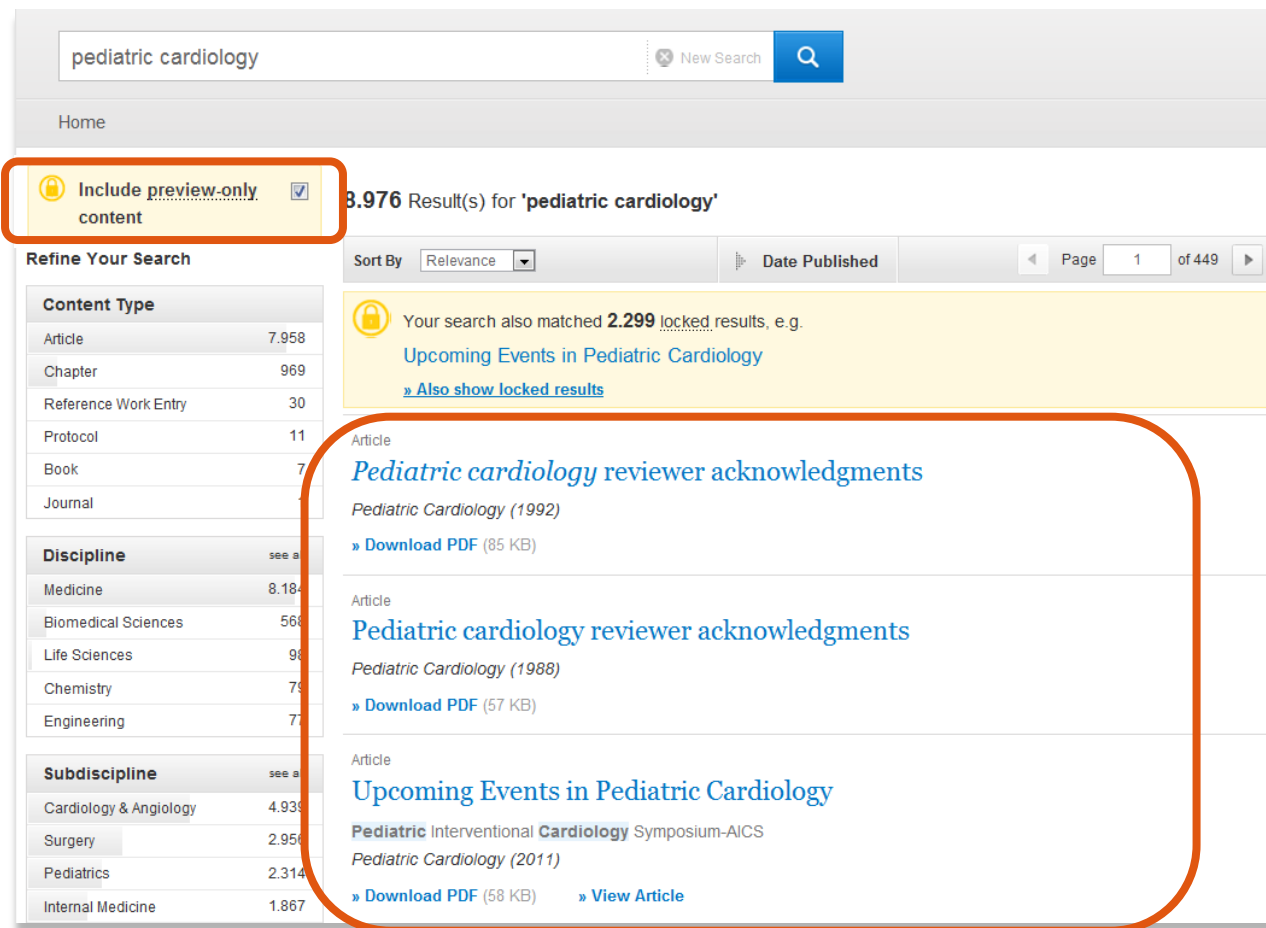
如果您点击某个学科，您将会进入到该学科的新页面

您也可以按内容的类型来浏览

在学科导航框的下方，您可以找到详细的内容类型：

- (期刊) 文章
- 参考文献
- (图书) 章节
- 实验室指南

搜索结果页面



The screenshot shows the Springer search results page for the query "pediatric cardiology". The search bar at the top contains the text "pediatric cardiology" and a "New Search" button. Below the search bar, there is a "Home" link and a "Refine Your Search" section. In the "Refine Your Search" section, the "Include preview-only content" checkbox is checked and highlighted with an orange box. The search results are displayed in a list format, showing the number of results (3,976) and a page number (1 of 449). The results are sorted by Relevance. The first result is "Pediatric cardiology reviewer acknowledgments" from Pediatric Cardiology (1992), with a "Download PDF (85 KB)" link. The second result is "Pediatric cardiology reviewer acknowledgments" from Pediatric Cardiology (1988), with a "Download PDF (57 KB)" link. The third result is "Upcoming Events in Pediatric Cardiology" from Pediatric Cardiology (2011), with "Download PDF (58 KB)" and "View Article" links. A yellow banner above the results indicates that the search also matched 2,299 locked results, with a link to "Also show locked results".

搜索结果:

您可以在页面右下角找到搜索结果列表

在默认情况下, 将显示所有的搜索结果

如果您只想看到权限范围内的搜索结果, 取消黄色框上的勾选

搜索结果页面

Article (1)
DOE Bioenergy Center Special Issue: The Great Lakes Bioenergy Research Center (GLBRC) (2)
 This issue of **BioEnergy Research**...is the second of three special issues to feature work from the US Department of Energy **Bioenergy** Centers. This special issue is focused on **research** supported by the Great Lakes (3)
 Michael D. Casler in *BioEnergy Research* (2010) (5)
 » [Download PDF](#) (60 KB) » [View Article](#) (6)

Article
The DOE BioEnergy Science Center—a U.S. Department of Energy Bioenergy Research Center
 The **BioEnergy** Science Center, a nationally and internationally peer ... as a U.S. Department of Energy **Bioenergy Research** Center. This Oak Ridge National Laboratory-led ... for its significant contributions in th... Russ Miller, Martin Keller in *In Vitro Cellular & Developmental Biology - Plant* (2009)
 » [Download PDF](#) (308 KB) » [View Article](#)

Article
The US Department of Energy Great Lakes Bioenergy Research Center: Midwestern Biomass as a Resource for Renewable Fuels
 The Great Lakes **Bioenergy Research** Center is one of three **Bioenergy Research** Centers establish by the US Department of ... of liquid fuels derived from biomass. The **research** is focused on converting plant biomass...
 Steven Slater, Kenneth Keegstra, Timothy J. Donohue in *BioEnergy Research* (2010)
 » [Download PDF](#) (87 KB) » [View Article](#)

搜索结果页面的列表结构:

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3. 内容描述
4. 所列内容的作者
5. 在何处以何种产品形式出版
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搜索结果页面

Chapter (1)

MRSA in der Phlebologie

Chronische Ulzera mit den Problemen der Superinfektion sind in der Phlebologie ein altbekanntes und hinreichend gewürdigtes Problem. Mit der zunehmenden Verbreitung multiresistenter Keime hat dieses Problem...

