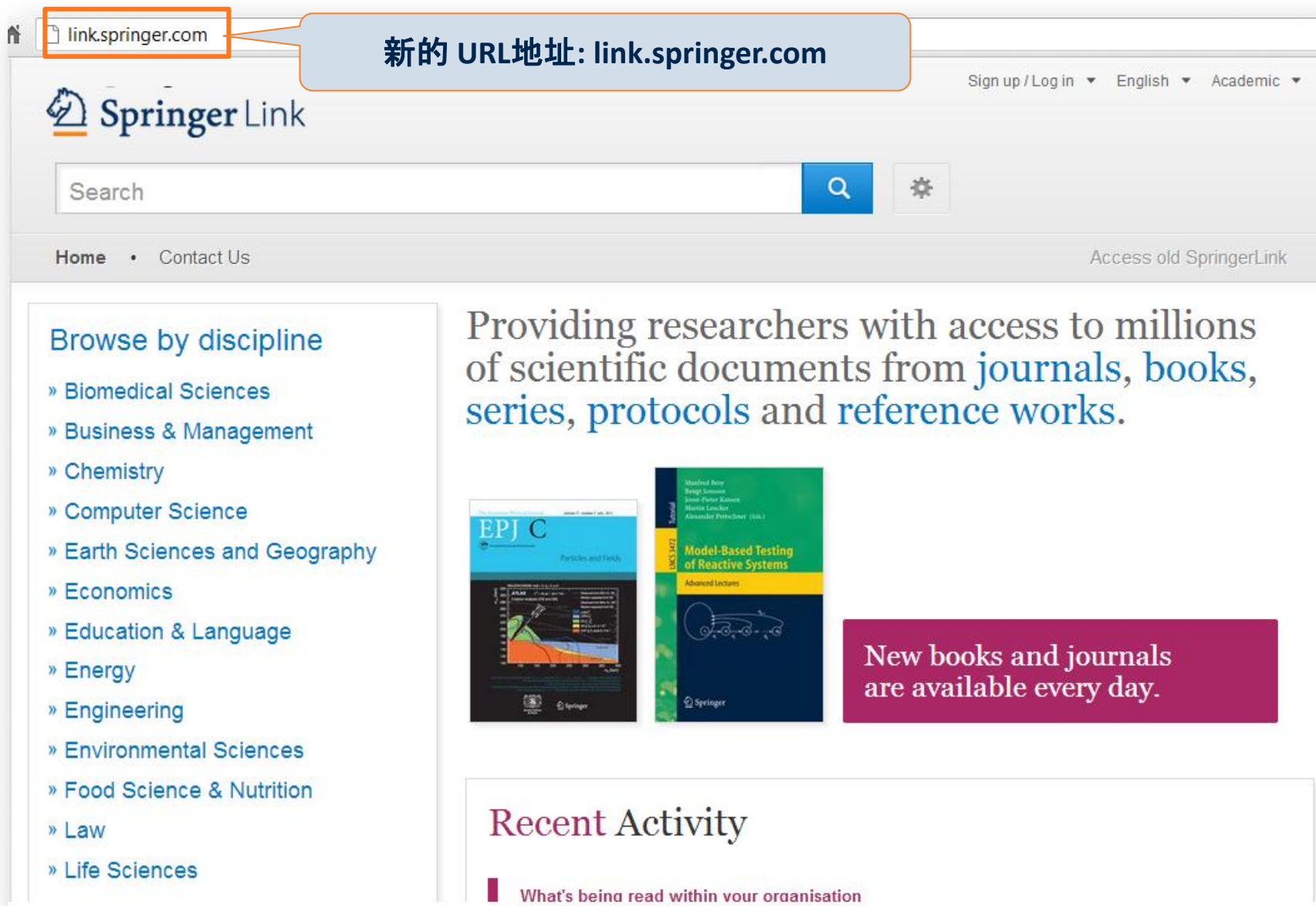




SpringerLink新平台

2014年03月





link.springer.com

新的 URL地址: link.springer.com

Springer Link

Sign up / Log in ▾ English ▾ Academic ▾


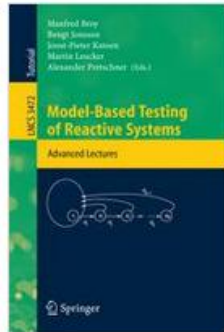
Search  

Home • Contact Us Access old SpringerLink

Browse by discipline

- » Biomedical Sciences
- » Business & Management
- » Chemistry
- » Computer Science
- » Earth Sciences and Geography
- » Economics
- » Education & Language
- » Energy
- » Engineering
- » Environmental Sciences
- » Food Science & Nutrition
- » Law
- » Life Sciences

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.

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



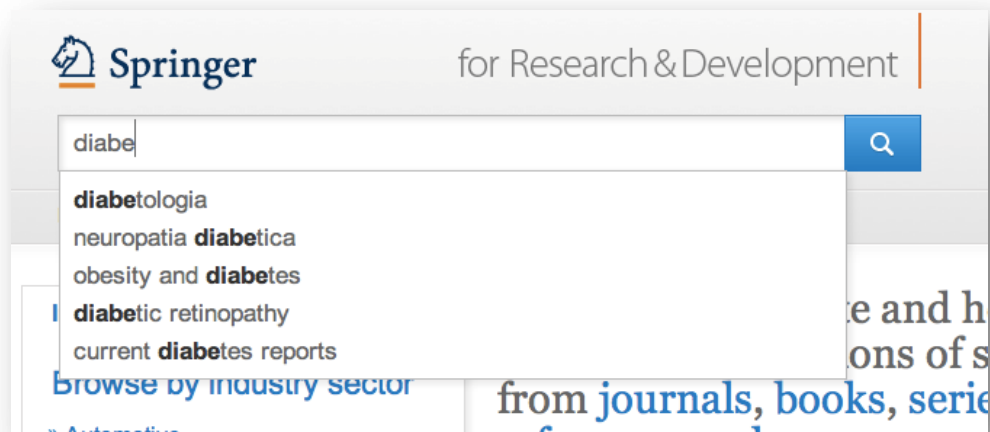
Brian Bishop ▾ English ▾ Academic ▾

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

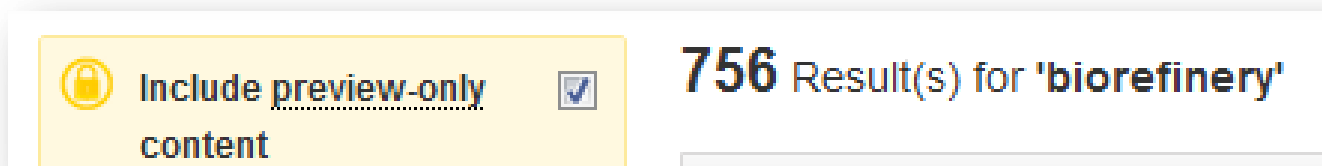
新平台添加了更多新功能:

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



直接链接到HTML部分

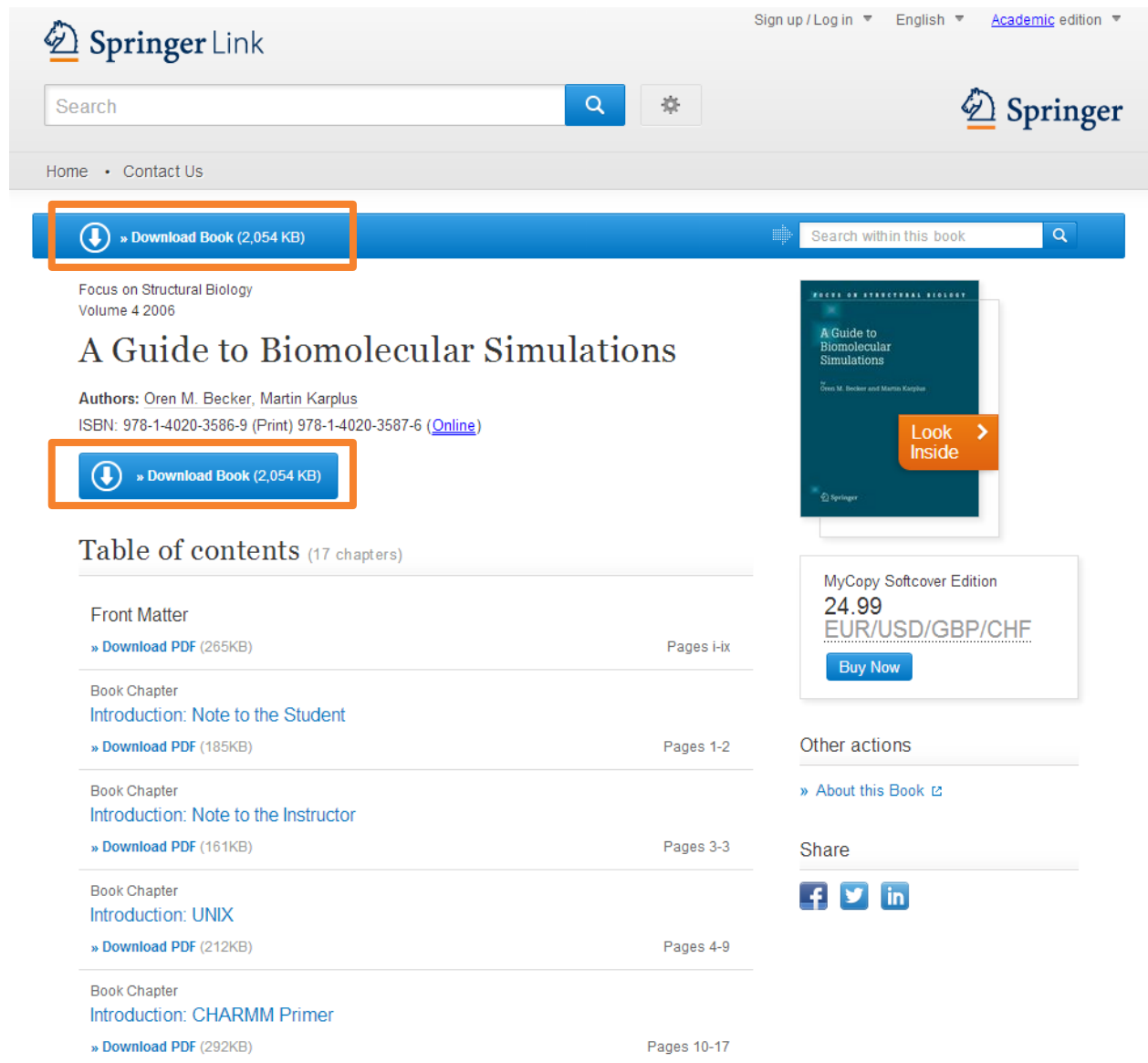
- » Introduction
- » Patients and methods
- » Results
- » Discussion
- » References

Gender: Female %

The dynamics of macromolecular conformations are critical to the action of cellular processes. To understand the mechanisms of these processes, a variety of experimental and computational techniques have been developed. In this review, I discuss the principal means of direct identification of macromolecular conformations from SAXS data followed by critical concerns about the methods used to calculate conformational ensembles from high-resolution structures. The SAXS profile is a direct interrogation of the three-dimensional distribution of electron density. I discuss the strengths and limitations of SAXS and techniques such as, for example, minimal ensemble search (MES), enhanced sampling techniques, and Bayesian inference, to enhance the information content of SAXS experiments by describing the SAXS profiles as population-weighted thermodynamic averages. 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. I discuss how these approaches sacrifice atomic detail, the knowledge gained from ensemble analysis, and the challenges in developing hypotheses and guiding biochemical experiments. Examples of the use of these techniques in the study of protein-ligand interactions, protein-protein interactions, and protein dynamics are provided.

