

The screenshot shows the SpringerLink website. At the top left, the address bar displays 'link.springer.com', which is highlighted by an orange box. A callout bubble points to this box with the text 'URL: link.springer.com'. The website header features the SpringerLink logo, a search bar, and navigation links for 'Sign up / Log in', 'English', and 'Academic'. Below the header, there is a navigation bar with 'Home' and 'Contact Us' links, and a link to 'Access old SpringerLink'. The main content area is divided into two columns. The left column, titled 'Browse by discipline', lists various scientific fields with expandable arrows. The right column features a large text block stating 'Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.' Below this text are two book covers: 'EPJ C Particles and Fields' and 'Model-Based Testing of Reactive Systems'. To the right of the book covers is a purple box with the text 'New books and journals are available every day.' At the bottom of the page, there is a section titled 'Recent Activity' with a sub-header 'What's being read within your organisation'.

link.springer.com

URL: link.springer.com

Sign up / Log in English Academic

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

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

EPJ C
Particles and Fields

Model-Based Testing of Reactive Systems
Advanced Lectures

New books and journals are available every day.

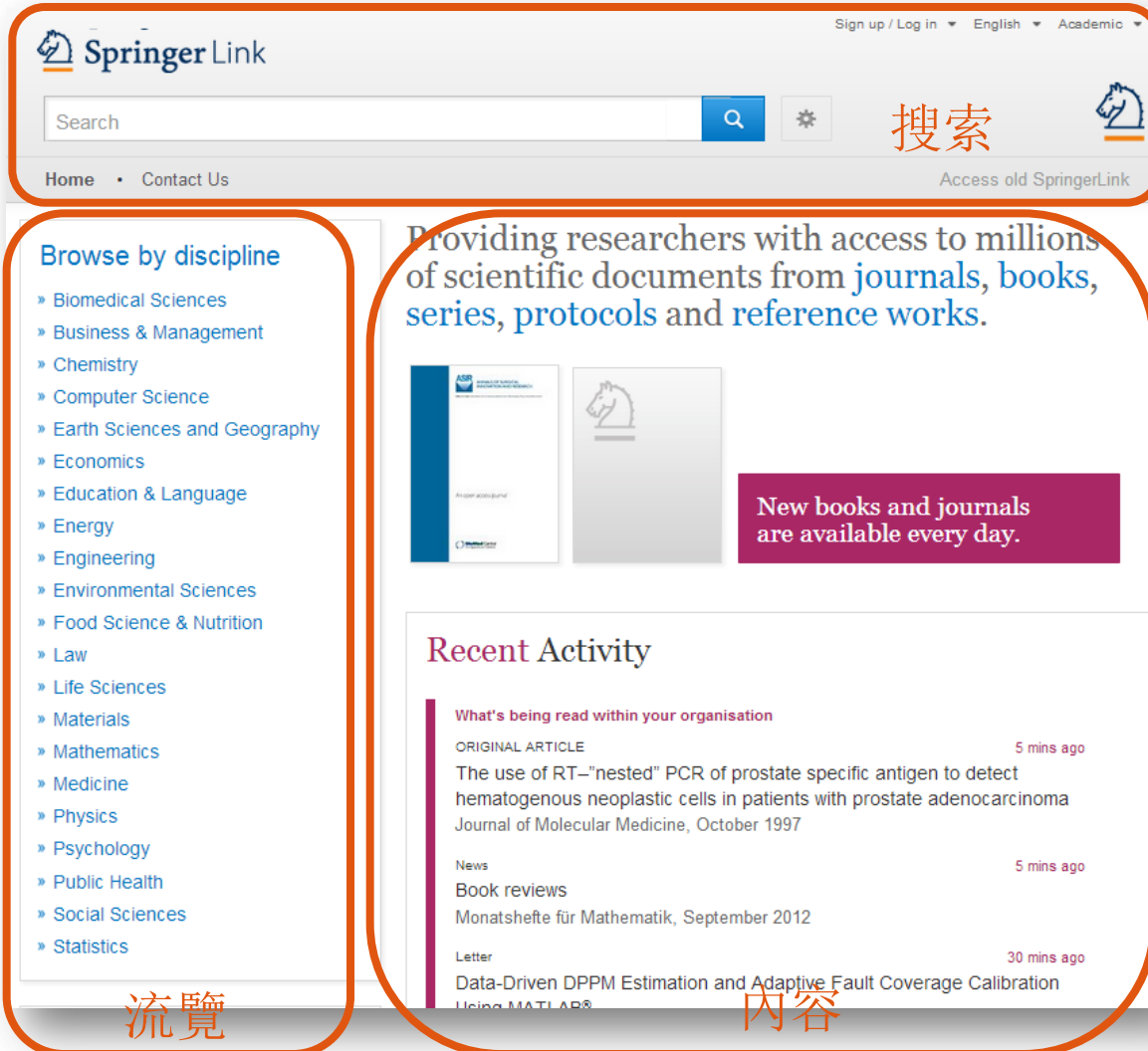
Recent Activity

What's being read within your organisation

首頁

- 3個部分: 搜索-瀏覽-內容
- 以不同的顏色來識別用戶或匿名使用者
- 具有可識別功能
- 匿名使用者
- 公司用戶
- 公司標識
- 搜索功能
- 依行業別瀏覽
- 依內容別瀏覽

首頁



The screenshot shows the SpringerLink homepage. The top navigation bar includes the SpringerLink logo, a search bar with a magnifying glass icon, a settings gear icon, and the Chinese word '搜索' (Search). Below the search bar are links for 'Home' and 'Contact Us', and a link to 'Access old SpringerLink'. The main content area is divided into three sections: 'Browse by discipline' on the left, a central banner for 'Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.', and 'Recent Activity' on the right. The 'Browse by discipline' section lists various fields of study. The central banner features a book cover and a chess knight icon, with a purple box stating 'New books and journals are available every day.' The 'Recent Activity' section lists recent publications, including an original article, news, book reviews, and a letter, each with a timestamp.

Springer Link

Sign up / Log in English Academic

Search 搜索

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

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

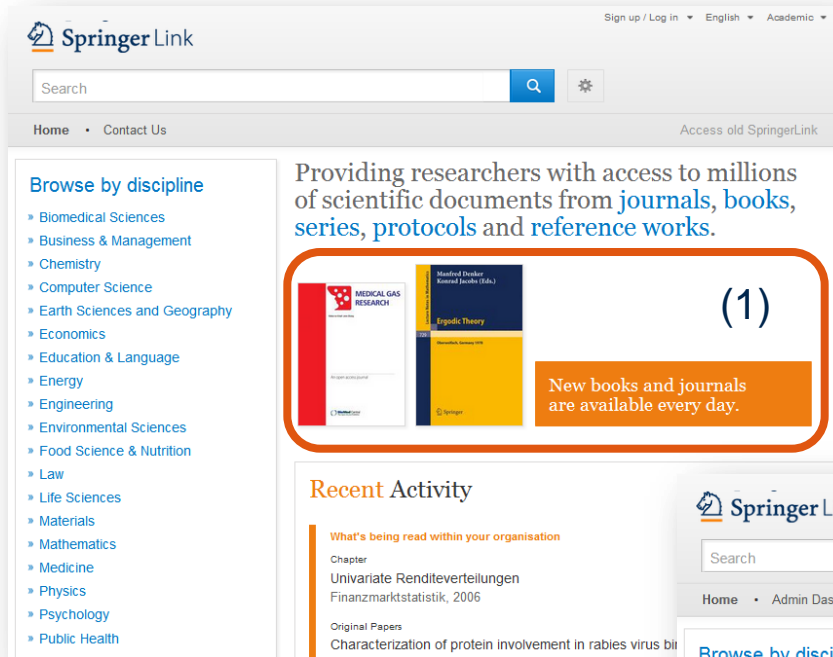
News 5 mins ago
Book reviews
Monatshefte für Mathematik, September 2012

Letter 30 mins ago
Data-Driven DPPM Estimation and Adaptive Fault Coverage Calibration Using MATLAB®