Dr. med. H. Nüllen, Dr. med. U. Kamphausen... in *Diagnostik und Therapie der Varikose* (2010)

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Article

Appearance of Methicillin-Resistant *Staphylococcus Aureus* (MRSA) Sensitive to Gentamicin in a Hospital with a Previous Endemic Distinct MRSA

Fei Gao, David Machin in *European Journal of Epidemiology* (2004)

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Chapter

Community-Acquired MRSA (CA-MRSA)

Lexikon der Infektionskrankheiten des Menschen (2009)

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Methicillin-Resistant *Staphylococcus aureus* (MRSA) Protocols

Yinduo Ji in *Methods in Molecular Biology* (2007)



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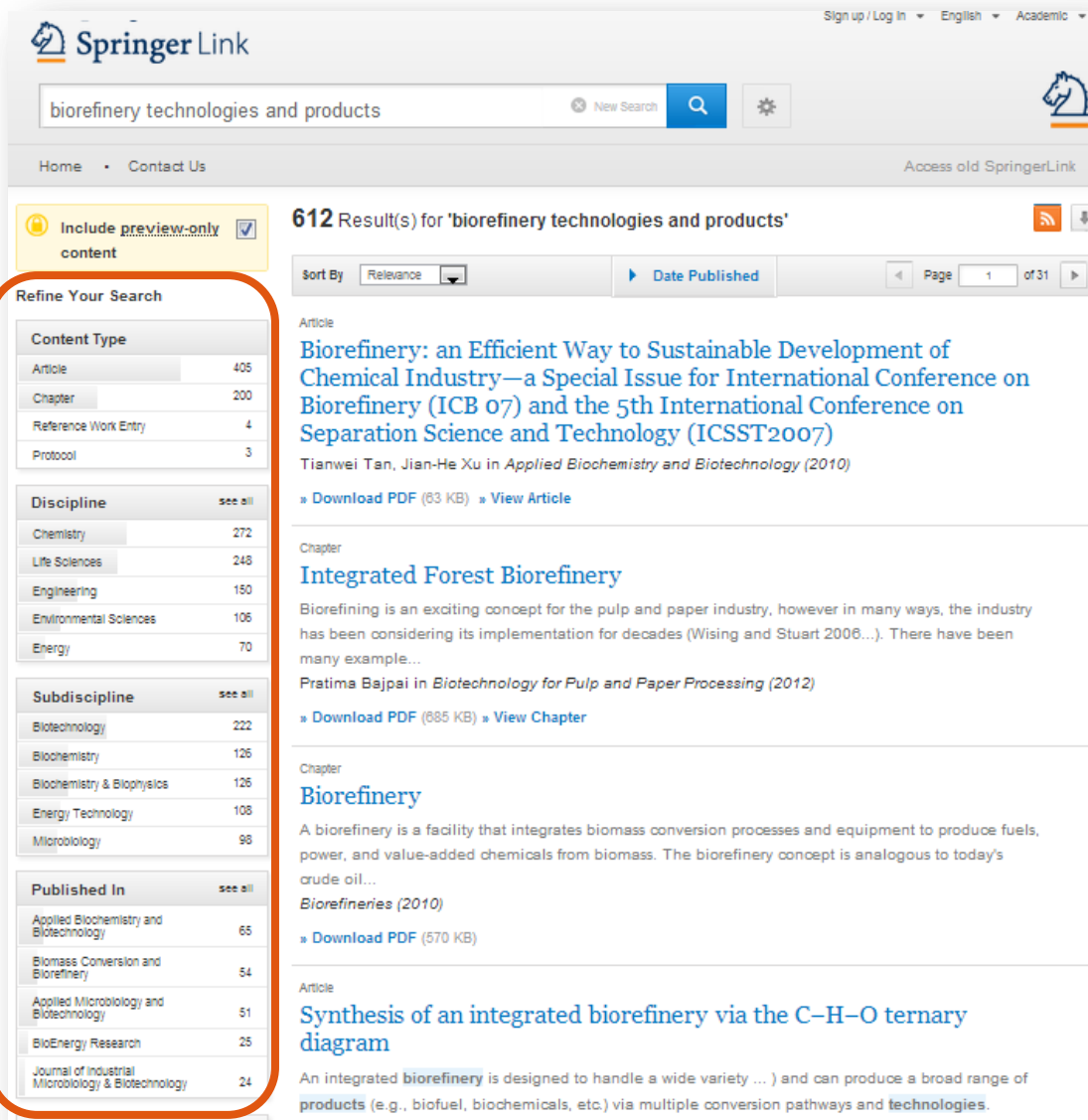
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Biorefinery: an Efficient Way to Sustainable Development of Chemical Industry—a Special Issue for International Conference on Biorefinery (ICB 07) and the 5th International Conference on Separation Science and Technology (ICSST2007)

Tianwei Tan, Jian-He Xu in *Applied Biochemistry and Biotechnology* (2010)

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Integrated Forest Biorefinery

Biorefining is an exciting concept for the pulp and paper industry, however in many ways, the industry has been considering its implementation for decades (Wising and Stuart 2006...). There have been many example...

Pratima Bajpai in *Biotechnology for Pulp and Paper Processing* (2012)

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Biorefineries (2010)

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Synthesis of an integrated biorefinery via the C–H–O ternary diagram

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Un quart des Européens aura plus de 65 ans d'ici 2030, et dans ce segment l'incidence des cancers augmente à 11 fois celle du sujet plus jeune. Pour mieux évaluer ces personnes sur le plan social et médical,...