更多新功能:

- 增加一键下载
整本电子图书功能



The screenshot displays the SpringerLink interface for the book "A Guide to Biomolecular Simulations" by Oren M. Becker and Martin Karplus. The book is part of the "Focus on Structural Biology" series, Volume 4, 2006. The ISBN is 978-1-4020-3586-9 (Print) and 978-1-4020-3587-6 (Online). The interface highlights two "Download Book (2,054 KB)" buttons, one at the top and one below the title, both enclosed in orange boxes. The table of contents lists five chapters, each with a "Download PDF" link and page range. On the right, there is a "Look Inside" button, a price tag for the MyCopy Softcover Edition at 24.99 EUR/USD/GBP/CHF, and a "Buy Now" button. Social media sharing options for Facebook, Twitter, and LinkedIn are also visible.

Springer Link

Sign up / Log in English Academic edition

Search

Home • Contact Us

» Download Book (2,054 KB)

Search within this book

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)

» Download Book (2,054 KB)

» Look Inside

MyCopy Softcover Edition
24.99
EUR/USD/GBP/CHF
Buy Now

Table of contents (17 chapters)

Front Matter	Pages i-ix
» Download PDF (265KB)	
Book Chapter Introduction: Note to the Student	Pages 1-2
» Download PDF (185KB)	
Book Chapter Introduction: Note to the Instructor	Pages 3-3
» Download PDF (161KB)	
Book Chapter Introduction: UNIX	Pages 4-9
» Download PDF (212KB)	
Book Chapter Introduction: CHARMM Primer	Pages 10-17
» Download PDF (292KB)	

Other actions

» About this Book

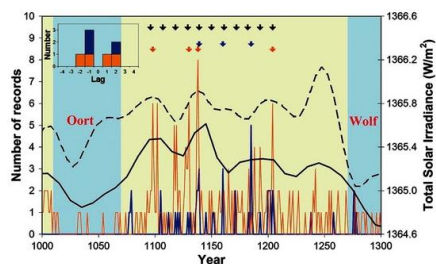
Share

f t in

更多新功能:

- 相关图片及表格可以在搜索结果页面中显示

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



solar physics



New Search

Home • [Contact Us](#)
☒ Include Preview-Only content

116,863 Result(s) for 'solar physics'



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

see all

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

Subdiscipline

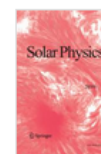
see all

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

Journal

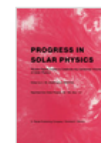
Solar Physics

Volume 1 / 1967 - Volume 289 / 2014



Book

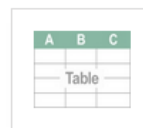
Progress in Solar Physics

Review Papers Invited to Celebrate the [Centennial](#) Volume of Solar Physics
C. De Jager, Z. Švestka (1986)

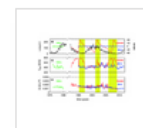
9,448 Result(s) for 'solar physics' on SpringerImages



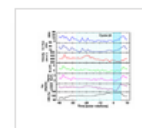
Comparison of various parameters...



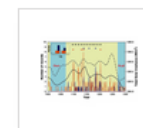
Occurrences of FDs and GSs as per...



Panel (a): monthly solar sunspot...



The values averaged over one...



Different solar activity proxies...

更多新功能：

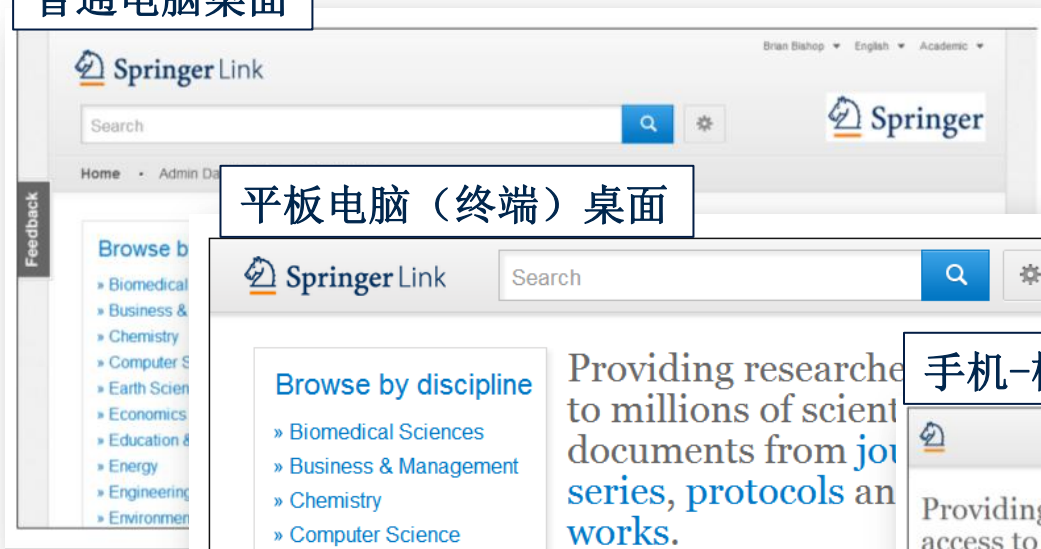
- 提供COUNTER R4形式的使用情况报告
- 提供SUSHI协议标准

如需了解如何使用该项服务，请参见<http://link.live.springer.com/admin/counter4/faq>

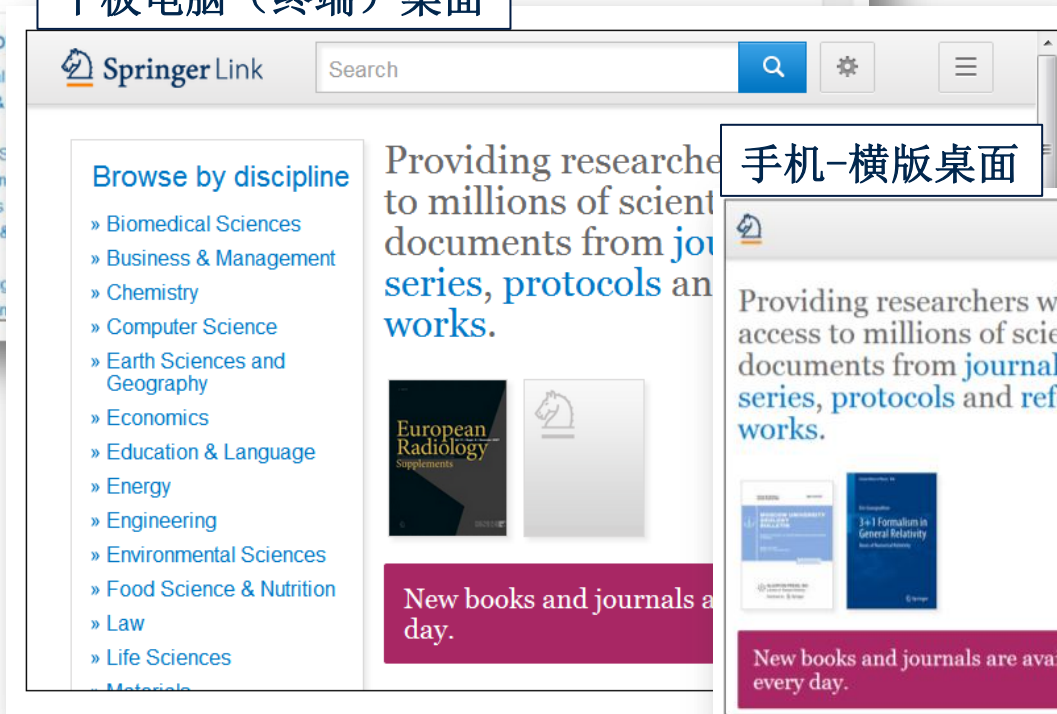
新平台适应各种移动终端、智能手机

- 网络响应设计让所有移动设备具有最佳视觉效果

普通电脑桌面



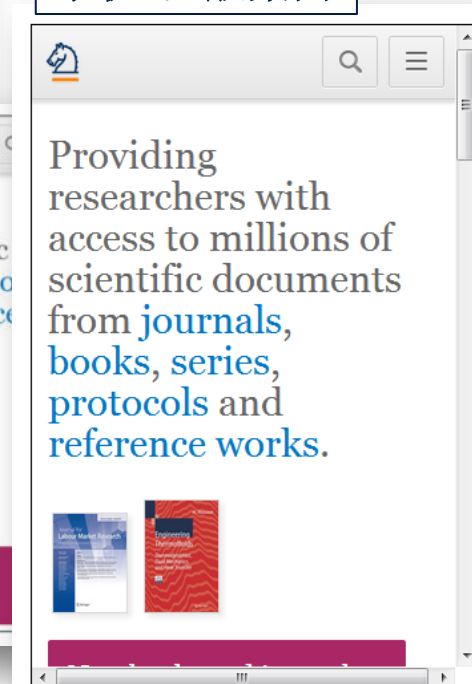
平板电脑（终端）桌面



手机-横版桌面



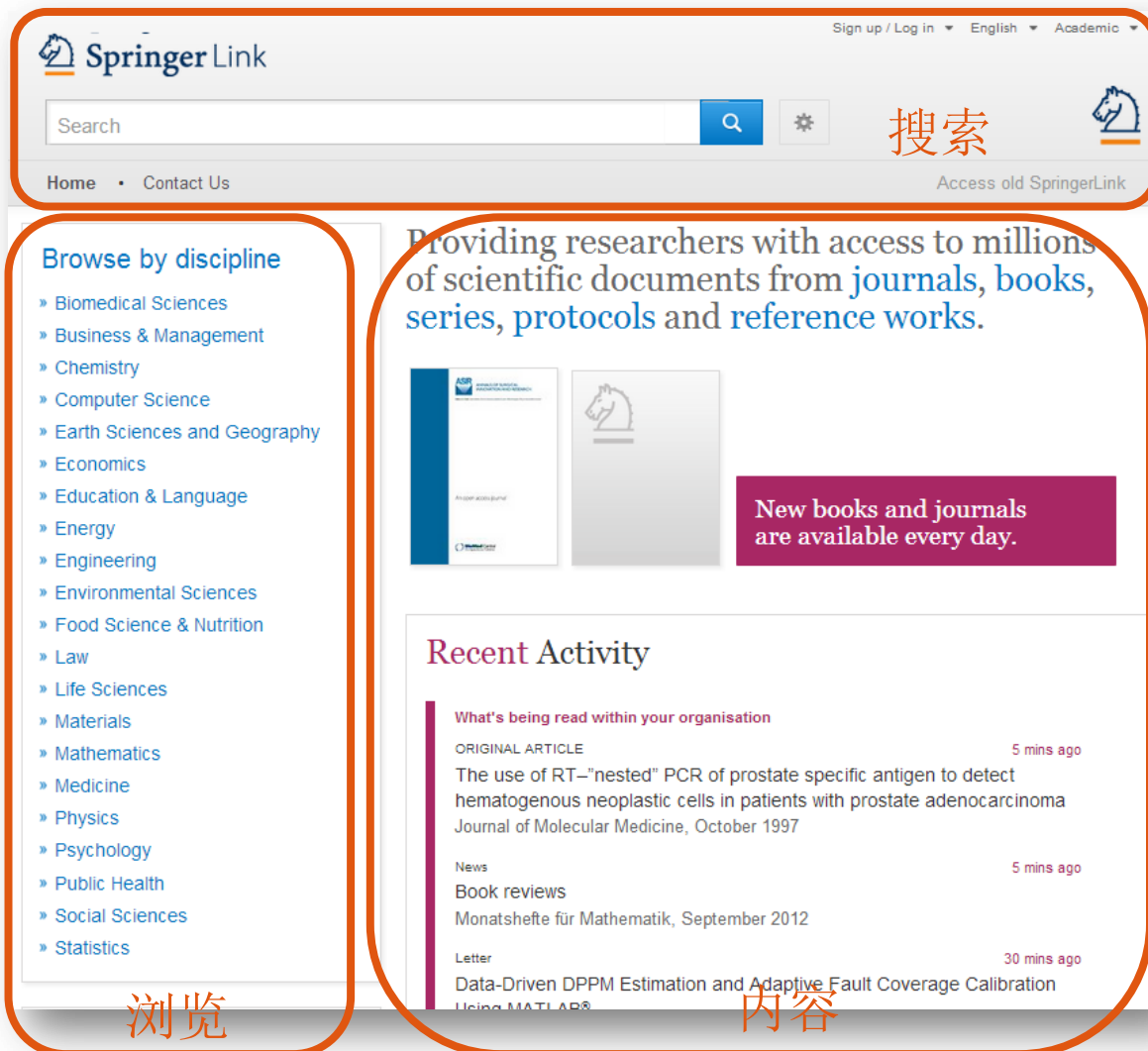
手机-竖版桌面



主页

- 3个部分:搜索 – 浏览 – 内容
- 以不同的颜色来识别用户或匿名用户
- 具有可识别功能
- 匿名用户
- 公司用户
- 公司标识
- 搜索功能
- 按行业浏览
- 按内容浏览