首頁分成三個部分：

- 搜索功能
- 瀏覽功能
- 根據您的個人資料提供的相關內容

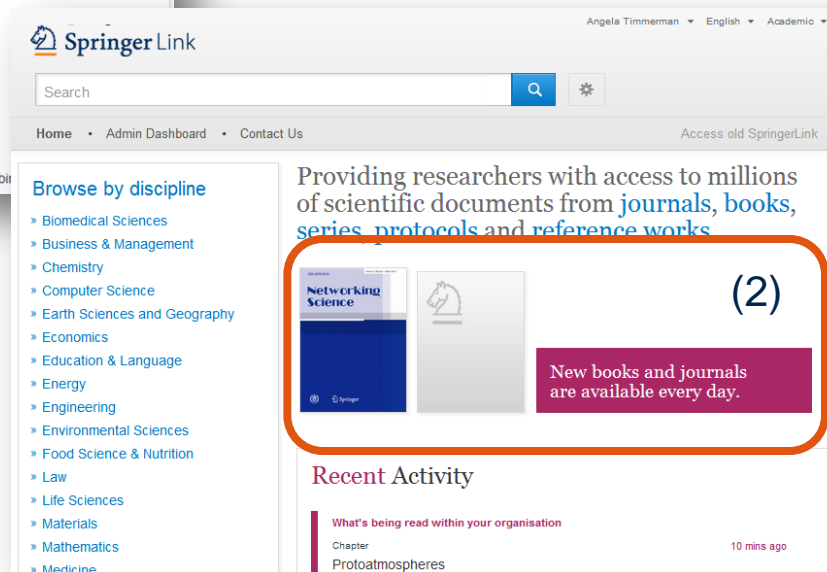
首頁



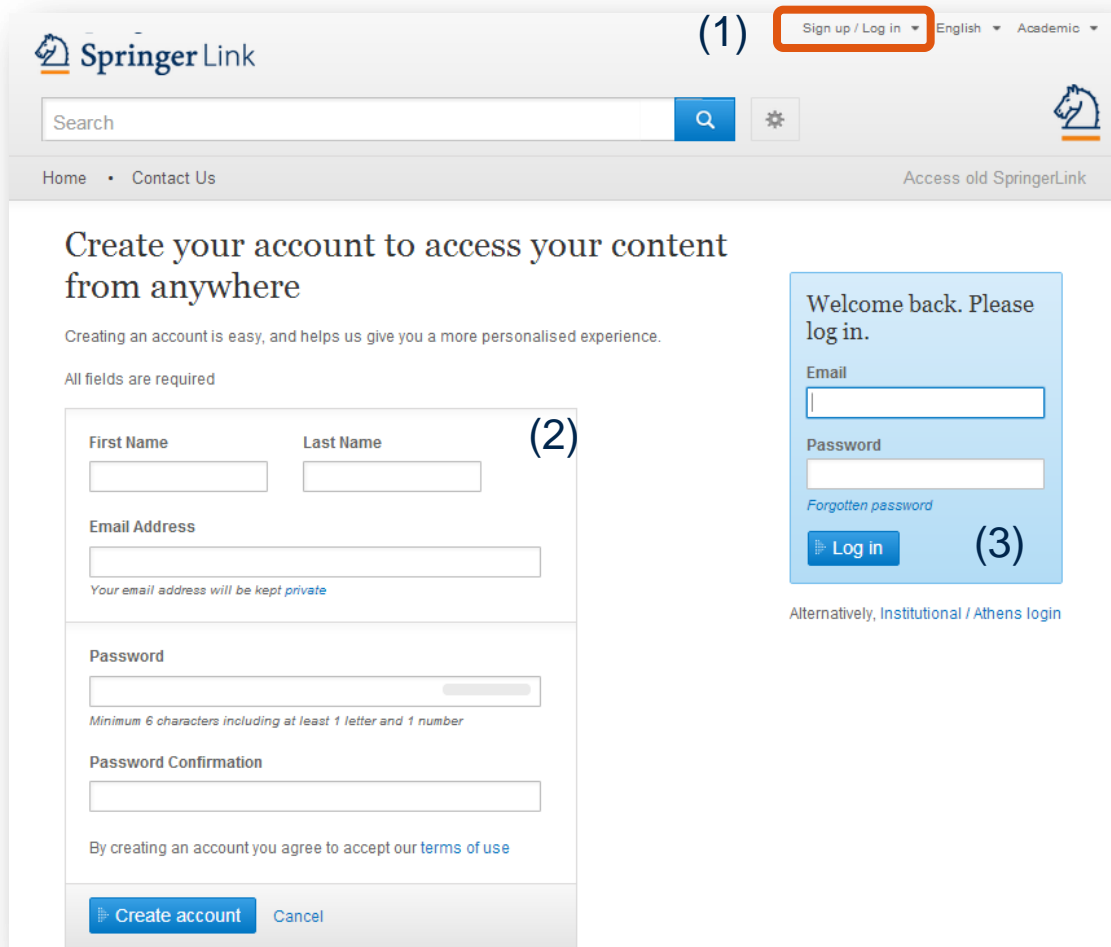
內容區域

在內容區域內會按顏色識別客戶類別：

1. 橙色代表匿名使用者
2. 粉紅色代表可識別客戶



首頁：可識別用戶 VS 匿名使用者



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 is a main content area with two columns. The left column is titled 'Create your account to access your content from anywhere' and contains a registration form. The right column is titled 'Welcome back. Please log in.' and contains a login form. The registration form has fields for 'First Name', 'Last Name', 'Email Address', 'Password', and 'Password Confirmation'. The login form has fields for 'Email' and 'Password'. There are also links for 'Forgotten password' and 'Log in'. At the bottom of the login form, there is a link for 'Alternatively, Institutional / Athens login'.

(1) Sign up / Log in

Search

Home • Contact Us

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

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

Alternatively, Institutional / Athens login

(2)

(3)

識別功能

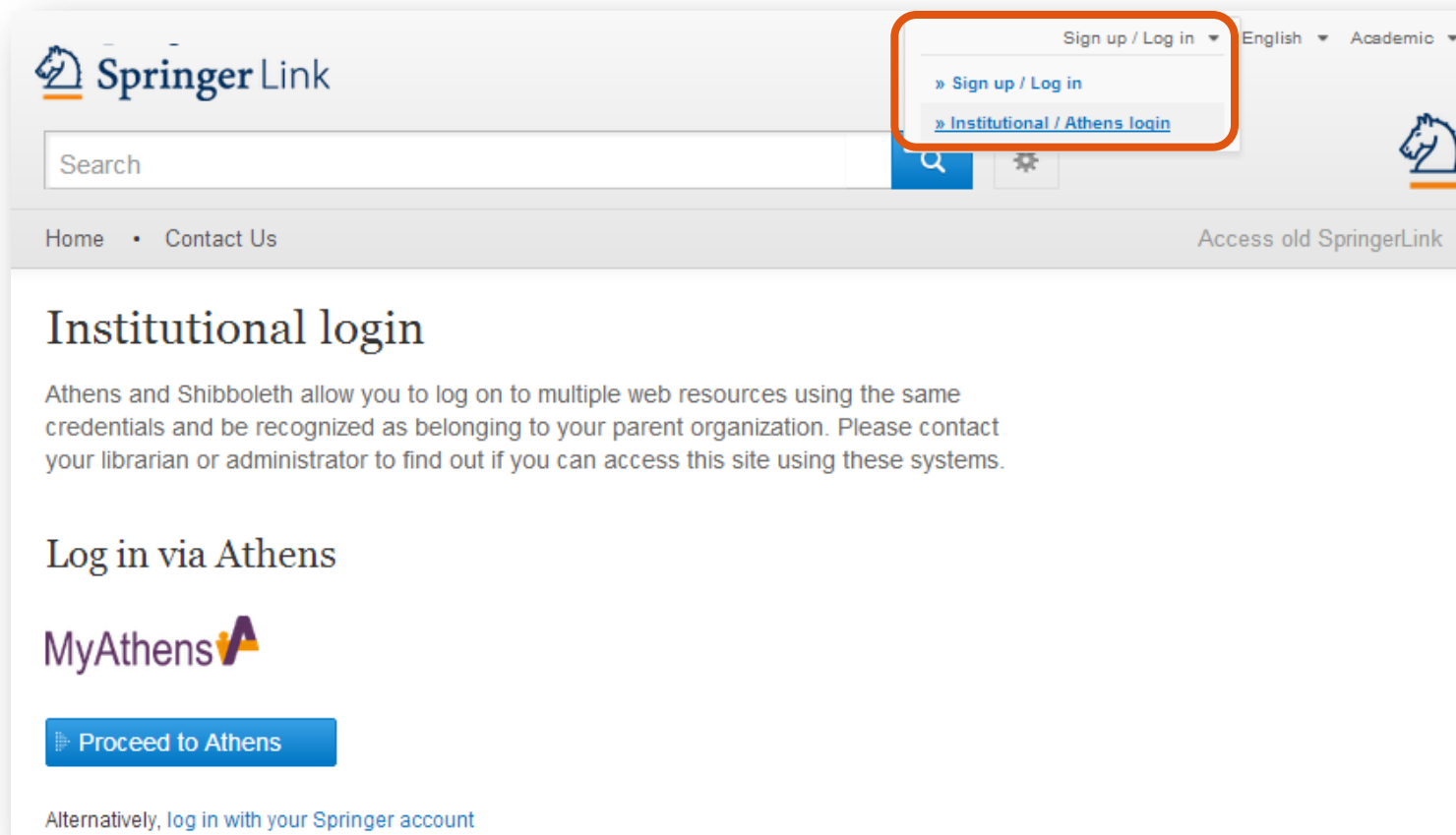
當某用戶在可識別的IP範圍內登入<http://link.springer.com>

時，該用戶將自動識別為該機構的一部分

同時，使用者登入時所用的電郵和密碼也可以進行識別：

1. 點擊註冊/登錄（Sign Up/Login）
2. 註冊並建立帳戶（Sign up to create an account）
3. 或者在任何地點登入到您的收藏頁面

機構 / Athens 登錄



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 MyAthens 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

首頁-匿名使用者

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

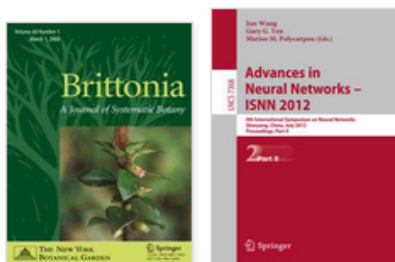
匿名使用者:

如果您匿名登入，“活動”
(Activity) 將顯示為橙色

在該區域中，您將獲得所有
最近期的下載列表

首頁 – 可識別的機構用戶

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

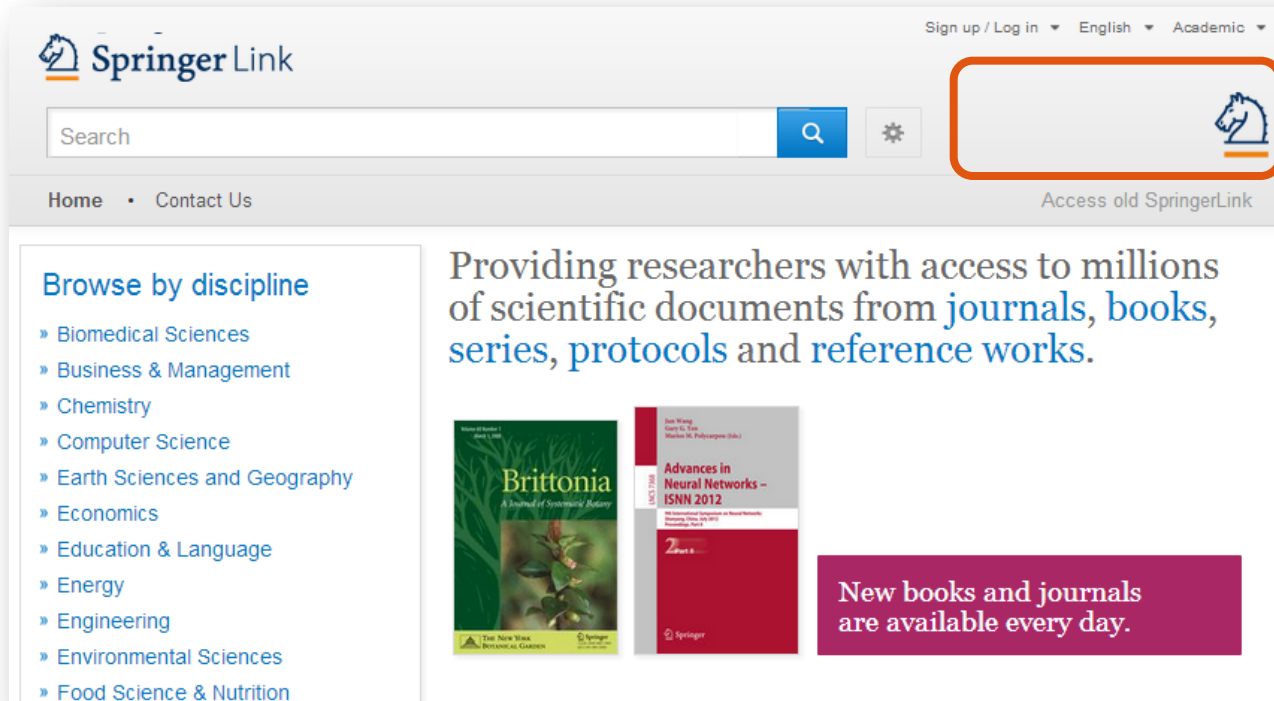
Journal of Gastroenterology, December 2011

機構用戶：

如果您以機構名義登入，“活動”（Activity）將顯示為粉紅色

在該區域內，您將會看到您所在機構最近期的下載列表

機構標識

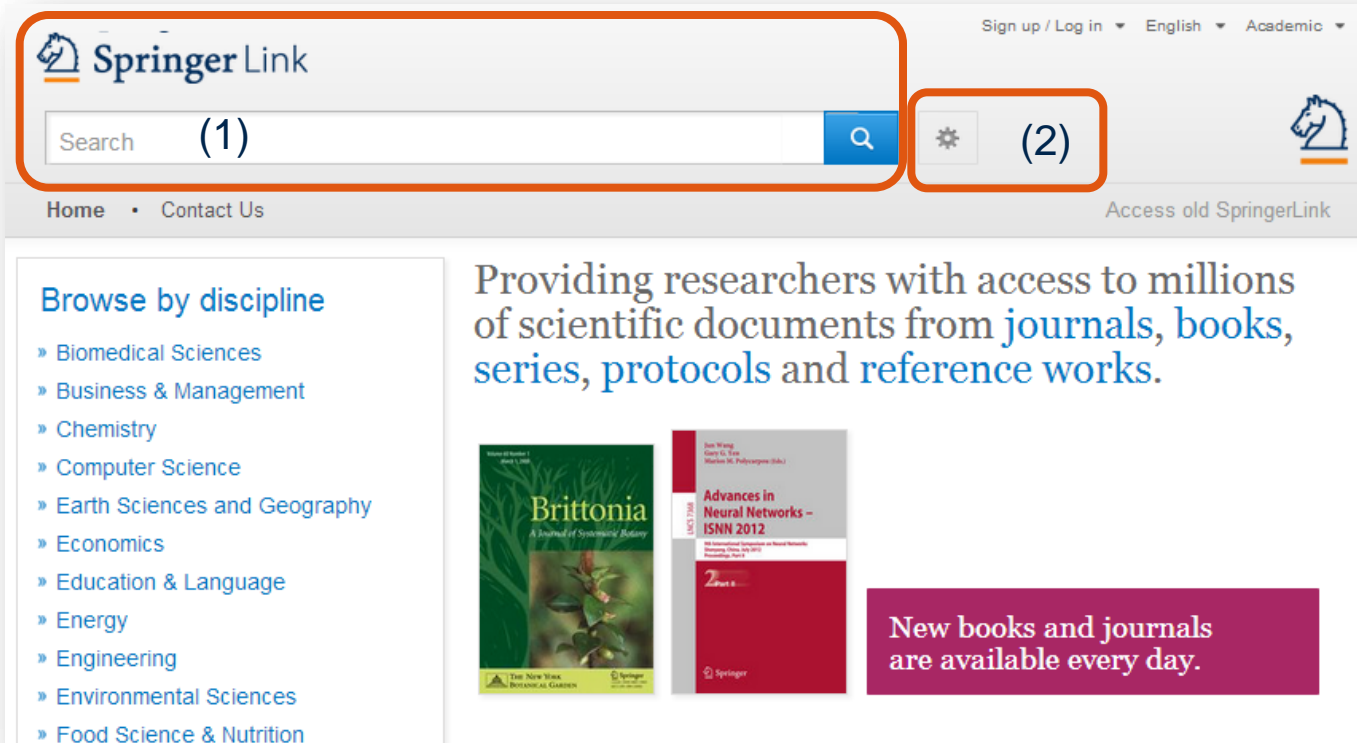


機構標識

對於公司使用者，您可以將該公司的標識加入到Springer網站首頁

SpringerLink資料庫管理員可以進行此操作

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 large text block: 'Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.' Below this text are two book covers: 'Brittonia' and 'Advances in Neural Networks - ISSN 2012'. A purple banner at the bottom right states: 'New books and journals are available every day.' On the left side, there is a 'Browse by discipline' section with a list of categories: Biomedical Sciences, Business & Management, Chemistry, Computer Science, Earth Sciences and Geography, Economics, Education & Language, Energy, Engineering, Environmental Sciences, and Food Science & Nutrition.

Search (1)

Settings (2)

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

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

Brittonia
A Journal of Systematic Botany

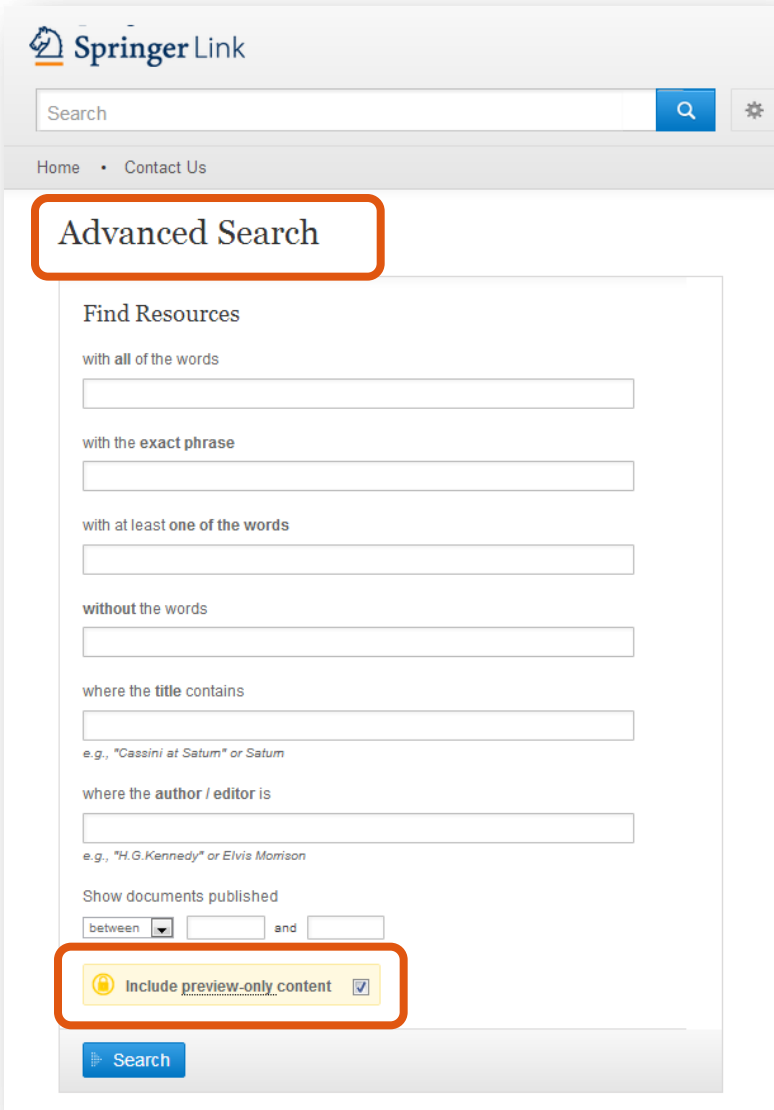
Advances in Neural Networks - ISSN 2012

New books and journals are available every day.