M. Aapro in *Cancer du sein* (2007)

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European Society of Gynaecological Oncology (ESGO)

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K. Münstedt in *Der Gynäkologe* (2002)

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dr. E.E. Stobberingh in *Vademecum permanente nascholing huisartsen (2006)*

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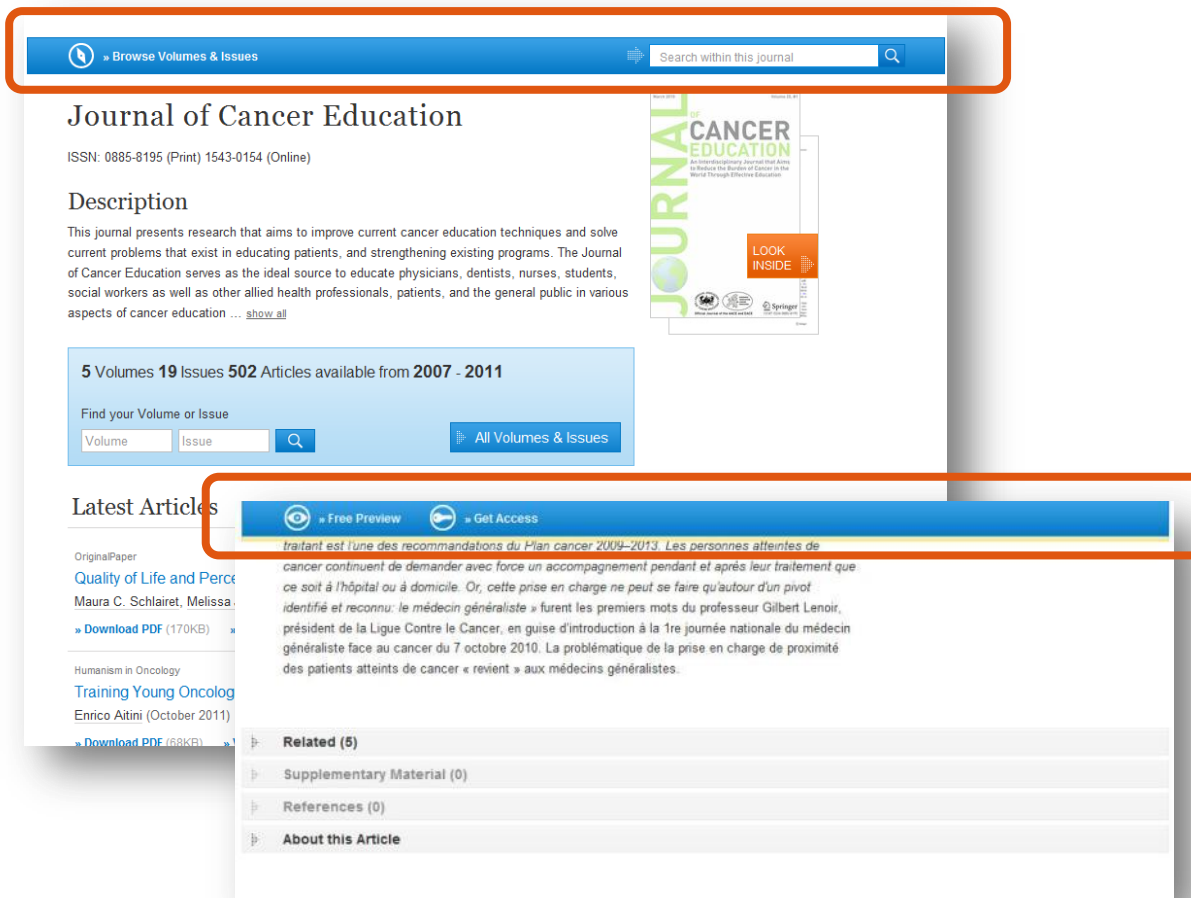
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The screenshot shows the SpringerLink product page for the 'Journal of Cancer Education'. Two blue bars are highlighted with orange boxes:

- Top Bar:** A blue navigation bar containing a home icon, the text 'Browse Volumes & Issues', a search input field with the placeholder 'Search within this journal', and a search icon.
- Bottom Bar:** A blue bar located above the 'Latest Articles' section, containing a 'Free Preview' icon and text, and a 'Get Access' icon and text.

The page content includes the journal title 'Journal of Cancer Education', ISSN information, a description, a statistics box showing '5 Volumes 19 Issues 502 Articles available from 2007 - 2011', and a 'Latest Articles' section with a list of articles and a sidebar menu with options like 'Related (5)', 'Supplementary Material (0)', 'References (0)', and 'About this Article'.