主页



The screenshot shows the SpringerLink homepage. At the top, there is a navigation bar with the SpringerLink logo, a search bar, and links for 'Sign up / Log in', 'English', and 'Academic'. Below the navigation bar, the main content area is divided into three sections highlighted by orange rounded rectangles:

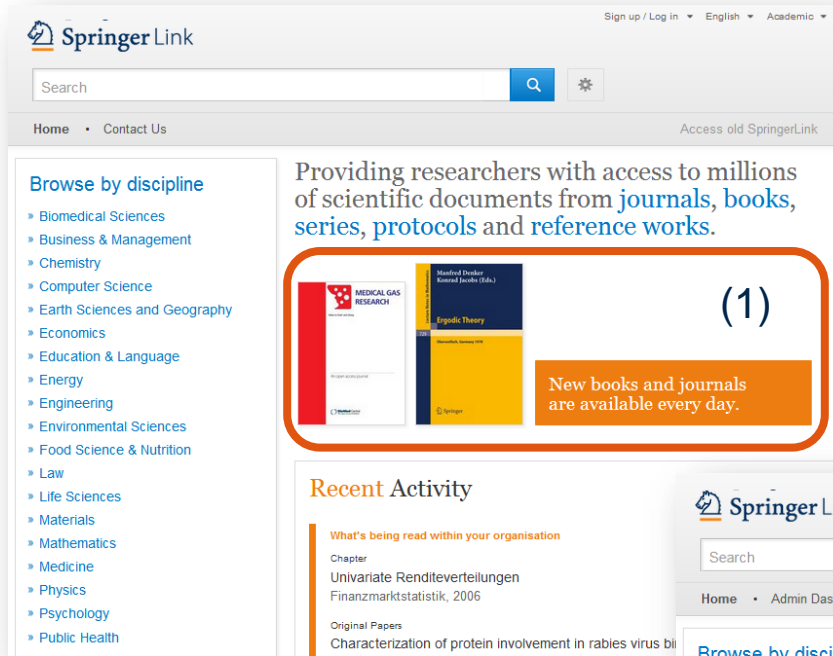
- Search Function:** A search bar with the text 'Search' and a magnifying glass icon, followed by a large orange Chinese character '搜索' (Search).
- Browse by discipline:** A list of disciplines with a blue arrow icon next to each item:
 - » Biomedical Sciences
 - » Business & Management
 - » Chemistry
 - » Computer Science
 - » Earth Sciences and Geography
 - » Economics
 - » Education & Language
 - » Energy
 - » Engineering
 - » Environmental Sciences
 - » Food Science & Nutrition
 - » Law
 - » Life Sciences
 - » Materials
 - » Mathematics
 - » Medicine
 - » Physics
 - » Psychology
 - » Public Health
 - » Social Sciences
 - » Statistics
- Recent Activity:** A section titled 'Recent Activity' showing a list of recent publications and news items, including their titles, authors, and publication dates.

At the bottom of the screenshot, there are two large orange Chinese characters: '浏览' (Browse) on the left and '内容' (Content) on the right.

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

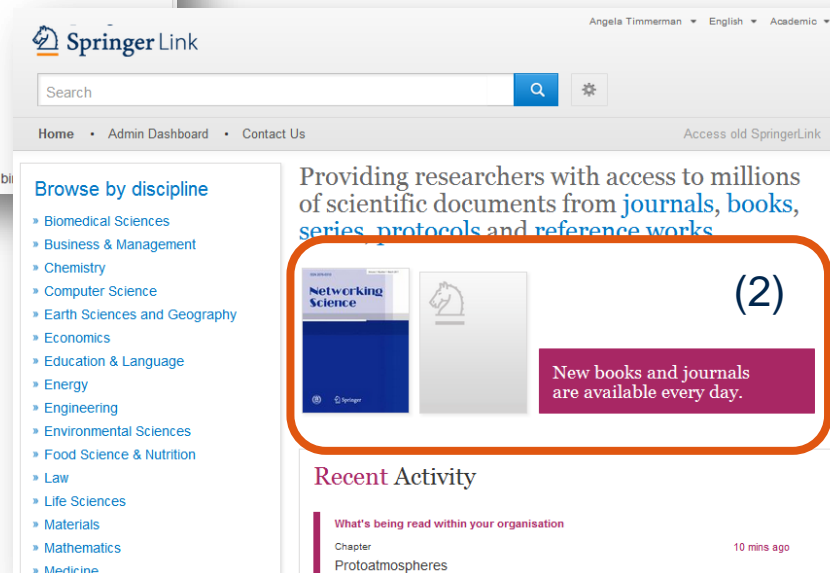
主页



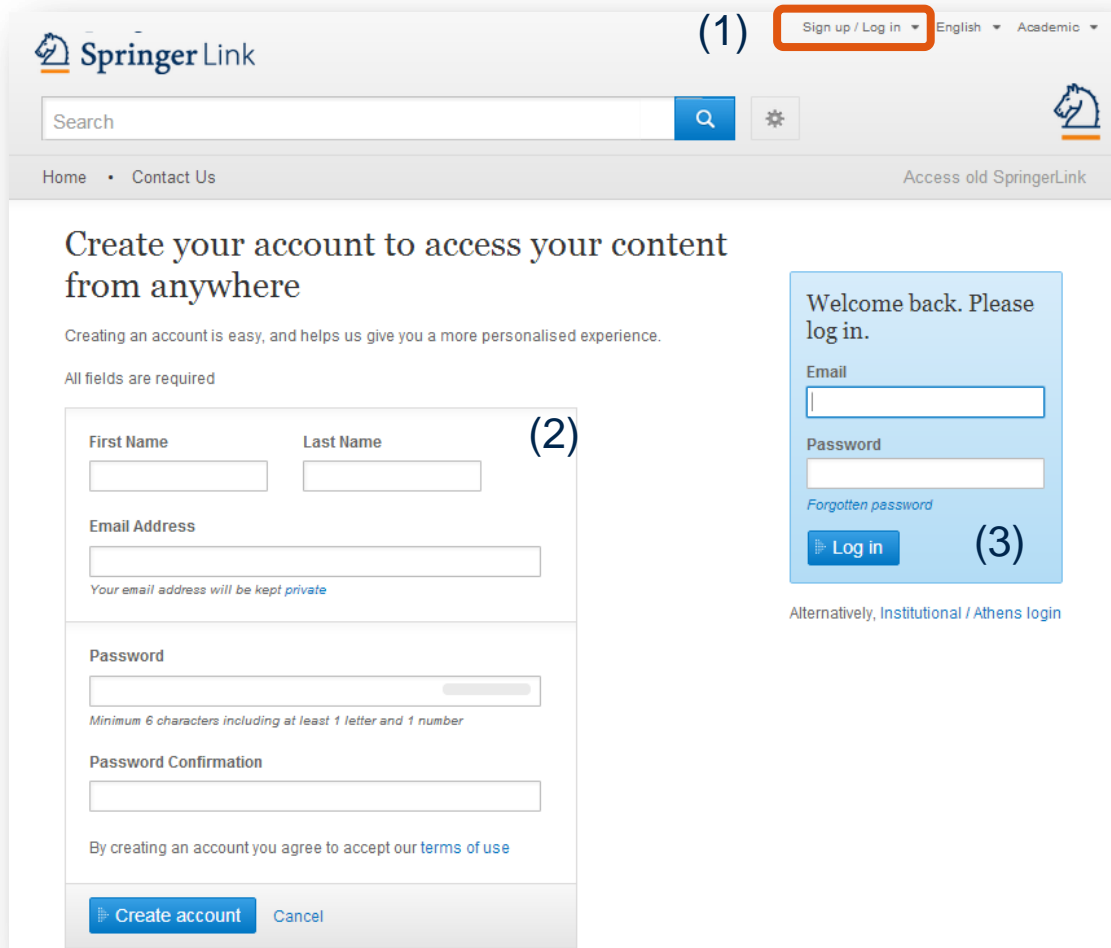
内容区域

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



主页：可识别用户 VS 匿名用户



The image shows the SpringerLink homepage. At the top, there is a navigation bar with the SpringerLink logo, a search bar, and links for 'Sign up / Log in', 'English', and 'Academic'. Below the navigation bar, there are links for 'Home' and 'Contact Us', and a link for 'Access old SpringerLink'. The main content area is divided into two sections. The left section is titled 'Create your account to access your content from anywhere' and contains a form for creating a new account. The right section is titled 'Welcome back. Please log in.' and contains a form for logging in. The 'Sign up / Log in' link in the navigation bar is highlighted with a red box and labeled (1). The 'Log in' button in the login form is highlighted with a blue box and labeled (3). The 'Create account' button in the account creation form is highlighted with a blue box and labeled (2).

Springer Link

(1) Sign up / Log in English Academic

Search

Home • Contact Us Access old SpringerLink

Create your account to access your content from anywhere

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

All fields are required

First Name Last Name (2)

Email Address

Your email address will be kept private

Password

Minimum 6 characters including at least 1 letter and 1 number

Password Confirmation

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

Create account Cancel

Welcome back. Please log in.