搜索:

1. 大多數使用者通過搜索功能瀏覽我們的內容，因此在首頁上搜索功能是最明顯和最突出的
2. 同時首頁還提供進階搜索和幫助搜索

進階搜索選項



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 filters. These include "Find Resources" with options for "with all of the words", "with the exact phrase", "with at least one of the words", and "without the words". There are also filters for "where the title contains" and "where the author / editor is". At the bottom, there is a section for "Show documents published" with a "between" dropdown and two input fields for dates. A checkbox labeled "Include preview-only content" is checked. A "Search" button is located at the bottom right of the form.

Springer Link

Search

Home • Contact Us

Advanced Search

Find Resources

with all of the words

with the exact phrase

with at least one of the words

without the words

where the title contains

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

where the author / editor is

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

Show documents published

between and

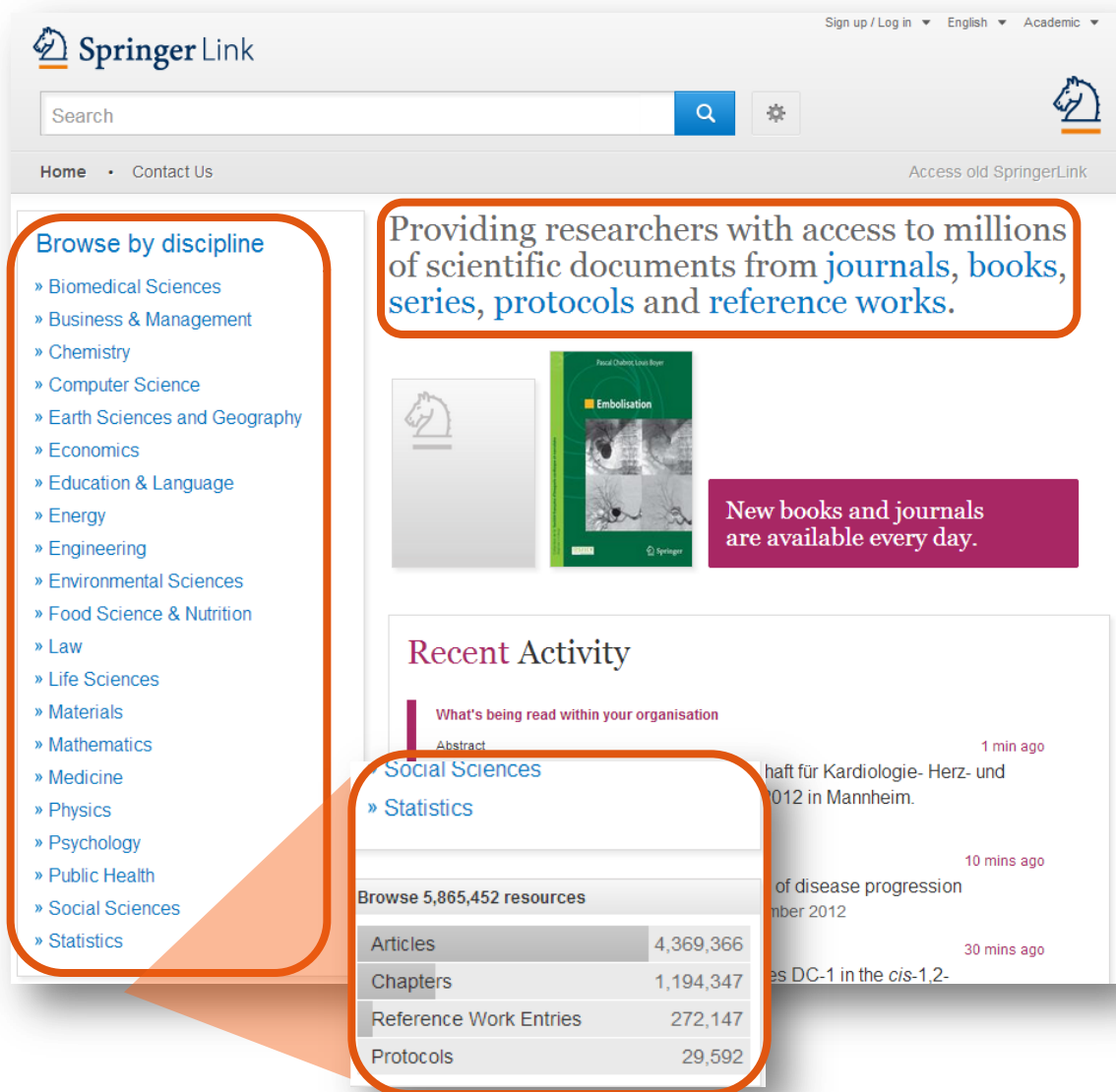
☒ Include preview-only content

Search

使用者可以通過使用進階搜索選項進一步縮小搜索範圍

用戶也可以限定在該機構的存取權限內搜索

瀏覽



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 of resource counts is highlighted with an orange box.

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

瀏覽：

在頁面左方的框中，瀏覽功能按學科分類

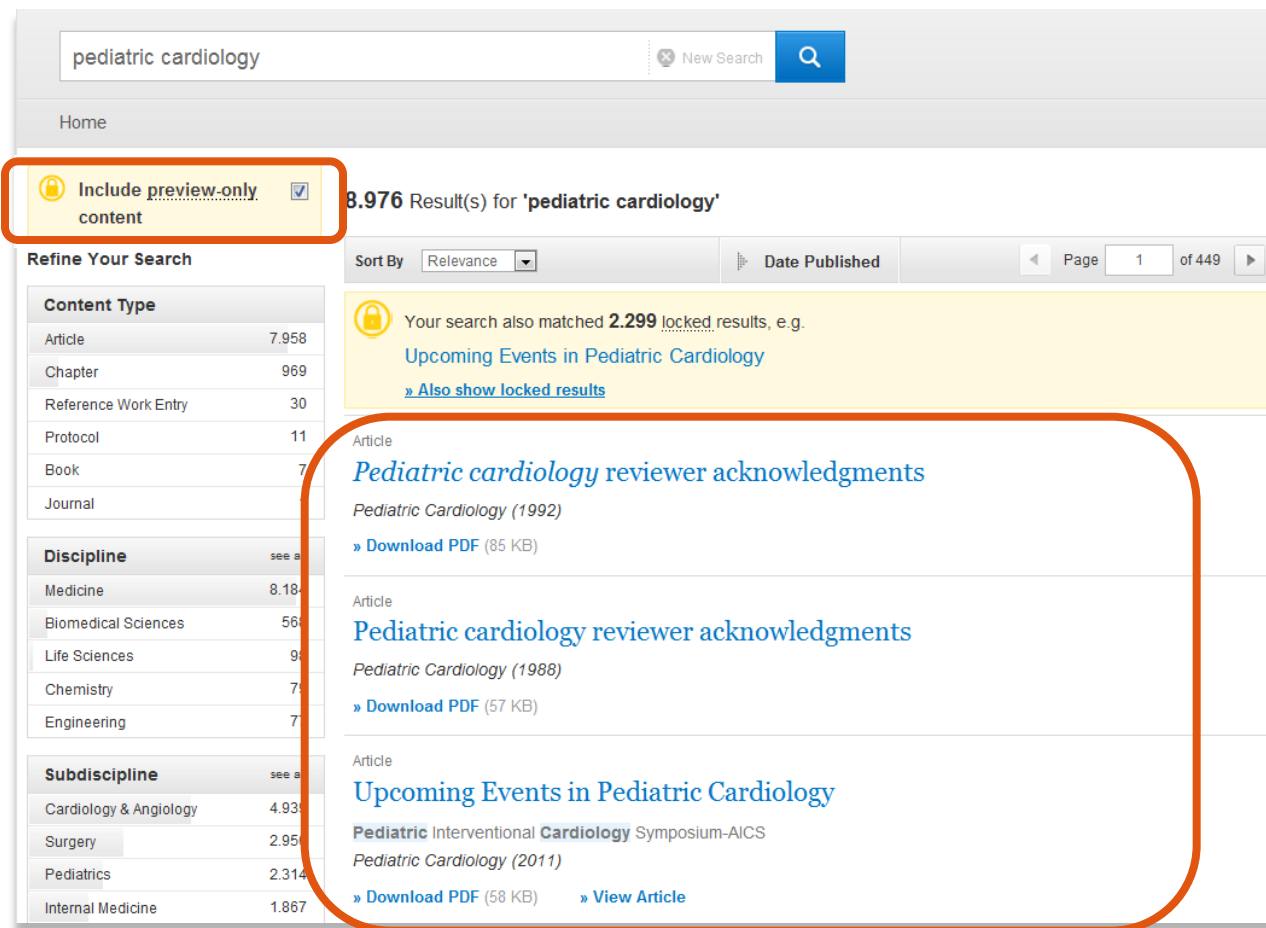
如果您點擊某個學科，您將會進入到該學科的新頁面

您也可以按內容的類型來瀏覽

在學科導航框的下方，您可以找到詳細的內容類別：

- （期刊）文章
- 參考文獻
- （圖書）章節
- 實驗室指南

搜索結果頁面



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](#)