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Volume 1 / 20

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Onder Suvak, Alper Demir

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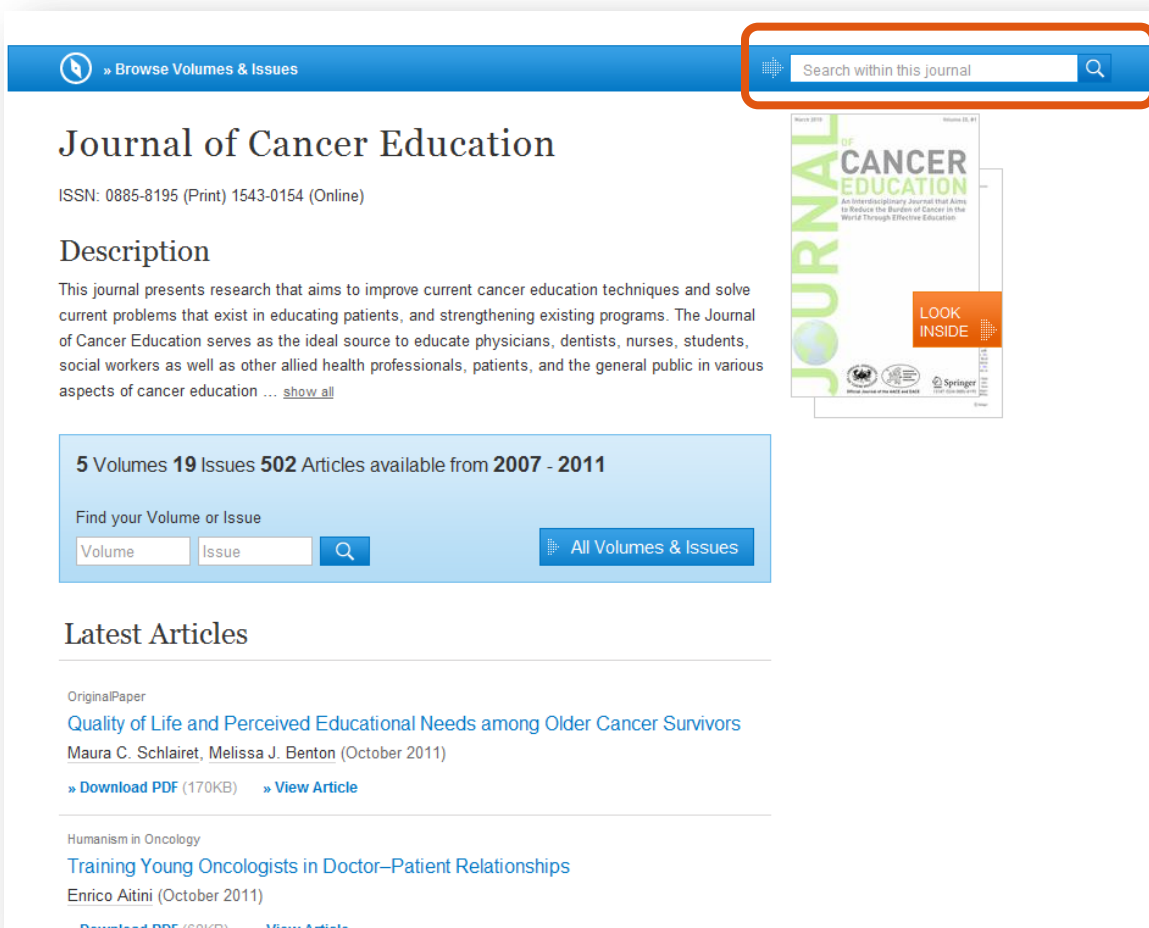
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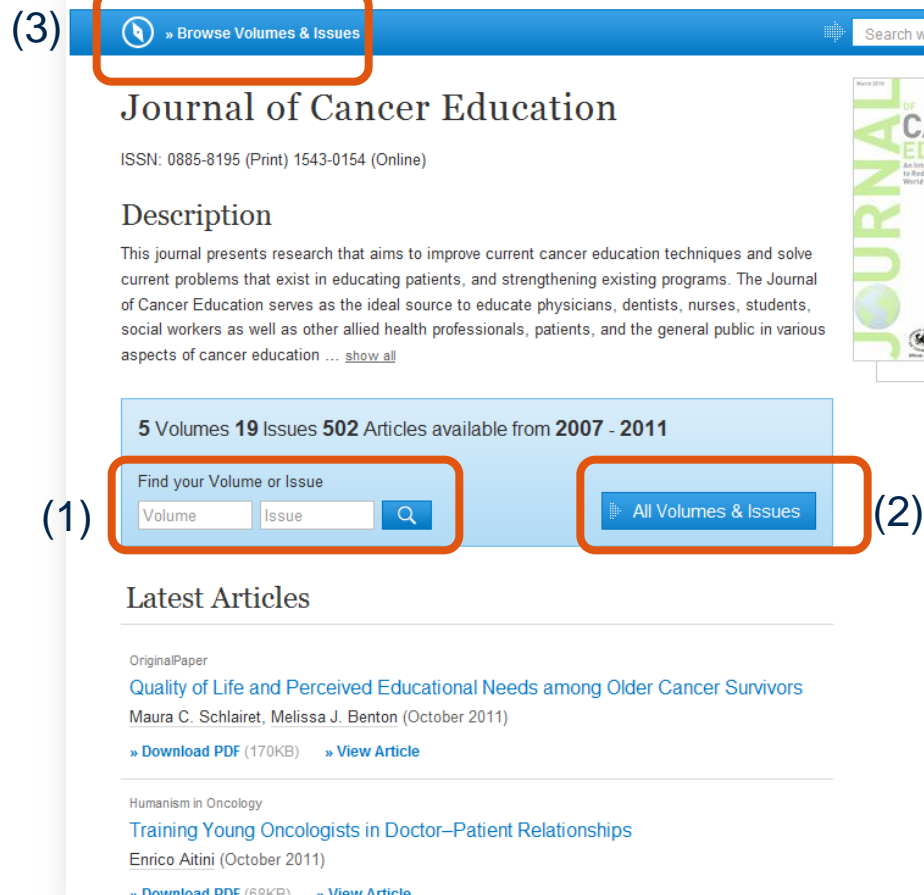
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A Unique Interactive Cognitive Behavioral Training Program for Front-Line Cancer Care Professionals
For between one third and one half of all cancer survivors, disturbances in mood and cognition do not end with the conclusion of treatment. Recognizing this problem, the Institute of Medicine emphasized in its...
Karen Clark, Paul Greene, Kate DuHamel, Matthew Loscalzo... in *Journal of Cancer Education* (2012)
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Hospitalization represents an ideal time to address tobacco cessation. For a variety of reasons, current users do not always receive appropriate support or treatment during the hospitalization. An improvement ...
Stephen K. Liu, Ellen Prior, Colleen Warren, Teresa Brown... in *Journal of Cancer Education* (2010)
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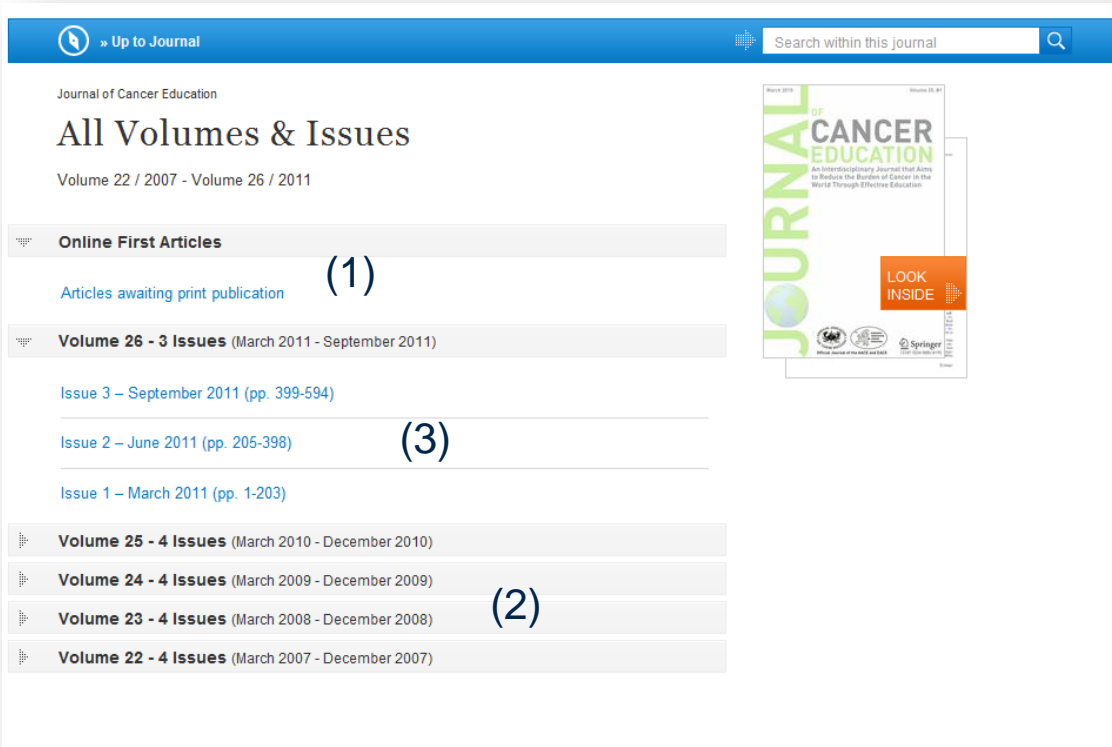
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Journal of Cancer Education
All Volumes & Issues
Volume 22 / 2007 - Volume 26 / 2011