Email

Password

Forgotten password

Log in (3)

Alternatively, Institutional / Athens login

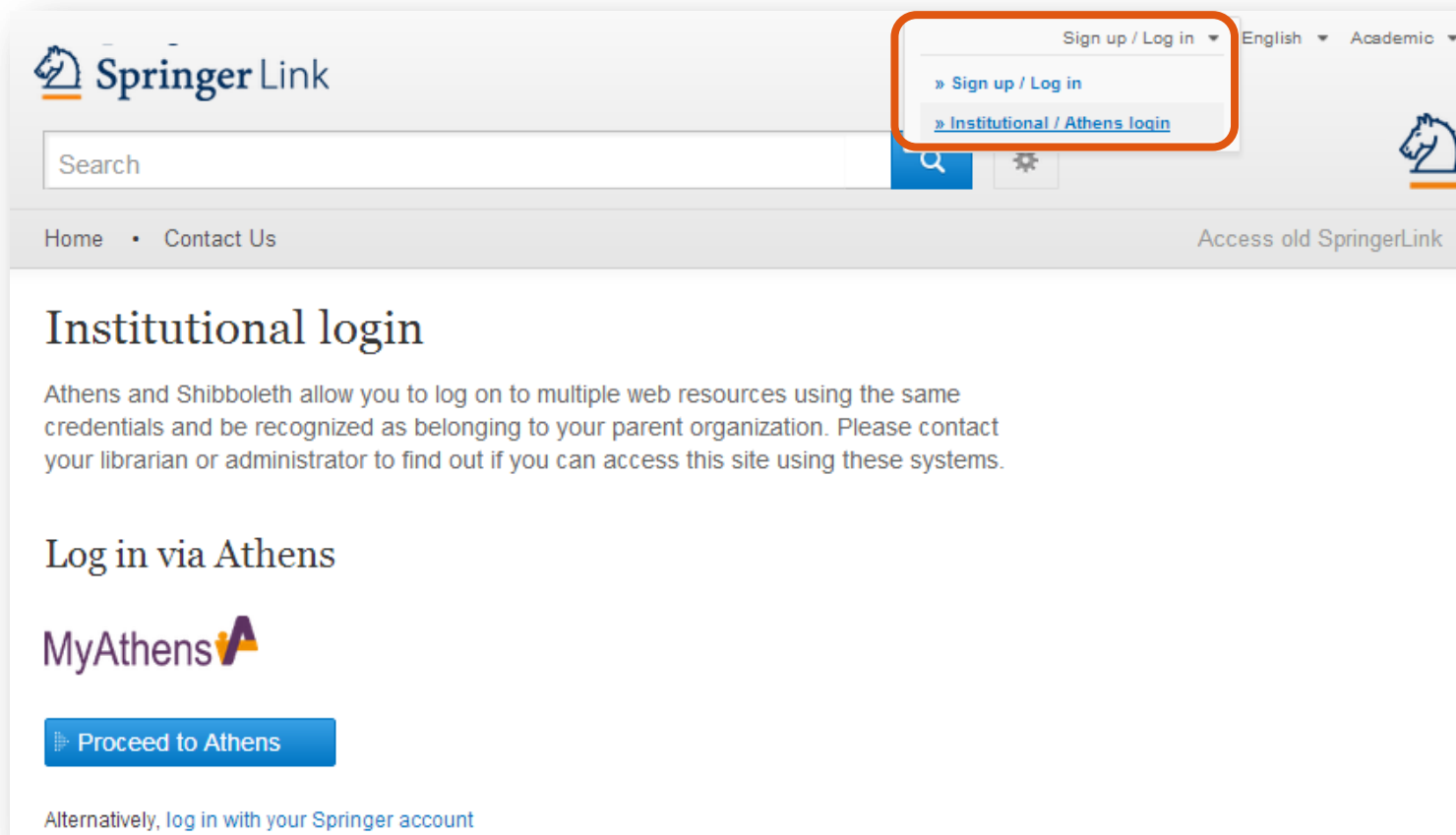
识别功能

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

同时，用户登入时所用的邮箱和密码也可以进行识别：

1. 点击注册/登录（Sign Up/Login）
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, the SpringerLink logo is on the left, and a navigation bar on the right contains 'Sign up / Log in', 'English', and 'Academic'. A red rectangle highlights the 'Sign up / Log in' dropdown menu, which is open and shows two options: '» Sign up / Log in' and '» Institutional / Athens login'. Below the navigation bar is a search bar with the placeholder text 'Search'. Below the search bar is a horizontal menu with 'Home' and 'Contact Us', and a link to 'Access old SpringerLink' on the right. The main content area has the heading 'Institutional login' and a paragraph explaining that Athens and Shibboleth allow users to log on to multiple web resources using the same credentials. 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 that says 'Alternatively, log in with your Springer account'.

Springer Link

Search

Home • Contact Us

Access old SpringerLink

Institutional login

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.

Log in via Athens

MyAthens

Proceed to Athens

Alternatively, log in with your Springer account

主页- 匿名用户

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.

Recent Activity

What's being read within your organisation

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

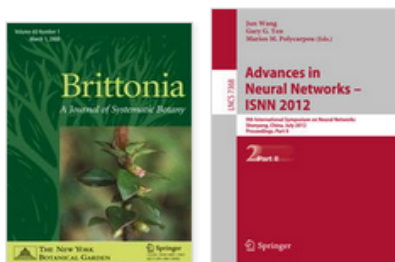
匿名用户:

如果您匿名登录，“活动”（Activity）将显示为橙色

在该区域中，您将获得所有最近期的下载列表

主页 - 可识别的机构用户

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.

Recent Activity

What's being read within your organisation

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

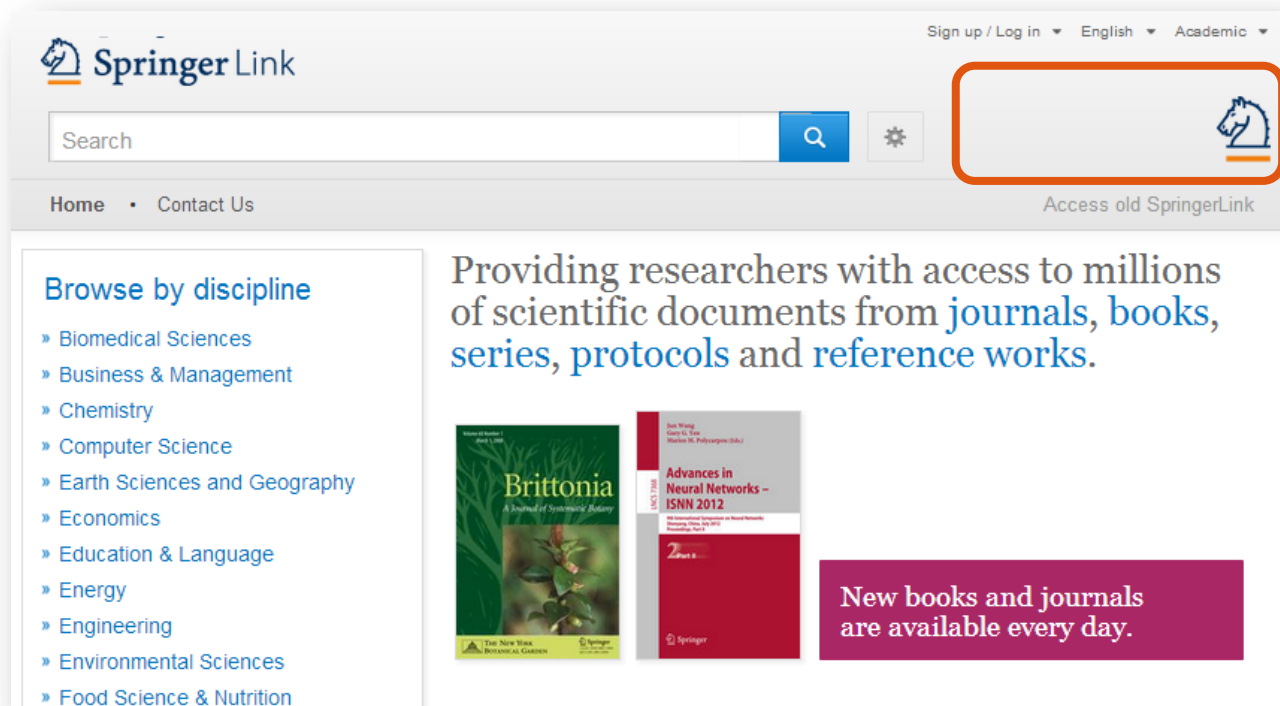
Amelioration of 2,4,6-trinitrobenzene sulfonic acid-induced colitis in mice by immunoregulatory dendritic cells
Journal of Gastroenterology, December 2011

机构用户:

如果您以机构名义登入, “活动”(Activity)将显示为粉红色

在该区域内,您将会看到您所在机构最近期的下载列表

机构标识

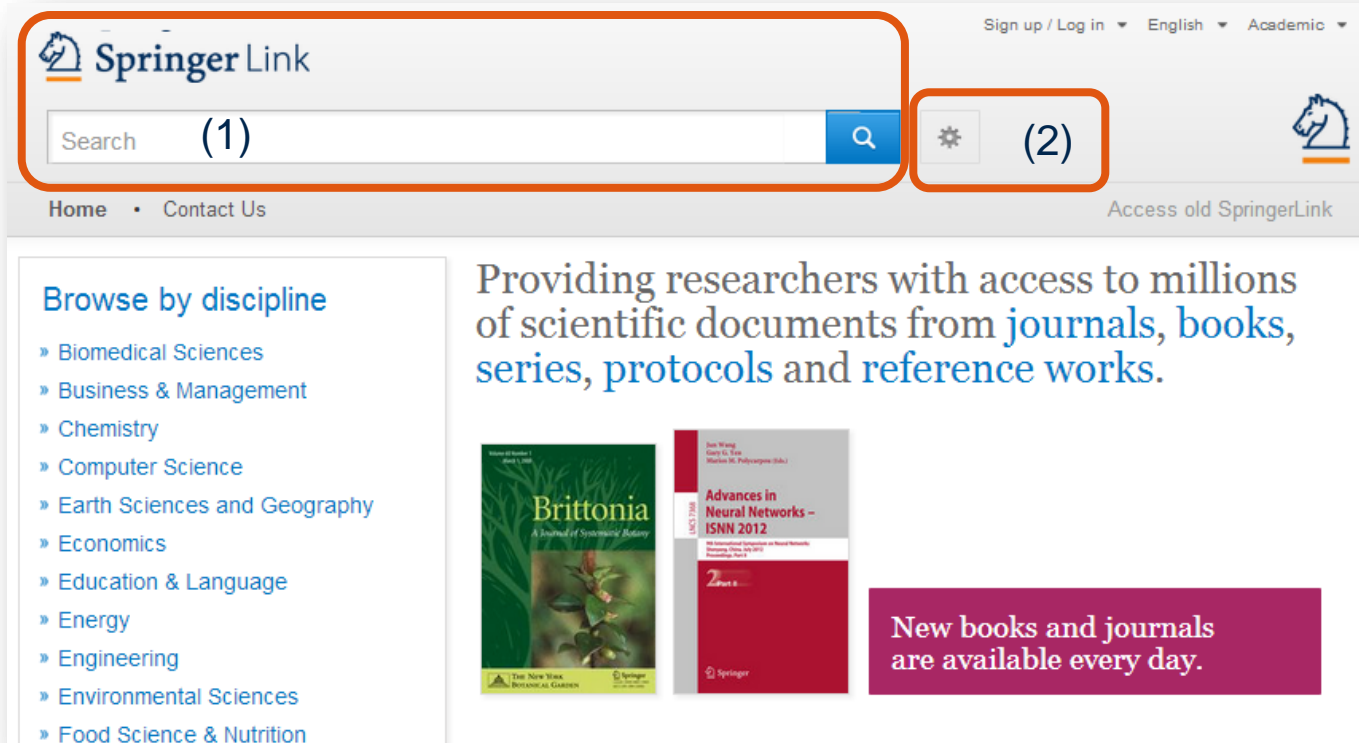


机构标识

对于公司用户，您可以将该公司的标识加入到Springer网站页眉

SpringerLink数据库管理员可以进行此操作

搜索

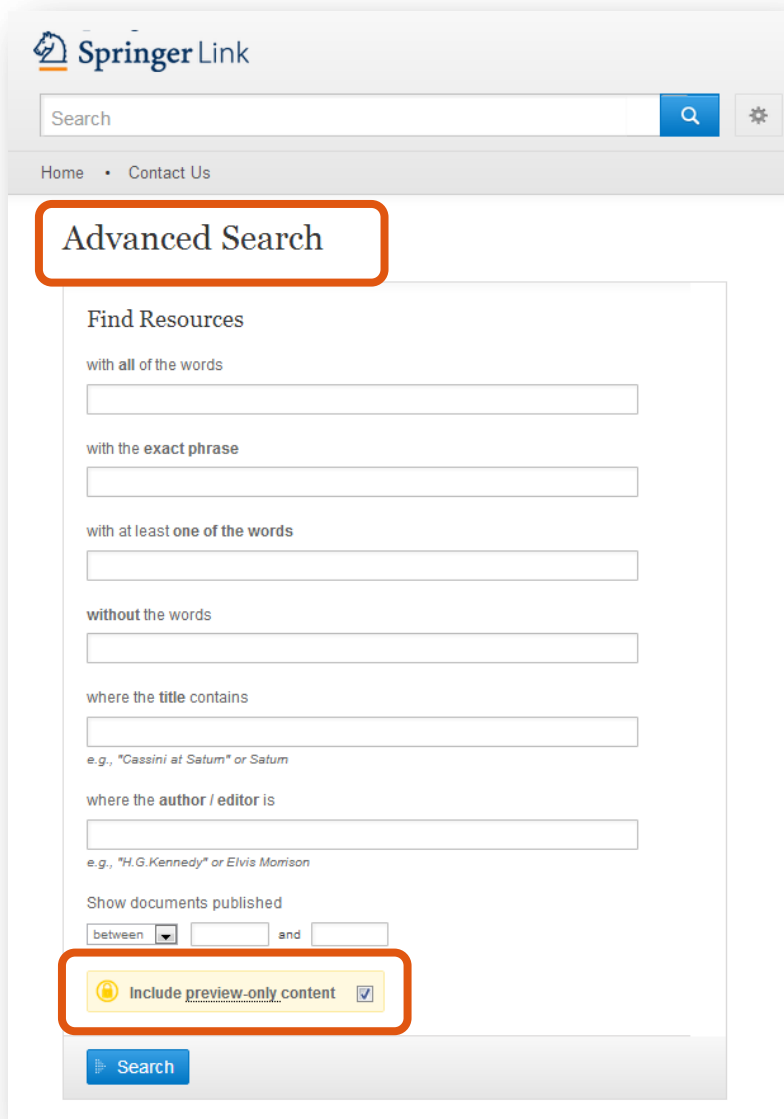


The screenshot shows the SpringerLink homepage. At the top, there is a navigation bar with 'Sign up / Log in', 'English', and 'Academic' links. Below this is a search bar labeled 'Springer Link' with a search icon (1) and a settings icon (2). The main content area features a 'Browse by discipline' sidebar with various scientific fields, a central text block stating 'Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.', and a section for 'New books and journals are available every day.' with images of journal covers like 'Brittonia' and 'Advances in Neural Networks'.

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 the text "Search" and a magnifying glass icon. Below the search bar, there are navigation links for "Home" and "Contact Us". The main section is titled "Advanced Search" and contains several search options:

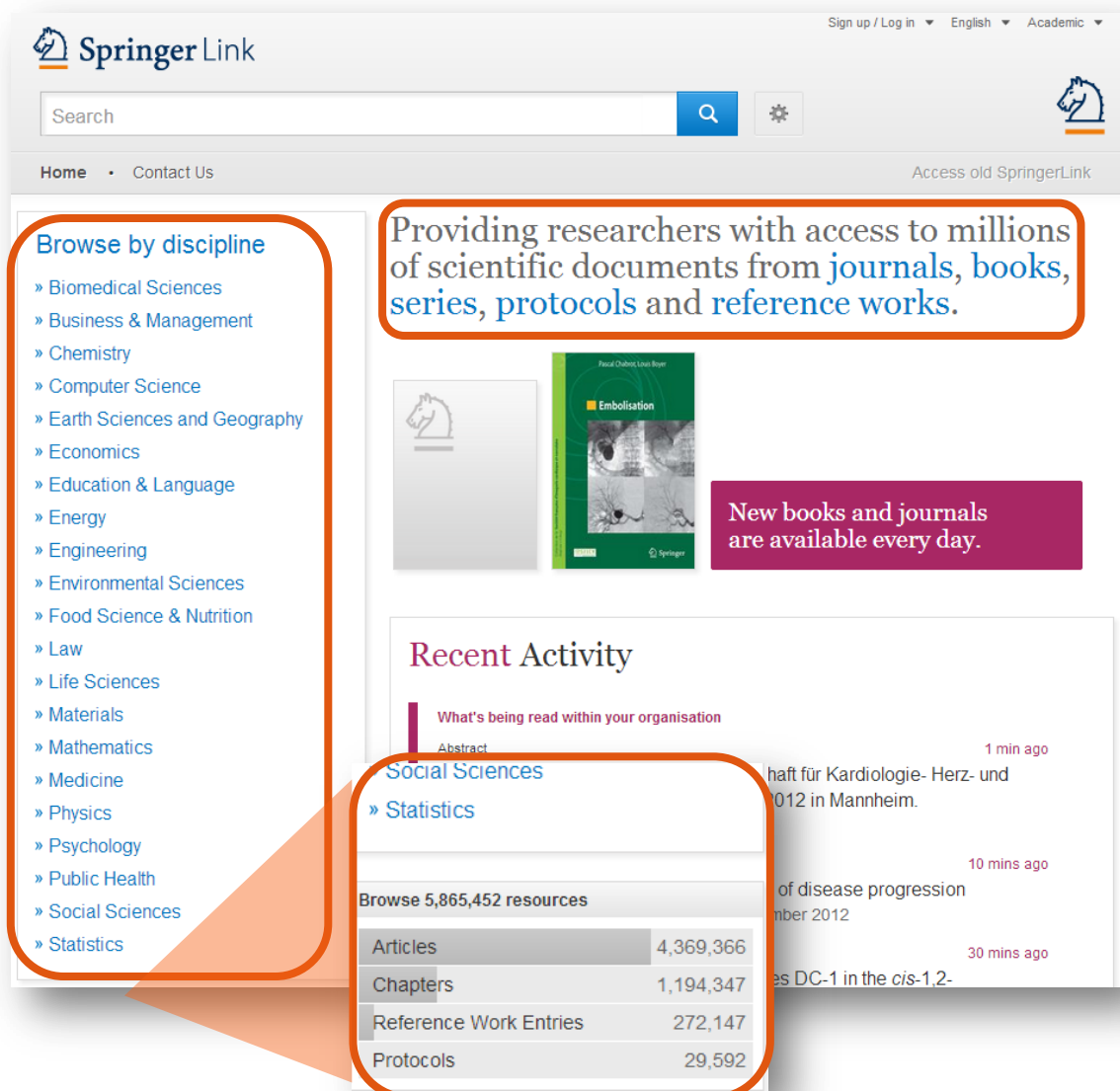
- Find Resources**
 - with all of the words:
 - with the exact phrase:
 - with at least one of the words:
 - without the words:
 - where the title contains:
e.g., "Cassini at Saturn" or Saturn
 - where the author / editor is:
e.g., "H. G. Kennedy" or Elvis Morrison
- Show documents published: between 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



The screenshot shows the SpringerLink homepage. A search bar is at the top. On the left, a 'Browse by discipline' sidebar is highlighted with an orange box. In the center, a banner for 'Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.' is highlighted with an orange box. Below this, a 'Recent Activity' section is highlighted with an orange box, showing a list of recent publications. At the bottom, a table titled 'Browse 5,865,452 resources' is highlighted with an orange box, listing various resource types and their counts.

Springer Link

Search

Home • Contact Us

Access old SpringerLink

Browse by discipline

- » Biomedical Sciences
- » Business & Management
- » Chemistry
- » Computer Science
- » Earth Sciences and Geography
- » Economics
- » Education & Language
- » Energy
- » Engineering
- » Environmental Sciences
- » Food Science & Nutrition
- » Law
- » Life Sciences
- » Materials
- » Mathematics
- » Medicine
- » Physics
- » Psychology
- » Public Health
- » 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.

Recent Activity

What's being read within your organisation

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

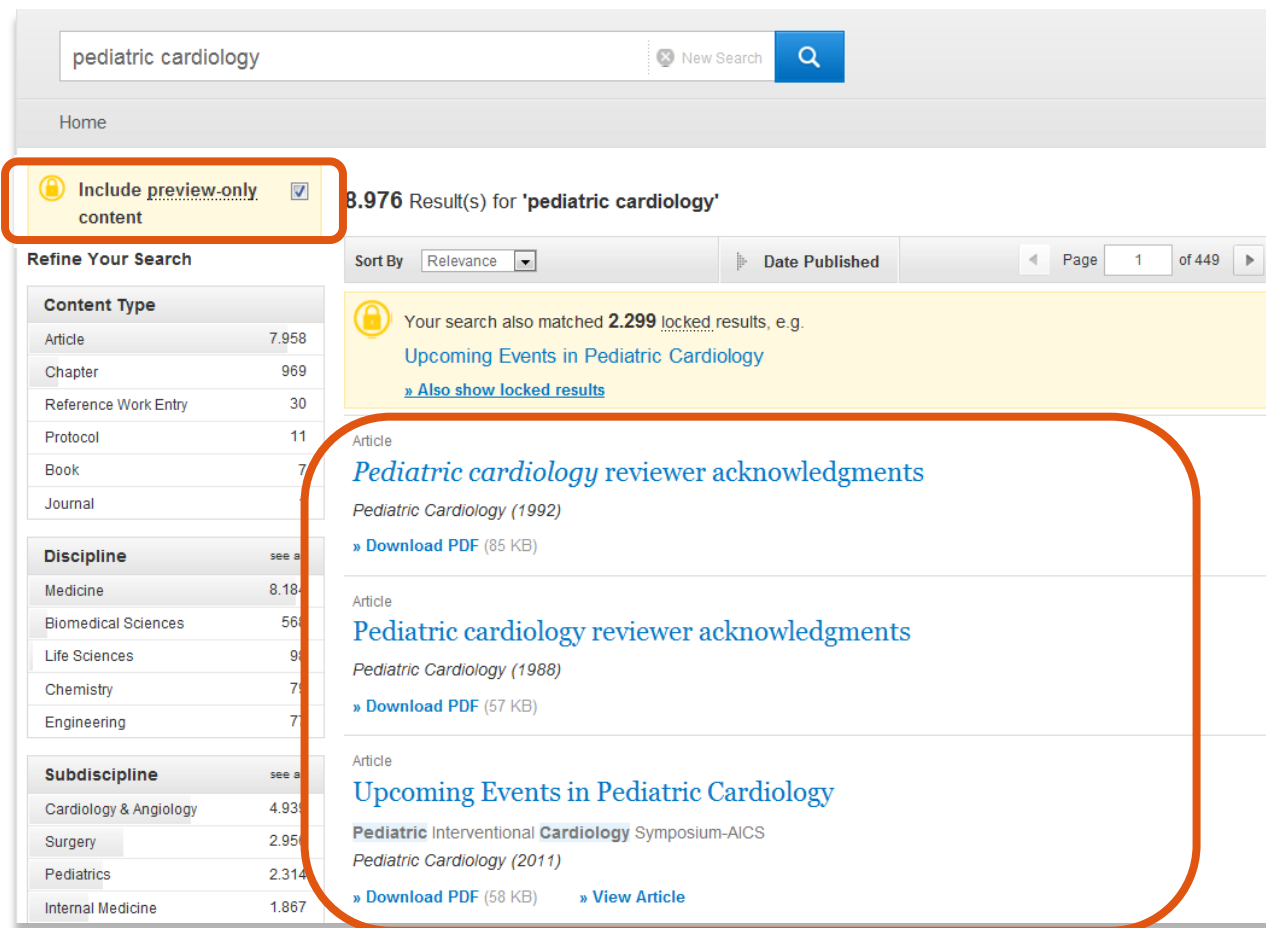
如果您点击某个学科，您将会进入到该学科的新页面

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



pediatric cardiology

Home

☒ Include preview-only content

8,976 Result(s) for 'pediatric cardiology'