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	56
Life Sciences	9
Chemistry	7
Engineering	7

Subdiscipline

Subdiscipline	Count
Cardiology & Angiology	4,93
Surgery	2,95
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](#)

搜索結果：


您可以在頁面右下角找到搜索結果列表

在預設情況下，將只顯示許可權範圍內的搜索結果

如果您想看許可權以外的搜索結果，您可以勾選黃色區域內的過濾選項，被鎖住的內容也會被列出來

搜索結果頁面

(2)

 Include preview-only content ☒

Refine Your Search

Content Type

Article	9.880
Chapter	1.338
Reference Work Entry	32
Protocol	16
Book	8
Journal	1

Discipline [see all](#)


Medicine	8.301
Biomedical Sciences	581
Life Sciences	101
Chemistry	79
Engineering	77

Subdiscipline [see all](#)

Cardiology & Angiology	4.939
Surgery	2.991
Pediatrics	2.329
Internal Medicine	1.905

11.275 Result(s) for 'pediatric cardiology'

Sort By Relevance Date Published Page 1 of 564

 Article No Access

Upcoming Events in Pediatric Cardiology

Pediatric Cardiology (2002)

[» Free Preview](#) [» Get Access](#)


(1)

Article

Pediatric cardiology reviewer acknowledgments

Pediatric Cardiology (1992)

[» Download PDF \(85 KB\)](#)

 Article No Access

Upcoming Events in Pediatric Cardiology

Pediatric Cardiology (2003)

[» Free Preview](#) [» Get Access](#)

Article

Pediatric cardiology reviewer acknowledgments

Pediatric Cardiology (1988)

[» Download PDF \(57 KB\)](#)

搜索結果（僅限預覽）：

1. 預覽結果將以黃色背景顯示
2. 如果您只想看到許可權範圍內的搜索結果，取消黃色框上的勾選

搜索結果頁面

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

搜索結果頁面的清單結構：

1. 內容類別
2. 內容標題
3. 內容描述
4. 所列內容的作者
5. 在何處以何種產品形式出版
6. 全文下載PDF或以HTML格式瀏覽

搜索結果頁面

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)

» [Download PDF](#) (118 KB)

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)

» [Download PDF](#) (57 KB)

Chapter

Community-Acquired MRSA (CA-MRSA)

Lexikon der Infektionskrankheiten des Menschen (2009)

» [Download PDF](#) (85 KB)

Book

Methicillin-Resistant *Staphylococcus aureus* (MRSA) Protocols

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



內容類別

搜索結果將會有以下類型
(1):

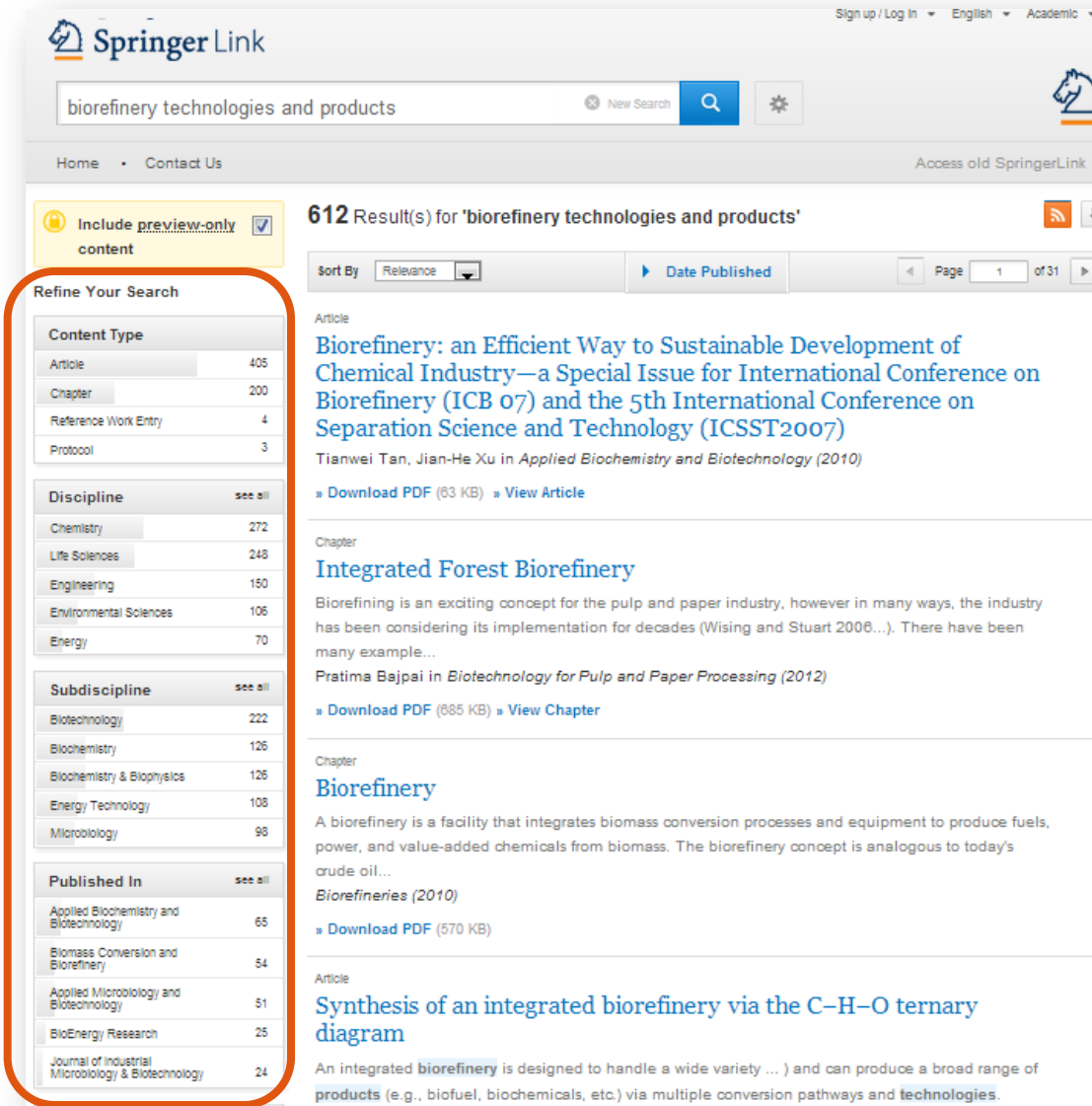
較大的分類:

- 叢書 (圖書)
- 圖書 (章節或指南)
- 期刊 (文章)
- 參考工具書

細分:

- 章節
- 指南
- 文章
- 參考工具書條目

搜索結果頁面



Springer Link

biorefinery technologies and products

Home • Contact Us

Access old SpringerLink

612 Result(s) for 'biorefinery technologies and products'

Sort By: Relevance | Date Published

Page 1 of 31

Refine Your Search

Content Type

Article	405
Chapter	200
Reference Work Entry	4
Protocol	3

Discipline [see all](#)

Chemistry	272
Life Sciences	248
Engineering	150
Environmental Sciences	106
Energy	70

Subdiscipline [see all](#)

Biotechnology	222
Biochemistry	126
Biochemistry & Biophysics	126
Energy Technology	108
Microbiology	98

Published In [see all](#)

Applied Biochemistry and Biotechnology	65
Biomass Conversion and Biorefinery	54
Applied Microbiology and Biotechnology	51
BioEnergy Research	25
Journal of Industrial Microbiology & Biotechnology	24

Article

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)

[Download PDF](#) (83 KB) [View Article](#)

Chapter

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)

[Download PDF](#) (885 KB) [View Chapter](#)

Chapter

Biorefinery

A biorefinery is a facility that integrates biomass conversion processes and equipment to produce fuels, power, and value-added chemicals from biomass. The biorefinery concept is analogous to today's crude oil...

Biorefineries (2010)

[Download PDF](#) (570 KB)

Article

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

An integrated biorefinery is designed to handle a wide variety ...) and can produce a broad range of products (e.g., biofuel, biochemicals, etc.) via multiple conversion pathways and technologies.