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Issue 3 - September 2011 (pp. 399-594)

Issue 2 - June 2011 (pp. 205-398) (3)

Issue 1 - March 2011 (pp. 1-203)

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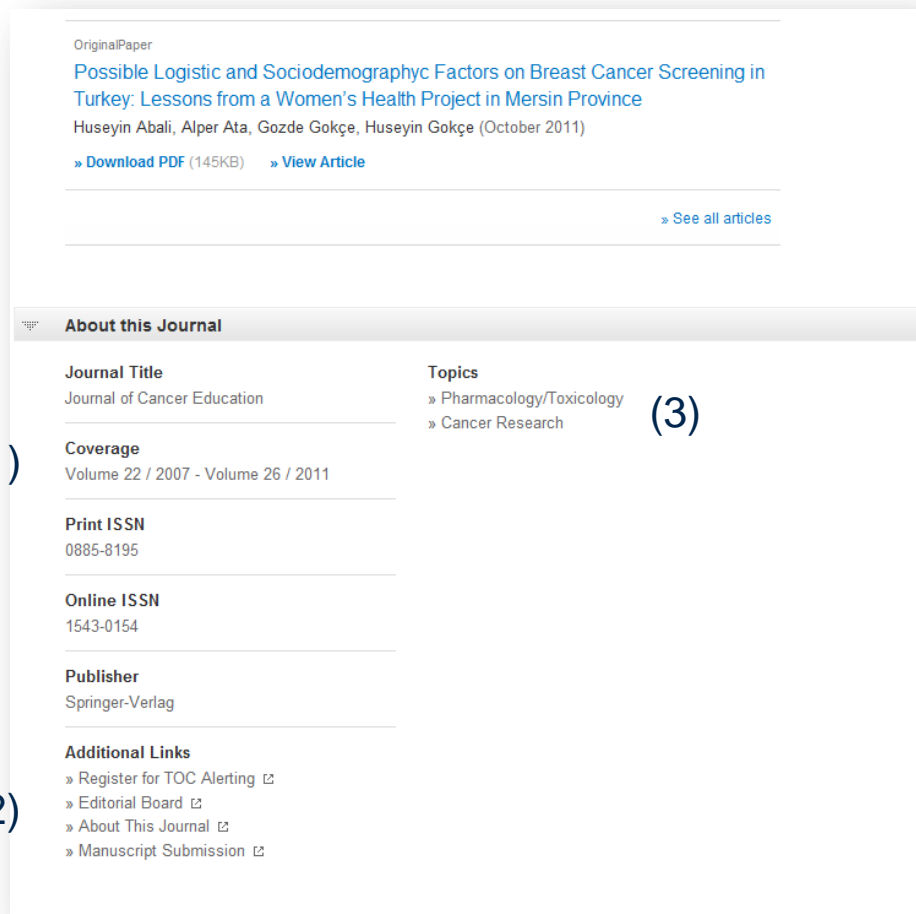
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- Online ISSN:** 1543-0154
- Publisher:** Springer-Verlag
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- Topics:**
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Arthritis Res Ther (3) (4)
March 2003, 5:120


Degeneration of the intervertebral disc (5)

Jill PG Urban, Sally Roberts (6)

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(9) **Abstract**

The intervertebral disc is a cartilaginous structure that resembles articular cartilage in its biochemistry, but morphologically it is clearly different. It shows degenerative and ageing changes earlier than does any other connective tissue in the body. It is believed to be important clinically because there is an association of disc degeneration with back pain. Current treatments are predominantly conservative or, less commonly, surgical; in many cases there is no clear diagnosis and therapy is considered inadequate. New developments, such as genetic and biological approaches, may allow better diagnosis and treatments in the future.

(10)  (11)

Within this Article:

- ▶ Introduction
- ▶ Disc morphology
- ▶ Biochemistry
- ▶ Effect of degenerative changes on disc function and pathology
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Urinary podocalyxin is an early marker for podocyte injury in patients with diabetes: establishment of a highly sensitive ELISA to detect urinary podocalyxin

M. Hara, K. Yamagata, Y. Tomino, A. Saito, Y. Hirayama, S. Ogasawara, H. Kurosawa, S. Sekine, K. Yan

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Abstract

Aims/objective

Nephropathy, a major complication of diabetes, is the leading cause of end-stage renal disease. Recent studies have demonstrated that podocyte injury is involved in the onset of and progression to renal insufficiency. Here, we describe a novel, highly sensitive ELISA for detecting urinary podocalyxin, a glycoconjugate on the podocyte apical surface that indicates podocyte injury, particularly in the early phase of diabetic nephropathy.

Methods



Urine samples from patients with glomerular diseases ($n = 142$) and type 2 diabetes ($n = 71$) were



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Urinary podocalyxin is an early marker for podocyte injury in patients with diabetes: establishment of a highly sensitive ELISA to detect urinary podocalyxin

M. Hara, K. Yamagata, Y. Tomino, A. Saito, Y. Hirayama, S. Ogasawara, H. Kurosawa, S. Sekine, K. Yan

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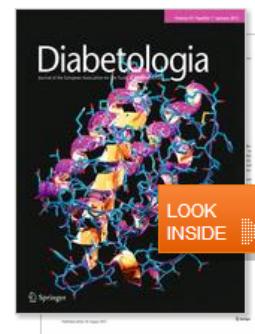
Abstract

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Nephropathy, a major complication of diabetes, is the leading cause of end-stage renal disease. Recent studies have demonstrated that podocyte injury is involved in the pathogenesis of renal insufficiency. Here, we describe a novel, highly sensitive ELISA to detect urinary podocalyxin, a glycoconjugate on the podocyte apical surface that is shed into the urine, particularly in the early phase of diabetic nephropathy.