Sort By: Relevance Date Published Page 1 of 449

Your search also matched 2,299 locked results, e.g.
[Upcoming Events in Pediatric Cardiology](#)
[» Also show locked results](#)

Refine Your Search

Content Type

Content Type	Count
Article	7,958
Chapter	969
Reference Work Entry	30
Protocol	11
Book	7
Journal	

Discipline

Discipline	Count
Medicine	8,184
Biomedical Sciences	561
Life Sciences	94
Chemistry	75
Engineering	7

Subdiscipline

Subdiscipline	Count
Cardiology & Angiology	4,934
Surgery	2,954
Pediatrics	2,314
Internal Medicine	1,867

Article
[Pediatric cardiology reviewer acknowledgments](#)
Pediatric Cardiology (1992)
[» Download PDF \(85 KB\)](#)

Article
[Pediatric cardiology reviewer acknowledgments](#)
Pediatric Cardiology (1988)
[» Download PDF \(57 KB\)](#)

Article
[Upcoming Events in Pediatric Cardiology](#)
Pediatric Interventional Cardiology Symposium-AICS
Pediatric Cardiology (2011)
[» Download PDF \(58 KB\)](#) [» View Article](#)

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
(4) 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)
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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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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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Lexikon der Infektionskrankheiten des Menschen (2009)

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



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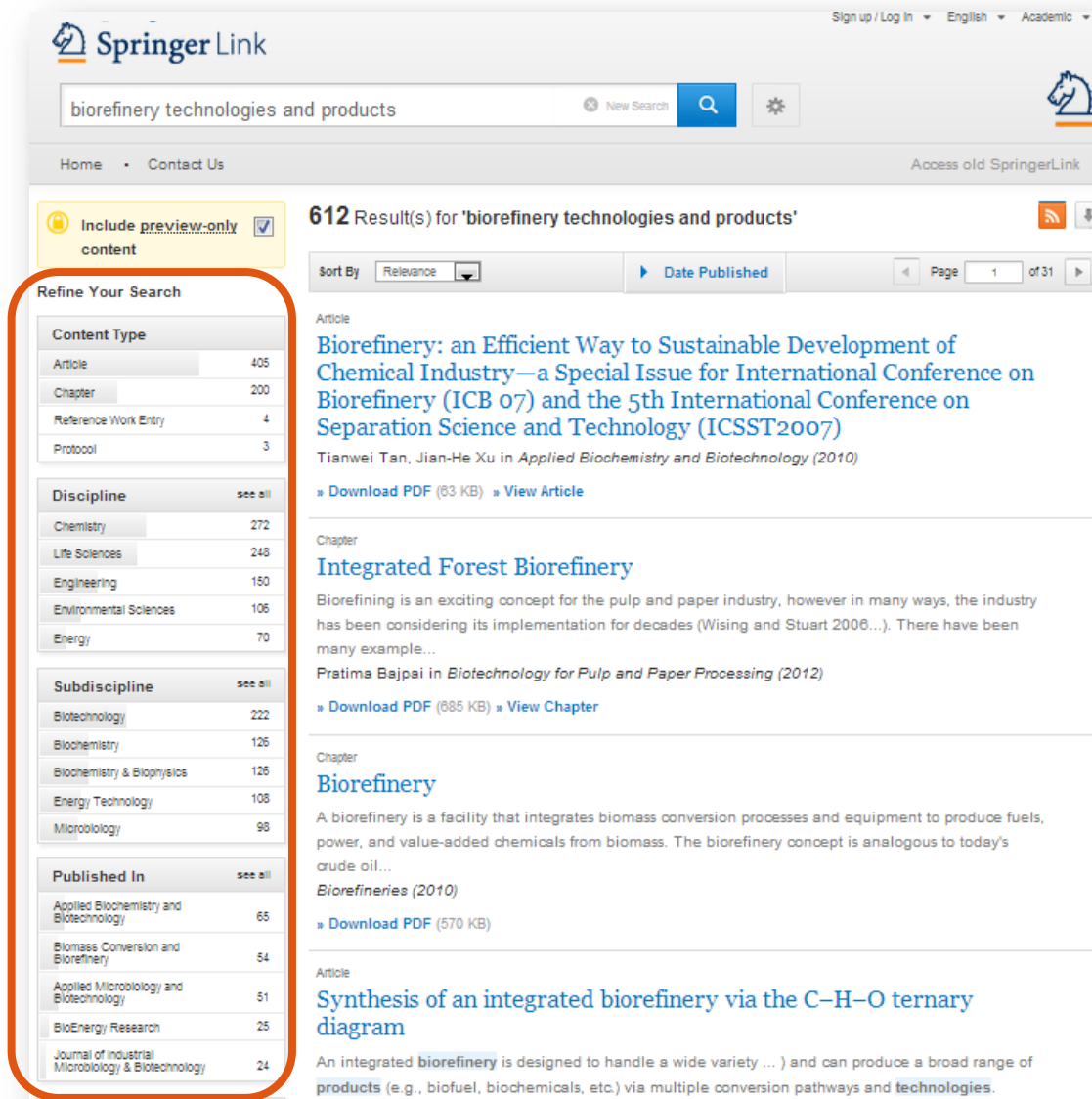
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Biorefinery: an Efficient Way to Sustainable Development of Chemical Industry—a Special Issue for International Conference on Biorefinery (ICB 07) and the 5th International Conference on Separation Science and Technology (ICSST2007)

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

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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...

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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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K. Müntedt in *Der Gynäkologe* (2002)

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...op basis van de gevoeligheid voor meticilline in meticilline-gevoelige (MSSA) en meticilline-resistente (MRSA)
dr. E.E. Stobberingh in *Vademecum permanente nascholing huisartsen (2006)*

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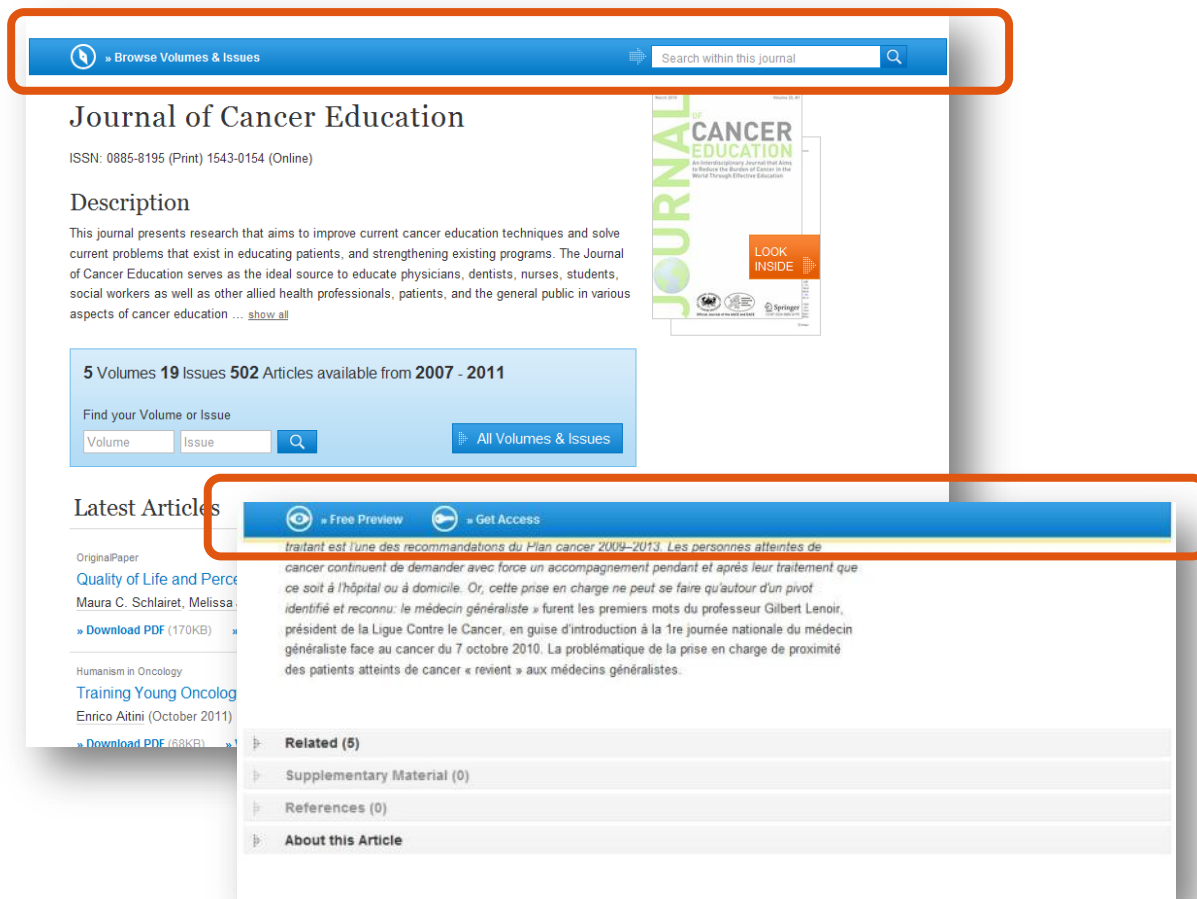
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Onder Suvak, Alper Demir

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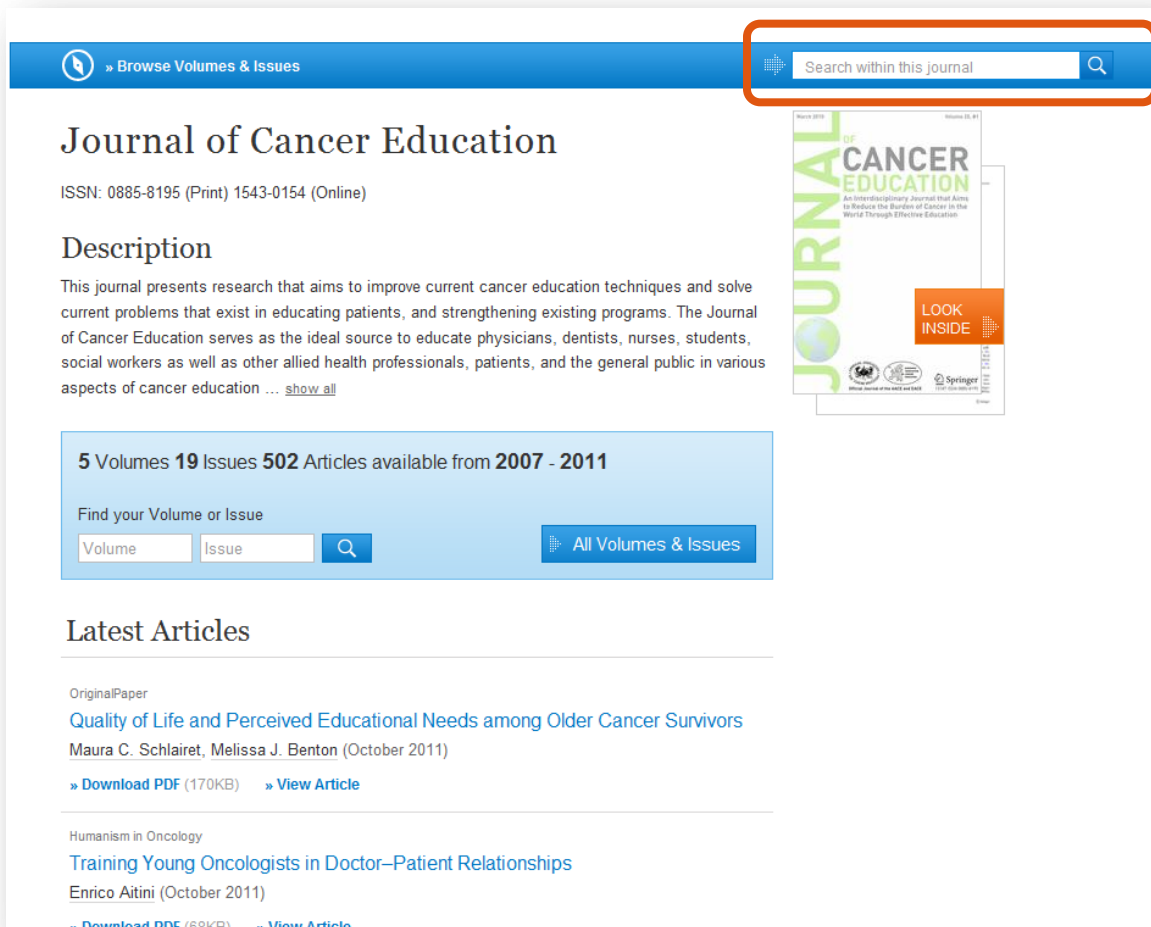