過濾選項：

在頁面左方有過濾選項說明您可以優化搜索結果

過濾選項包括：

- 內容類別
- 學科
- 子學科
- 出版於...
- 作者
- 語言

搜索結果頁面

253.840 Result(s) for 'oncology'

Sort By: **Relevance** (dropdown menu) | Date Published | Page 1 of 12.692

Chapter: **Relevance** (dropdown menu) | Newest First | Oldest First

Comprendre le score gériatrique: recommandations de la « Task Force on CGA of the International Society of Geriatric Oncology (SIOG) »

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)

» [Download PDF](#) (111 KB)

Article | No Access

European Society of Gynaecological Oncology (ESGO)

European Society of Gynaecological **Oncology**

K. Müntedt in *Der Gynäkologe* (2002)

» [Free Preview](#) » [Get Access](#)

分類

預設情況下，搜索結果按相關性排序

更多搜索排序選項：

- 按時間順序由新到舊排序
- 按時間順序由舊到新排序

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Chapter

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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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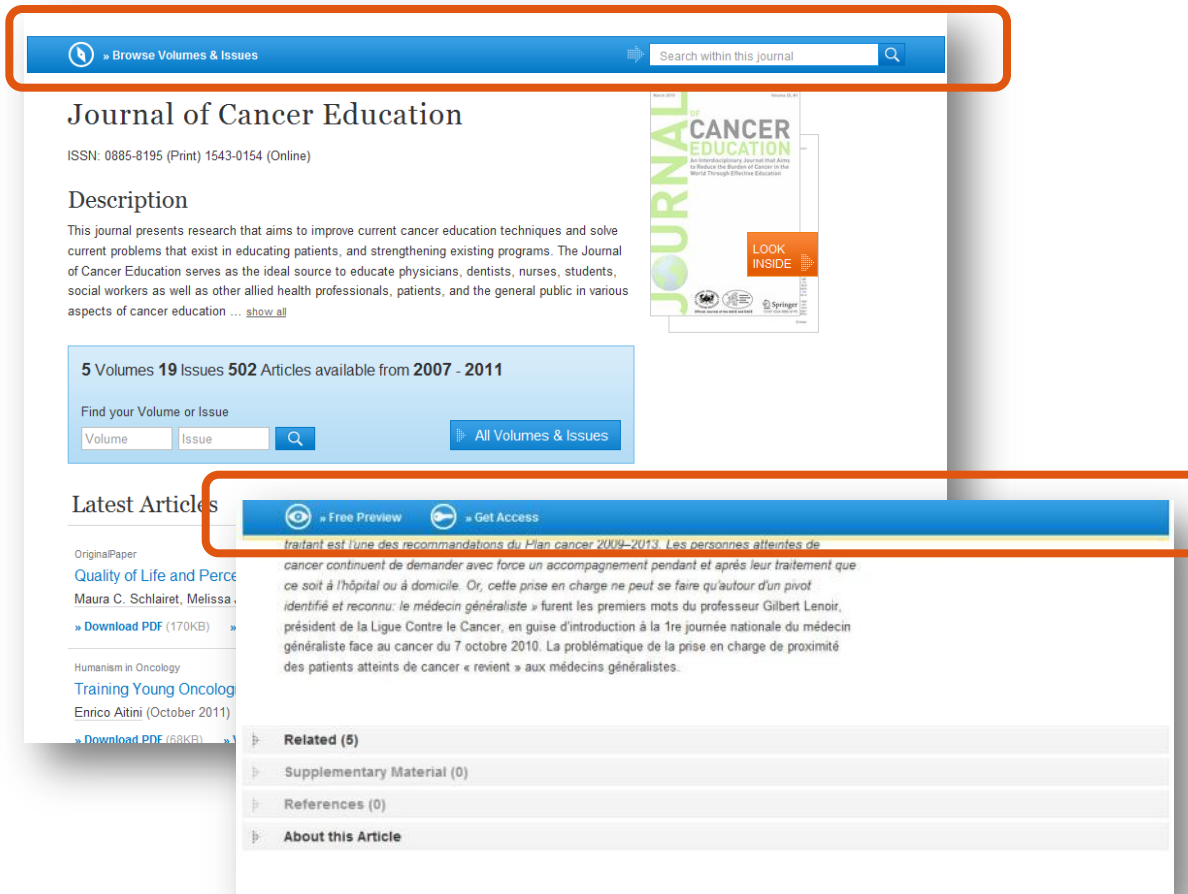
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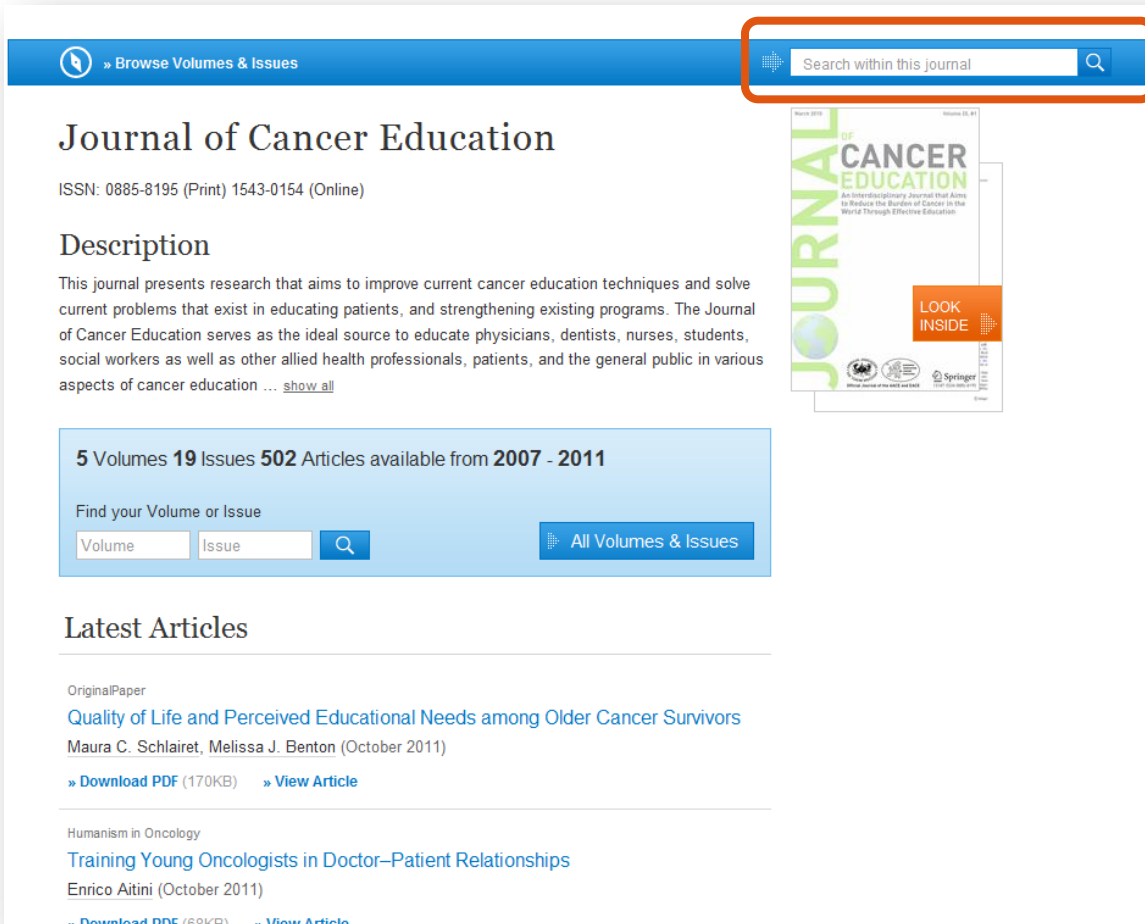



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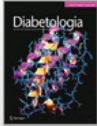