Methods

Urine samples from patients with glomerular diseases ($n = 142$) were analyzed by a highly sensitive ELISA. This



Within this Article:

Diabetologia
Clinical and Experimental Diabetes and Metabolism
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10.1007/s00125-012-2661-7

Article

Urinary podocalyxin is an early marker for podocyte injury in patients with diabetes: establishment of a highly sensitive ELISA to detect urinary podocalyxin

M. Hara¹✉, K. Yamagata², Y. Tomino³, A. Saito⁴, Y. Hirayama², S. Ogasawara⁵, H. Kurosawa⁵, S. Sekine⁵ and K. Yan⁶

- (1) Department of Pediatrics, Yoshida Hospital, Yoshida 32-14, Tsubame City 959-0242, Niigata, Japan
- (2) Department of Nephrology, University of Tsukuba, Tsukuba, Japan
- (3) Department of Nephrology, Juntendo University, Tokyo, Japan
- (4) Department of Medicine, Niigata University, Niigata, Japan
- (5) Research and Development Department, Denka Seiken, Gosen, Niigata, Japan
- (6) Department of Pediatrics, School of Medicine, Kyorin University, Mitaka, Tokyo, Japan

✉ M. Hara
Email: mhara@yoshida-hosp.jp

Received: 30 May 2012

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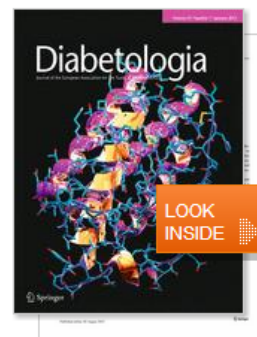
Abstract

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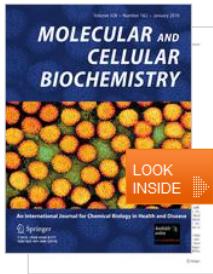
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Abstract

Tissue accumulation of homocysteine occurs in classical homocystinuria, a metabolic disease characterized biochemically by cystathionine β -synthase deficiency. Vascular manifestations such as myocardial infarction, cerebral thrombosis, hepatic steatosis, and pulmonary embolism are common in this disease and poorly understood. In this study, we investigated the effect of chronic hyperhomocysteinemia on some parameters of oxidative stress (thiobarbituric acid-reactive substances, protein carbonyl content, 2',7'-dichlorofluorescein fluorescence assay, and total radical-trapping antioxidant potent) and activities of antioxidant enzymes (superoxide dismutase, catalase, and glutathione peroxidase) in the rat lung. Reduced glutathione content and glucose 6-phosphate dehydrogenase activity, as well as nitrite levels, were also evaluated. Wistar rats received daily subcutaneous injections of Hcy (0.3–0.6 $\mu\text{mol/g}$ body weight) from the 6th to the 28th days-of-age and the control group received saline. One and 12 h after the last injection, rats were killed and the lungs collected. Hyperhomocysteinemia increased lipid peroxidation and oxidative damage to protein, and disrupted antioxidant defenses (enzymatic and non-enzymatic) in the lung of rats, characterizing a reliable oxidative stress. In contrast, this amino acid did not alter nitrite levels. Our findings showed a consistent profile of oxidative stress in the lung of rats, elicited by homocysteine, which could explain, at least in part, the mechanisms involved in the lung damage that is present in some homocystinuric patients.



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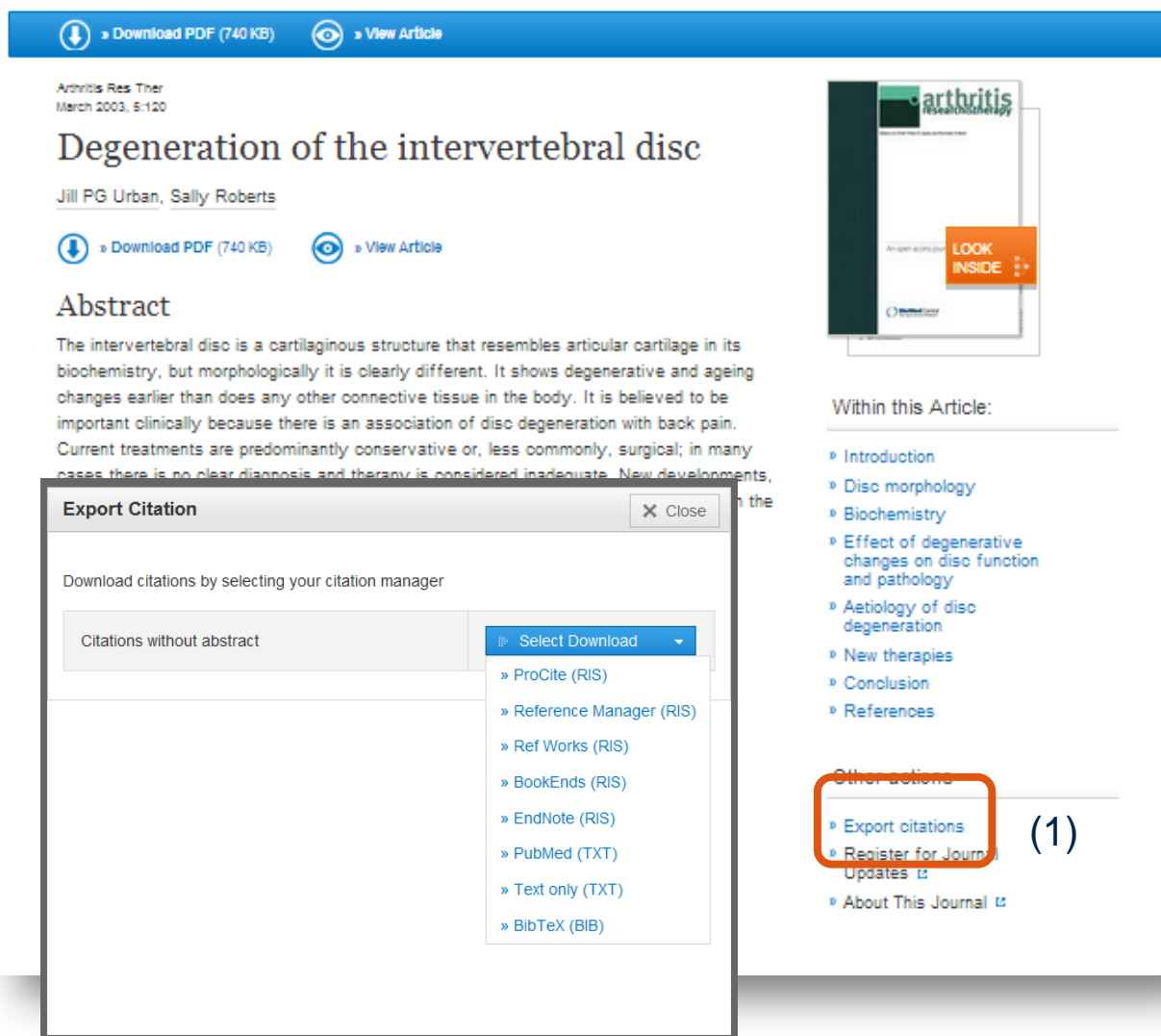
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Diabetologia
November 2012, Volume 55, Issue 11, pp 2913-2919.
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Urinary podocalyxin is an early marker for podocyte injury in patients with diabetes: establishment of a highly sensitive ELISA to detect urinary podocalyxin