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 - Article 1:** 'A Unique Interactive Cognitive Behavioral Training Program for Front-Line Cancer Care Professionals'. The abstract mentions that for between one third and one half of all cancer survivors, disturbances in mood and cognition do not end with the conclusion of treatment. The authors are Karen Clark, Paul Greene, Kate DuHamel, and Matthew Loscalzo, published in *Journal of Cancer Education* (2012). Links for 'Download PDF (233 KB)' and 'View Article' are provided.
 - Article 2:** 'Improving the Quality of Care for the Hospitalized Tobacco User—One Institution's Transformational Journey'. The abstract mentions that hospitalization represents an ideal time to address tobacco cessation. The authors are Stephen K. Liu, Ellen Prior, Colleen Warren, and Teresa Brown, published in *Journal of Cancer Education* (2010). Links for 'Download PDF (144 KB)' and 'View Article' are provided.

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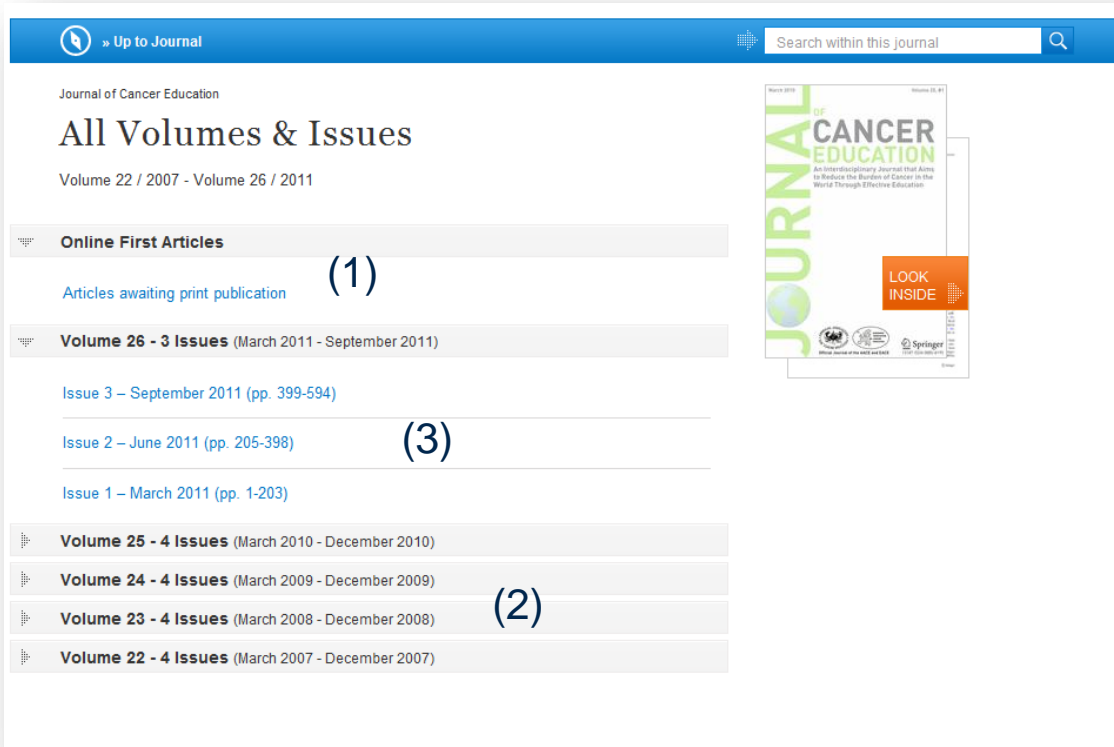
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Journal of Cancer Education

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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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March 2003, 5:120

Degeneration of the intervertebral disc (5)

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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.

Within this Article:

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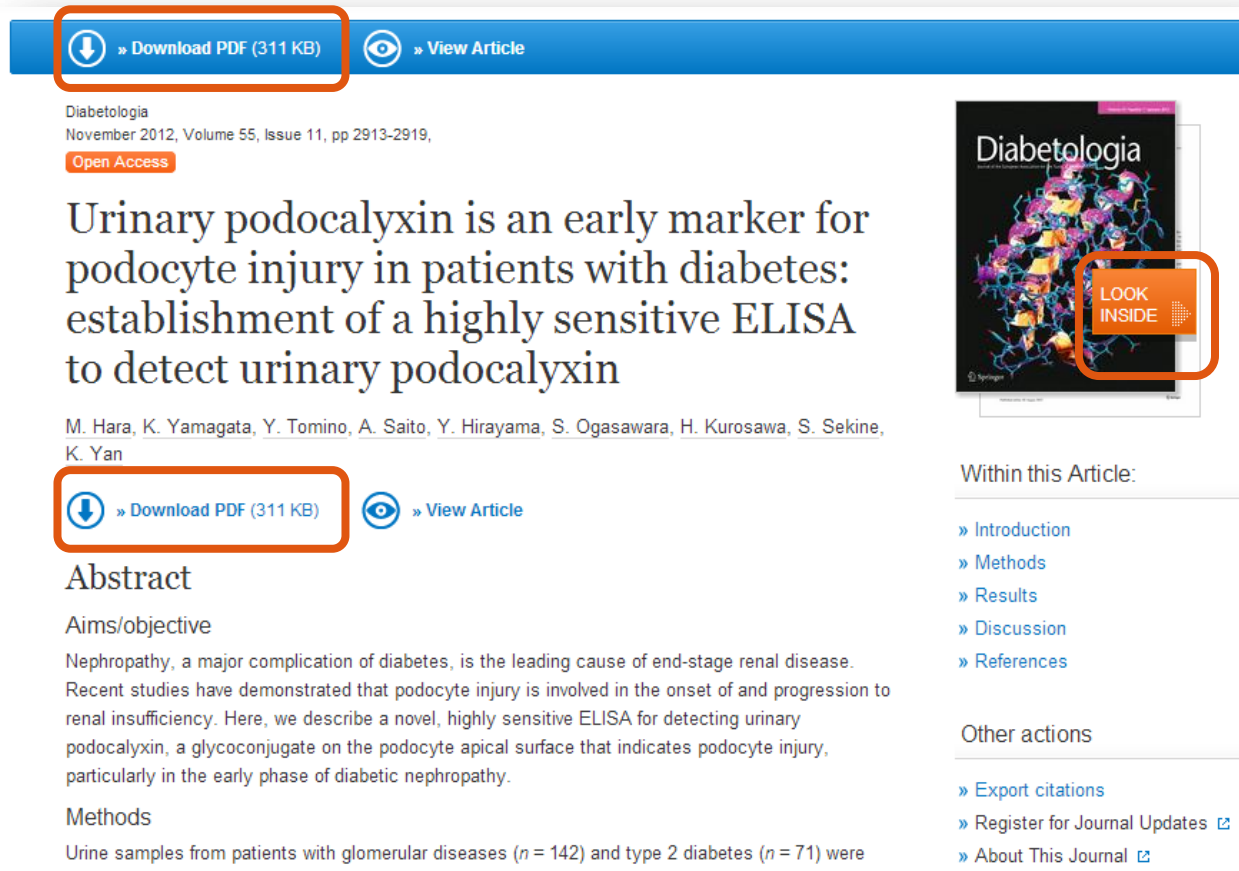
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November 2012, Volume 55, Issue 11, pp 2913-2919,
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Urinary podocalyxin is an early marker for podocyte injury in patients with diabetes: establishment of a highly sensitive ELISA to detect urinary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

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

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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

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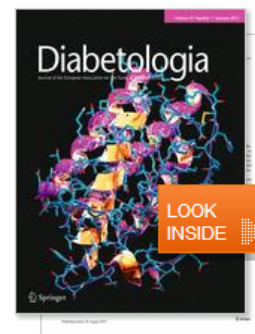
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Methods

Urine samples from patients with glomerular diseases ($n = 142$) and healthy controls were analyzed by ELISA. Urinary podocalyxin levels were significantly higher in patients with glomerular diseases than in healthy controls.




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Diabetologia
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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

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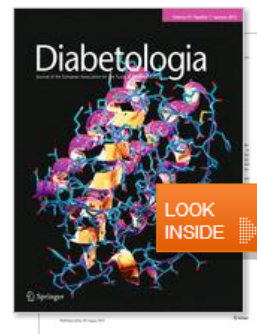
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Aline A. da Cunha, Andréa G. K. Ferreira, Maira J. da Cunha, Carolina D. Pederzoli, Débora L. Becker, Juliana G. Coelho, Carlos S. Dutra-Filho, Angela T. S. Wyse

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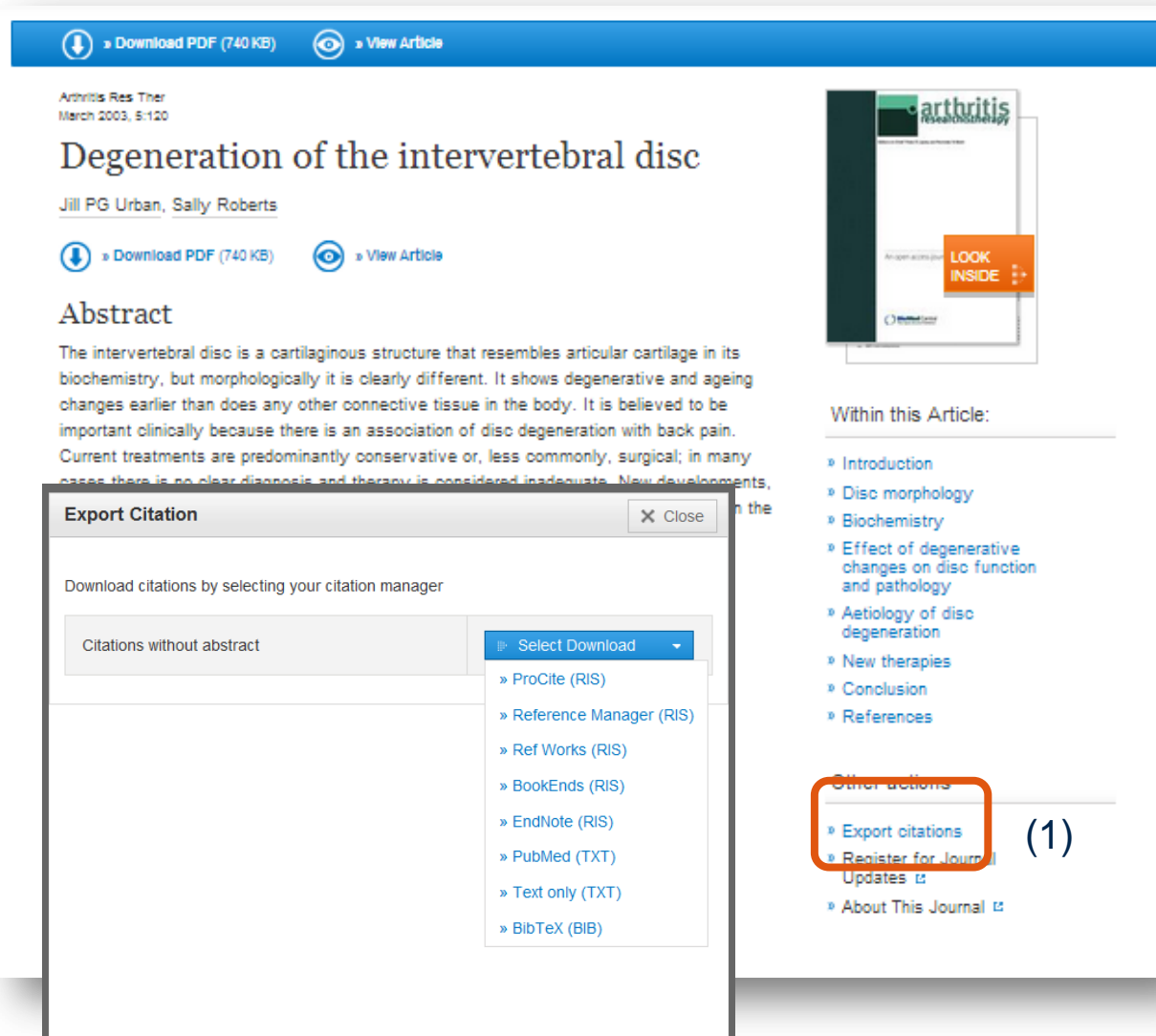
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Urinary podocalyxin is an early marker for podocyte injury in patients with diabetes: establishment of a highly sensitive ELISA to detect urinary podocalyxin