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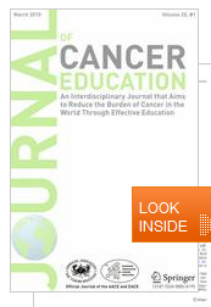
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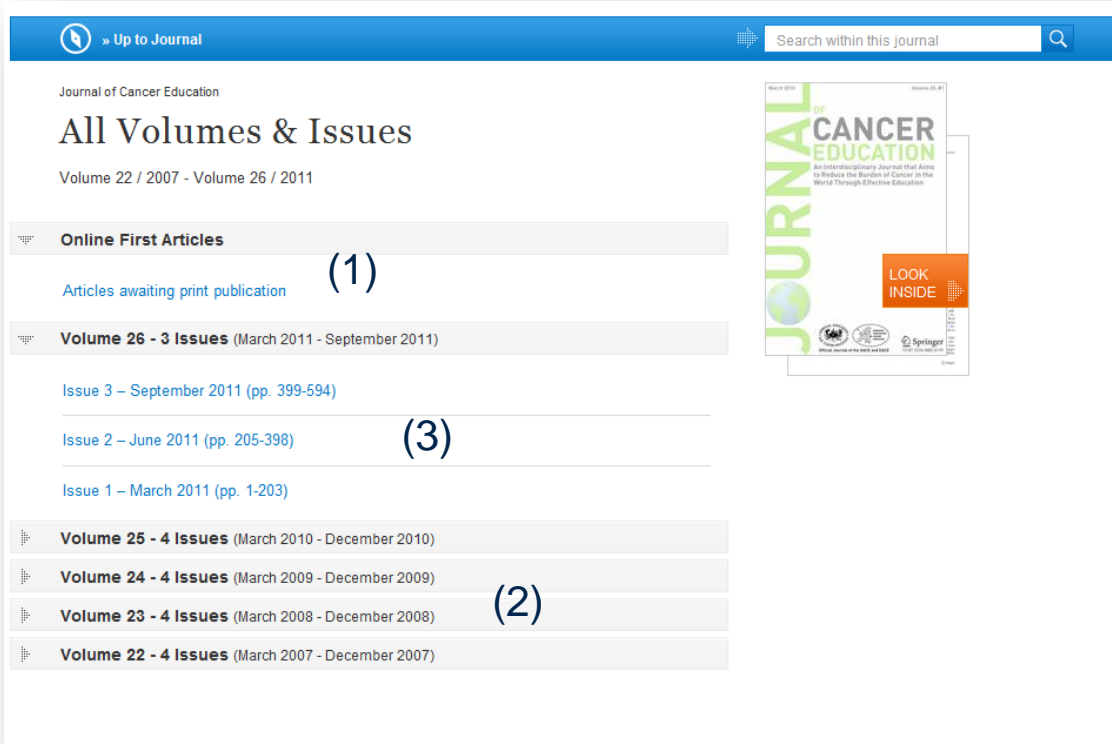
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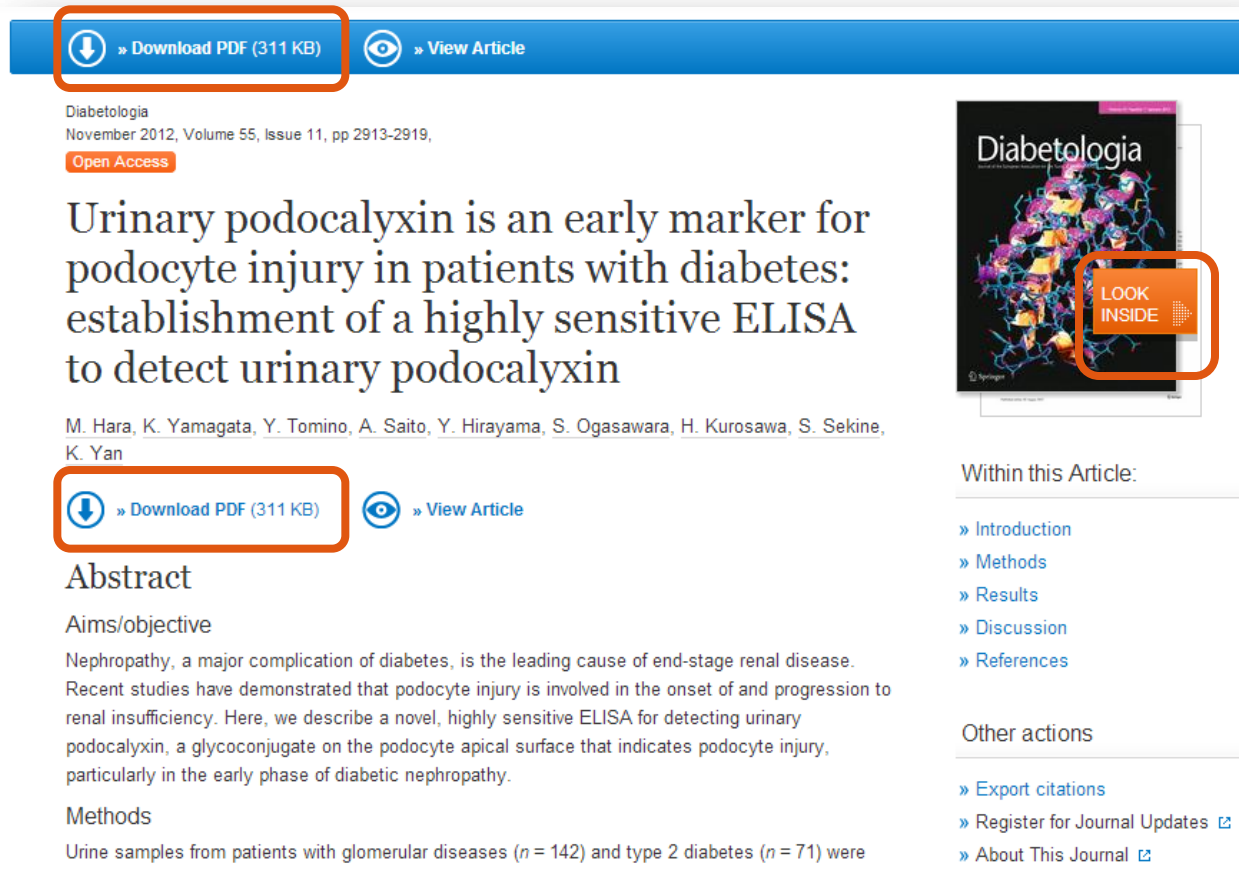
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November 2012, Volume 55, Issue 11, pp 2913-2919,
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Nephropathy, a major complication of diabetes, is the leading cause of end-stage renal disease. Recent studies have demonstrated that podocyte injury 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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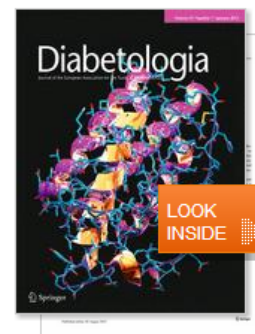
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Methods

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

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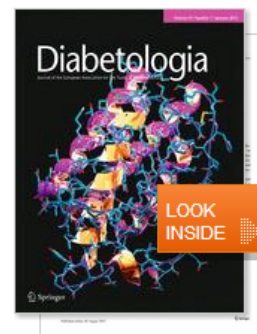
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Aline A. da Cunha, Andréa G. K. Ferreira, Maira J. da Cunha, Carolina D. Pederzoli, Débora L. Becker, Juliana G. Coelho, Carlos S. Dutra-Filho, Angela T. S. Wyse

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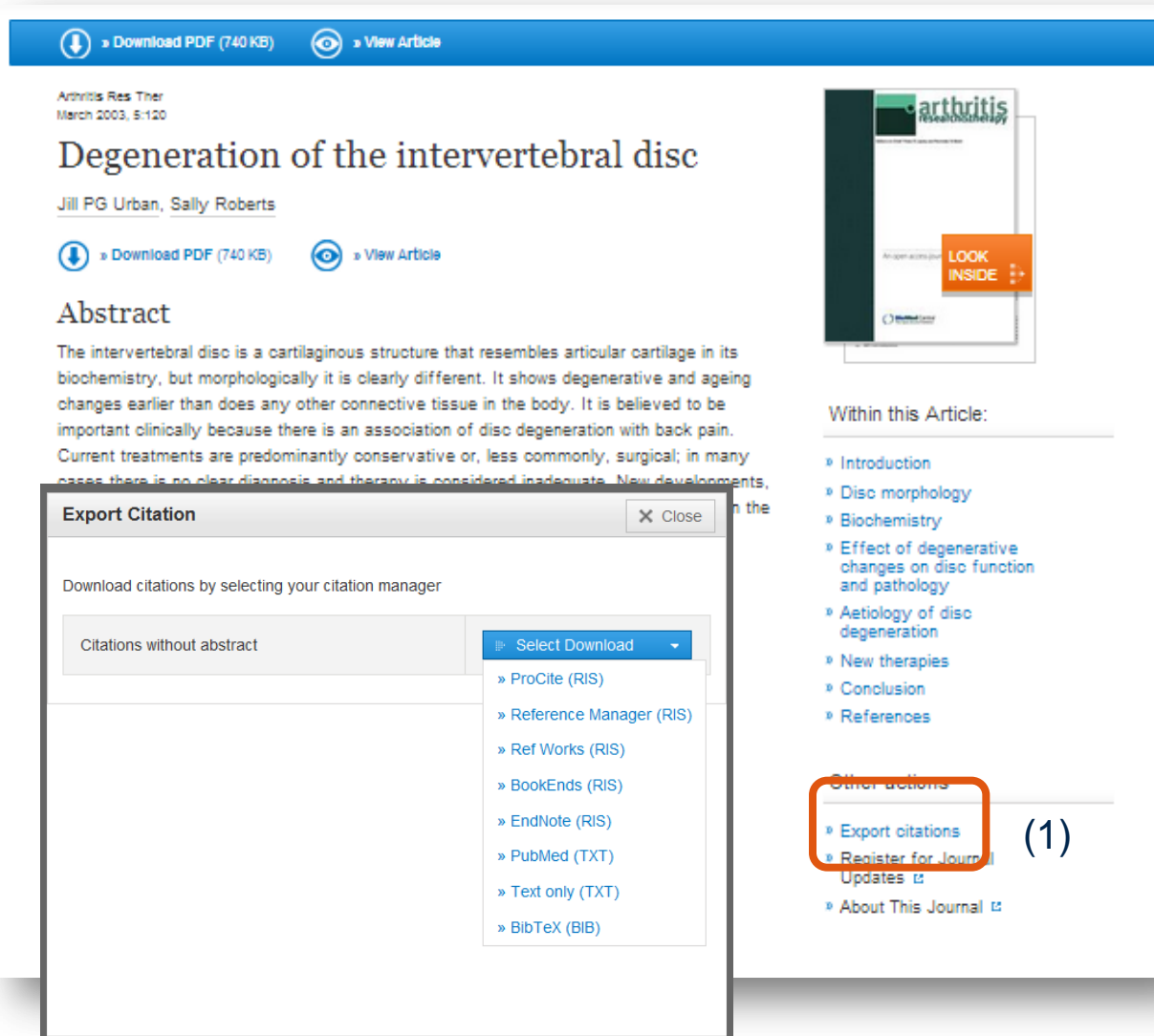
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Urinary podocalyxin is an early marker for podocyte injury in patients with diabetes: establishment of a highly sensitive ELISA to detect urinary podocalyxin

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

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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.