M. Hara, K. Yamagata, Y. Tomino, A. Saito, Y. Hirayama, S. Ogasawara, H. Kurosawa, S. Sekine, K. Yan

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Abstract

Aims/objective

Nephropathy, a major complication of diabetes, is the leading cause of end-stage renal disease. Recent studies have demonstrated that podocyte injury is involved in the onset of and progression to renal insufficiency. Here, we describe a novel, highly sensitive ELISA for detecting urinary podocalyxin, a glycoconjugate on the podocyte apical surface that indicates podocyte injury, particularly in the early phase of diabetic nephropathy.

Conclusion/interpretation

Urinary podocalyxin may be a useful biomarker for detecting early podocyte injury in patients with diabetes.

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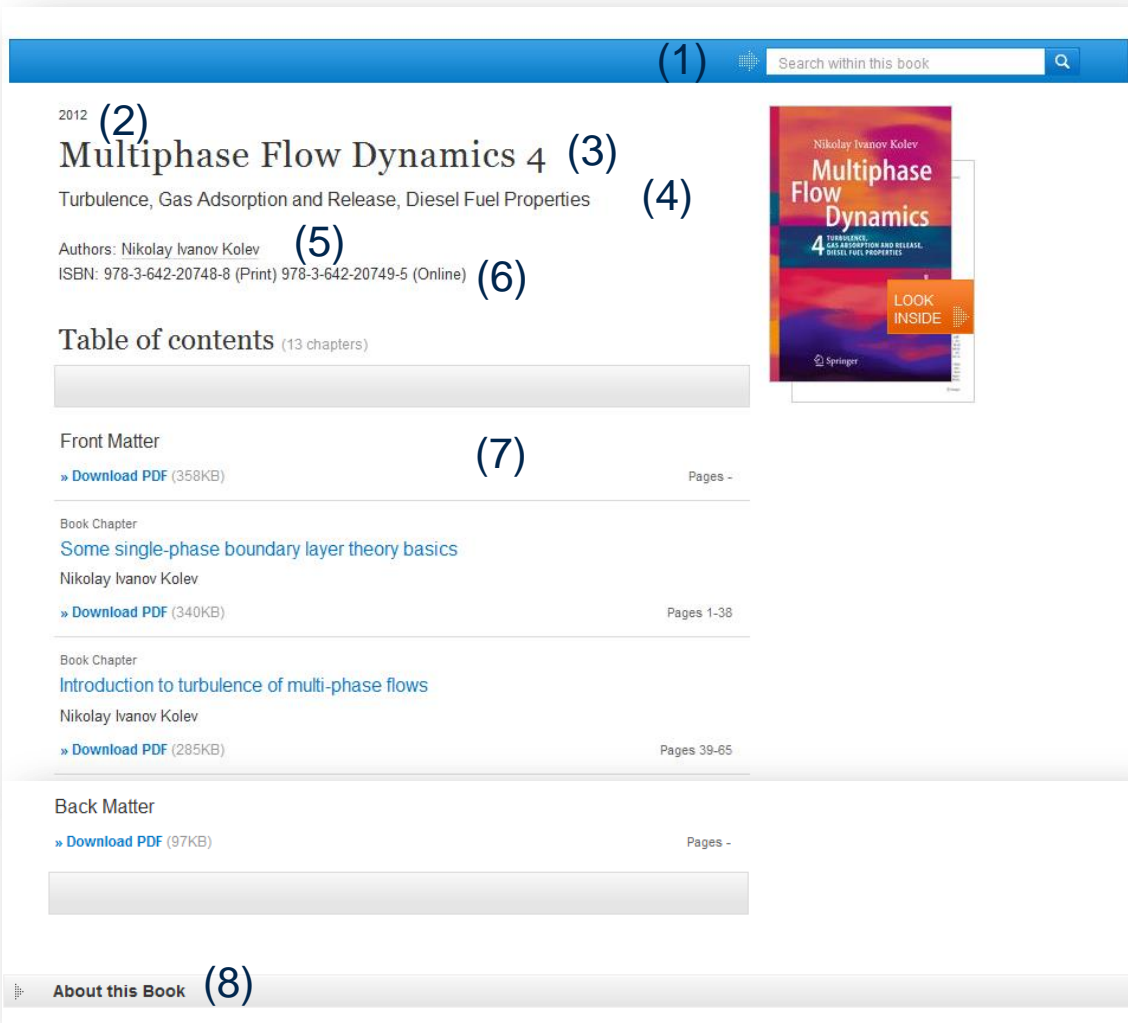
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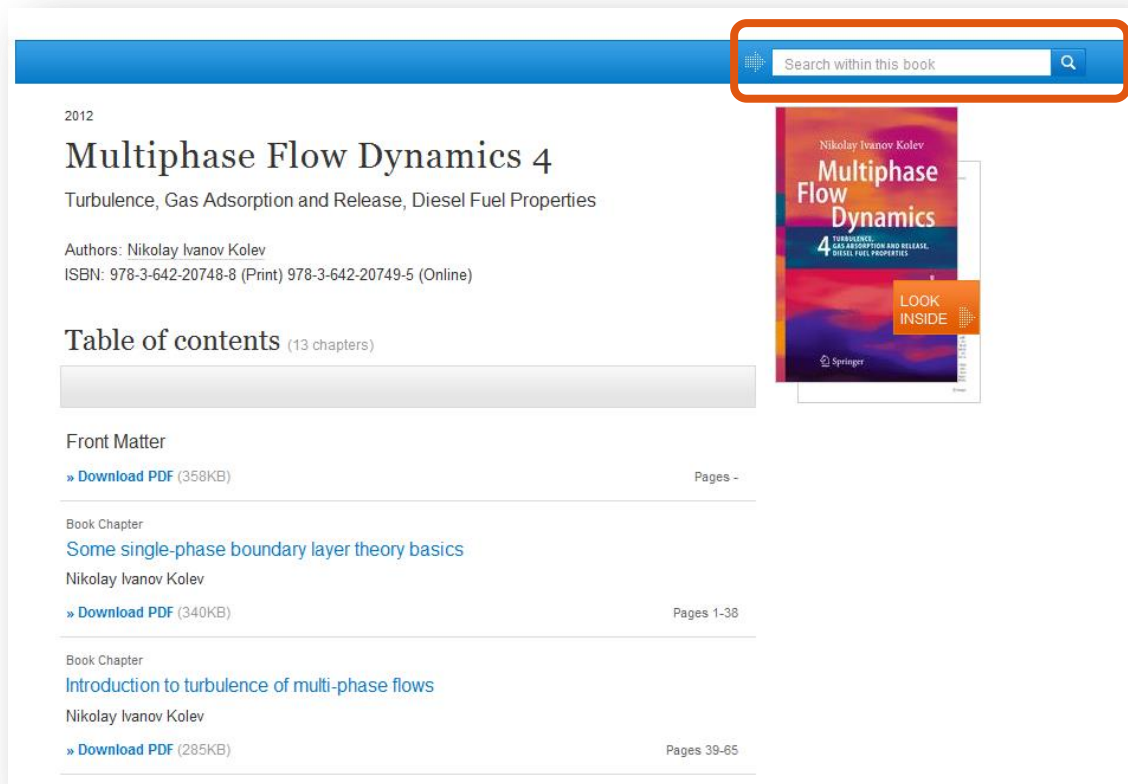
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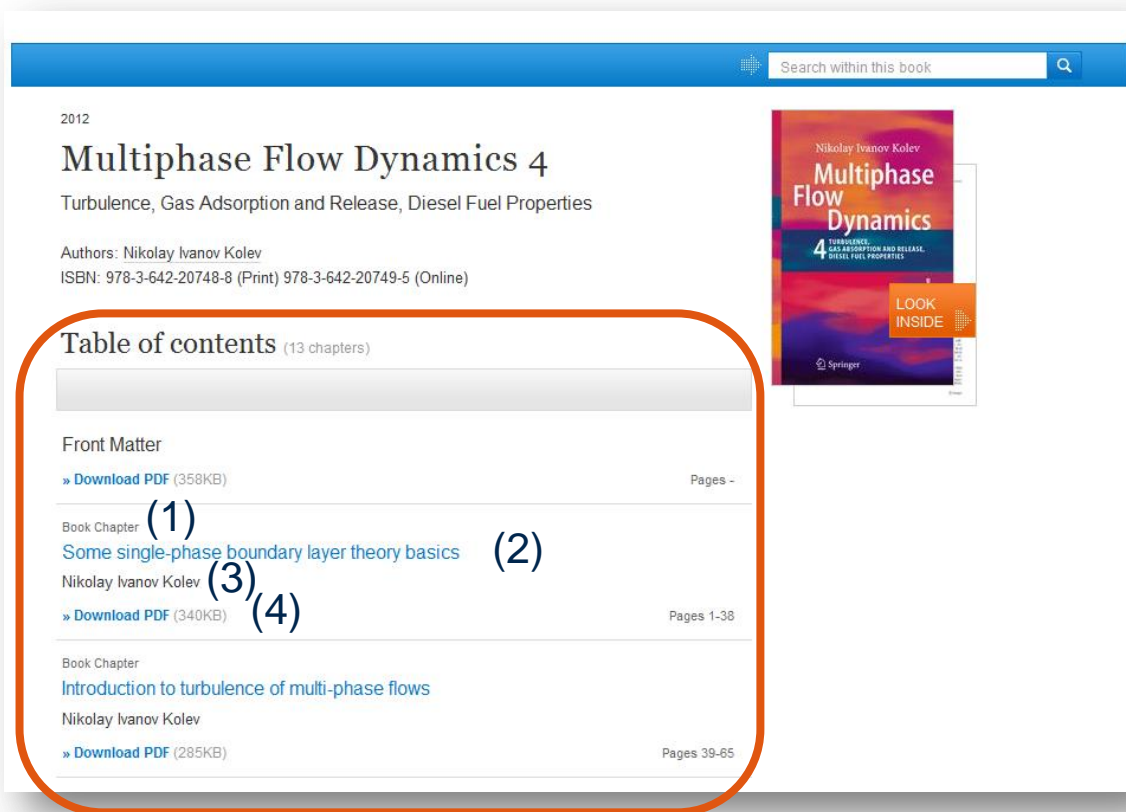
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
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Vector Optimization Problems and Their Solution Concepts


Gabriele Eichfelder, Johannes Jahn

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Abstract

In vector optimization one investigates optimal elements of a set in a pre-ordered space. The problem of determining these optimal elements, if they exist at all, is called a vector optimization problem. Problems of this type can be found not only in mathematics but also in engineering and economics. There, these problems are also called multiobjective (or multi criteria or Pareto) optimization problems or one speaks of multi criteria decision making. Vector optimization problems arise, for example, in functional analysis (the Hahn–Banach theorem, the lemma of Bishop–Phelps, Ekeland’s variational principle), multiobjective programming, multi-criteria decision making, statistics (Bayes solutions, theory of tests, minimal covariance matrices), approximation theory (location theory, simultaneous approximation, solution of boundary value problems) and cooperative game theory (cooperative n player differential games and, as a special case, optimal control problems). In the last decades vector optimization has been extended to problems with set-valued maps. This field, called set optimization, has important applications to variational inequalities and optimization problems with multivalued data.

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