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

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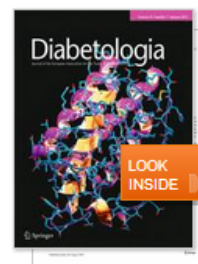
Aims/objective

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.

Conclusions/interpretation

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

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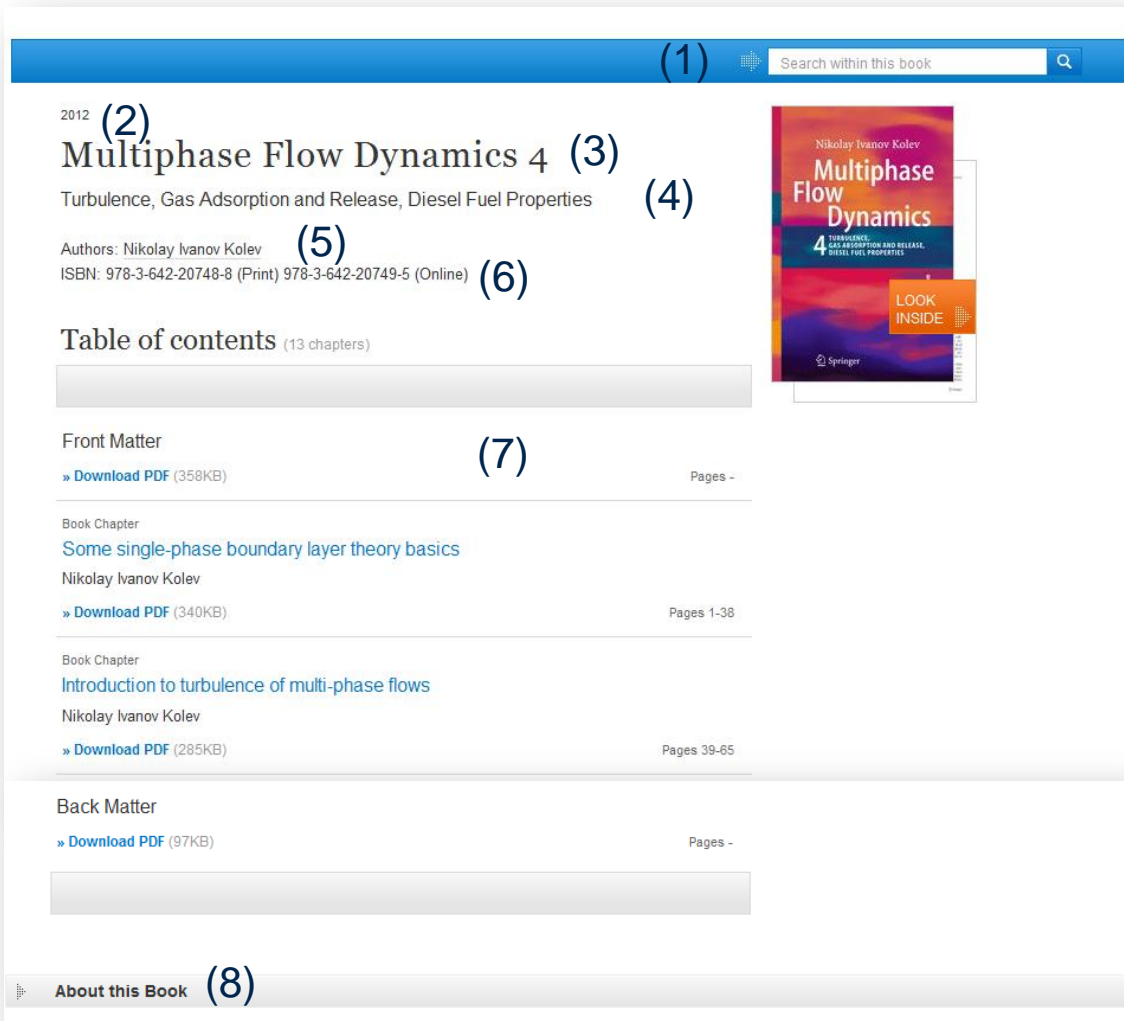
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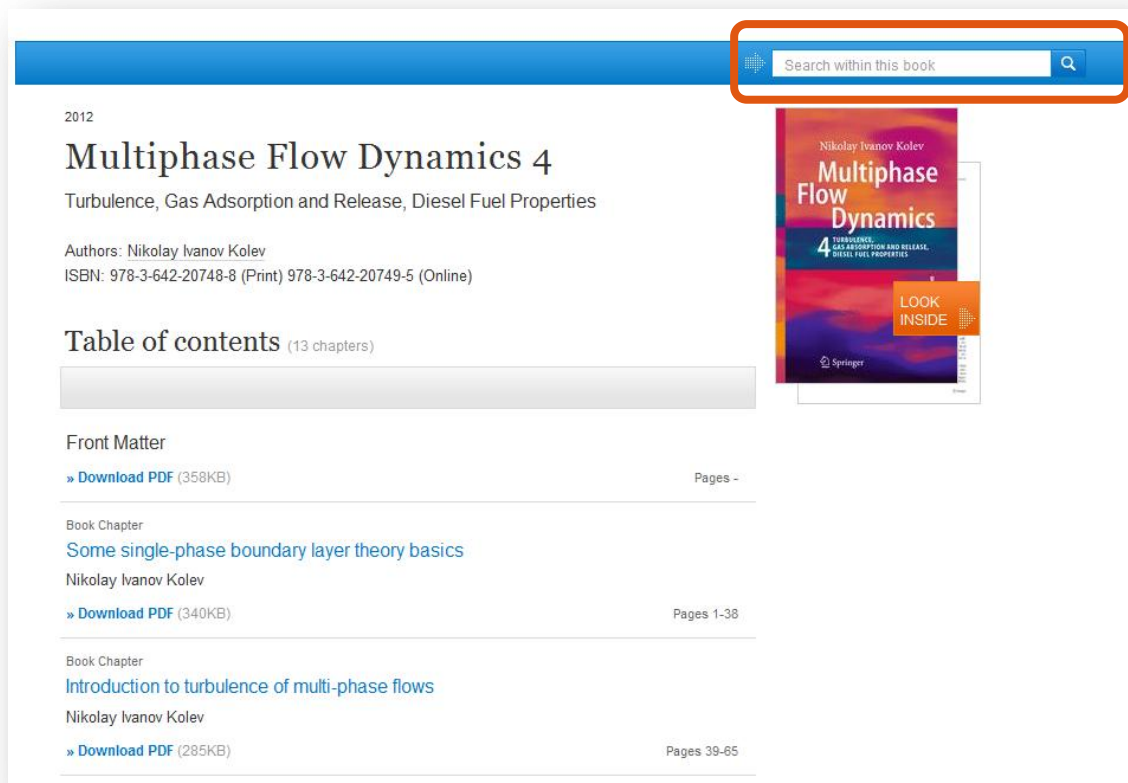
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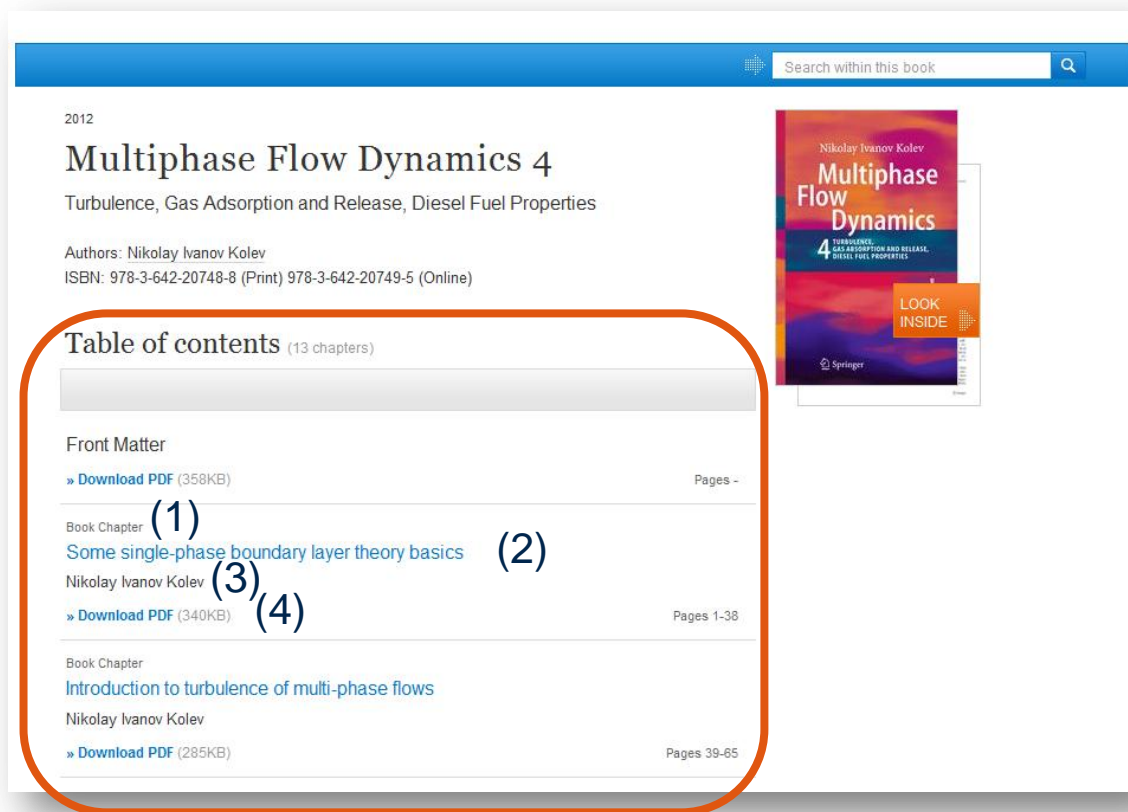
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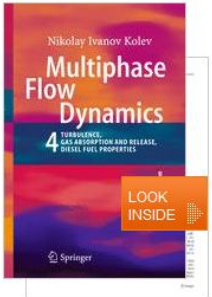
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Volume 1 2012

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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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