Conclusions/interpretation

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

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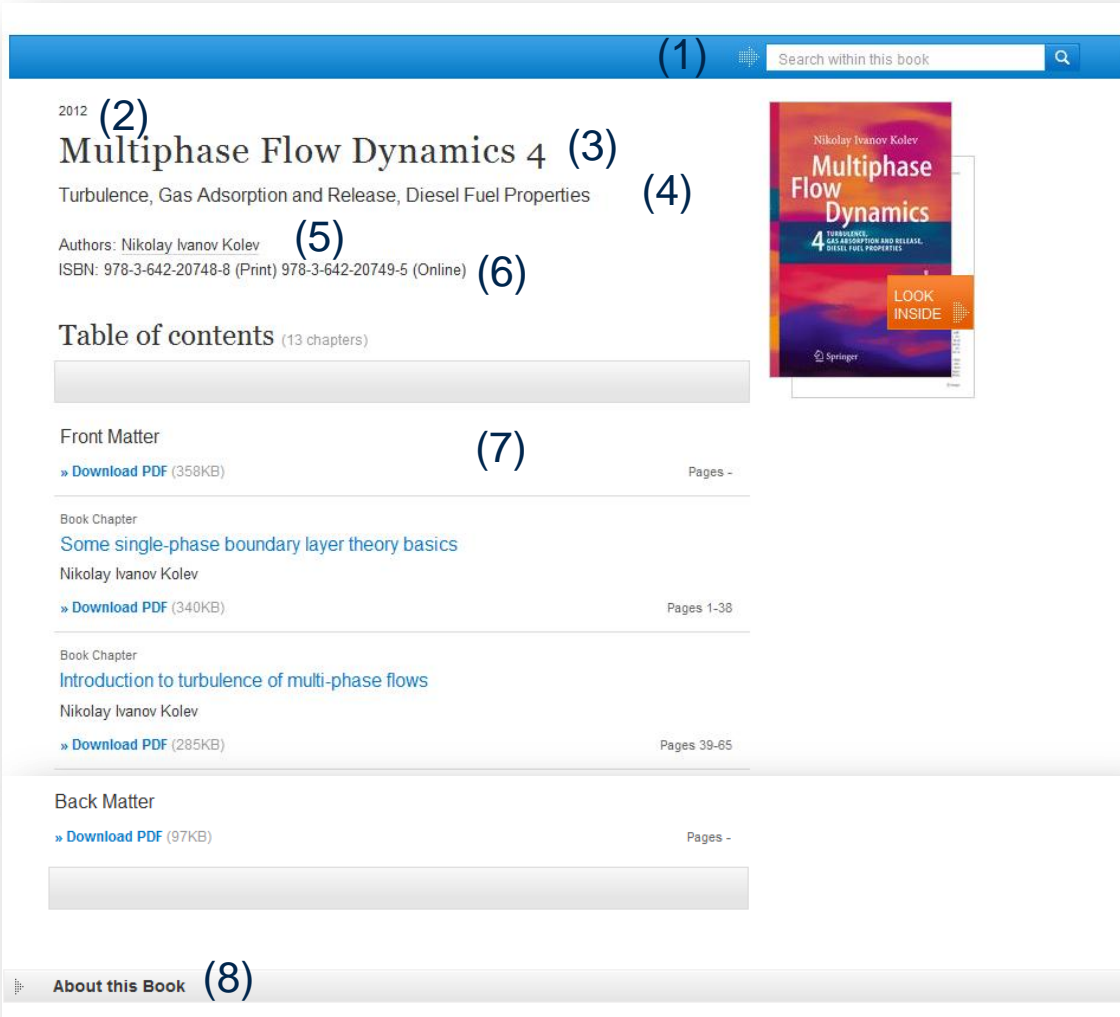
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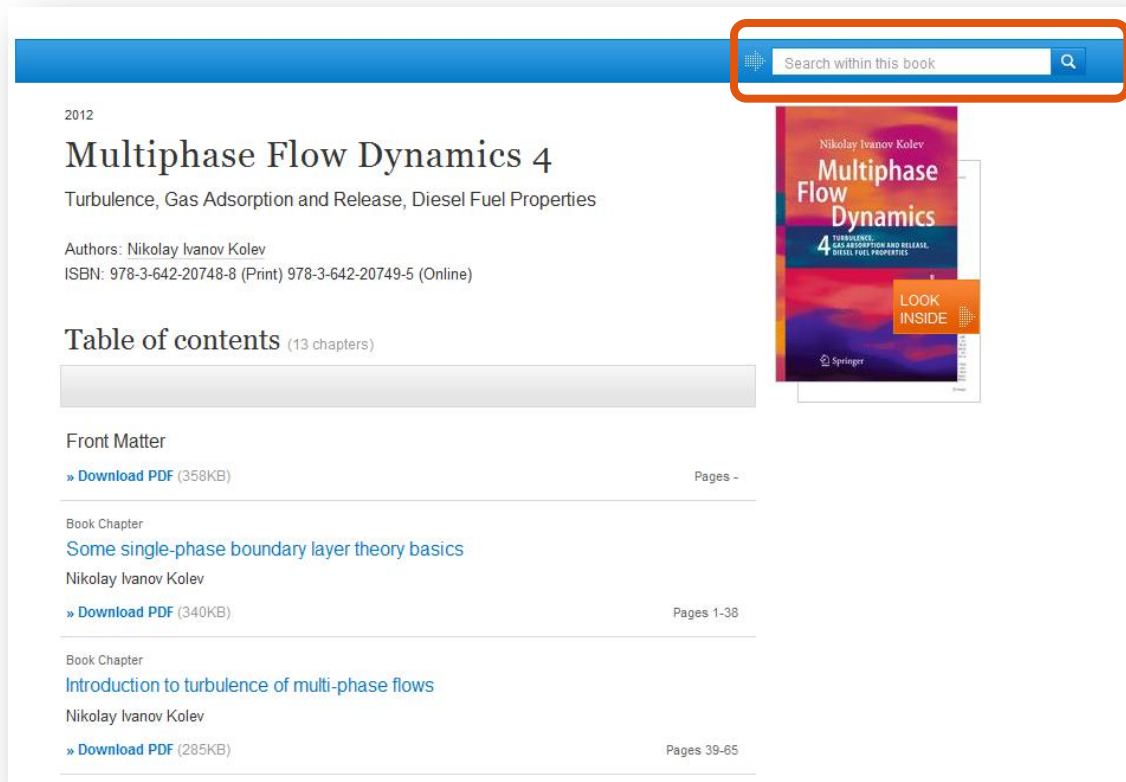
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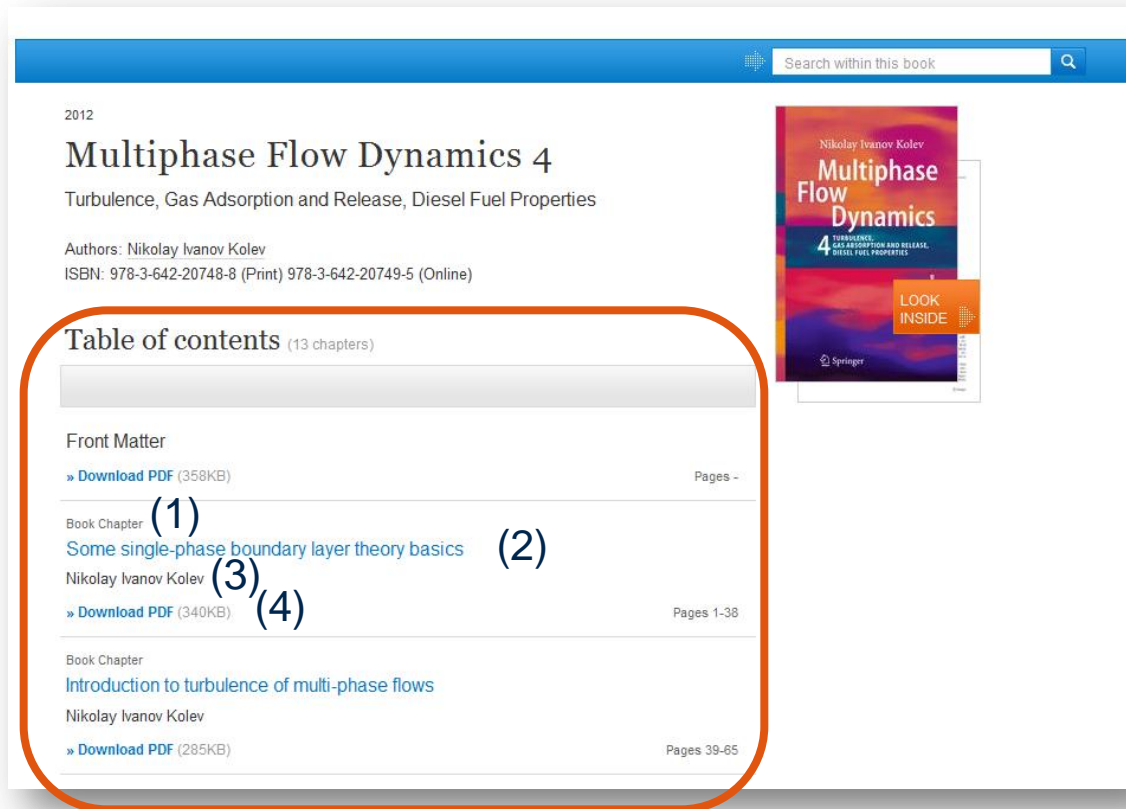
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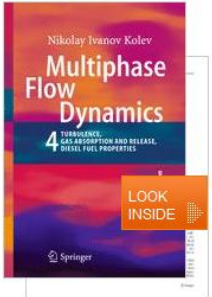
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Vector Optimization Volume 1, 2012, pp 1-27

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Gabriele Eichfelder, Johannes Jahn

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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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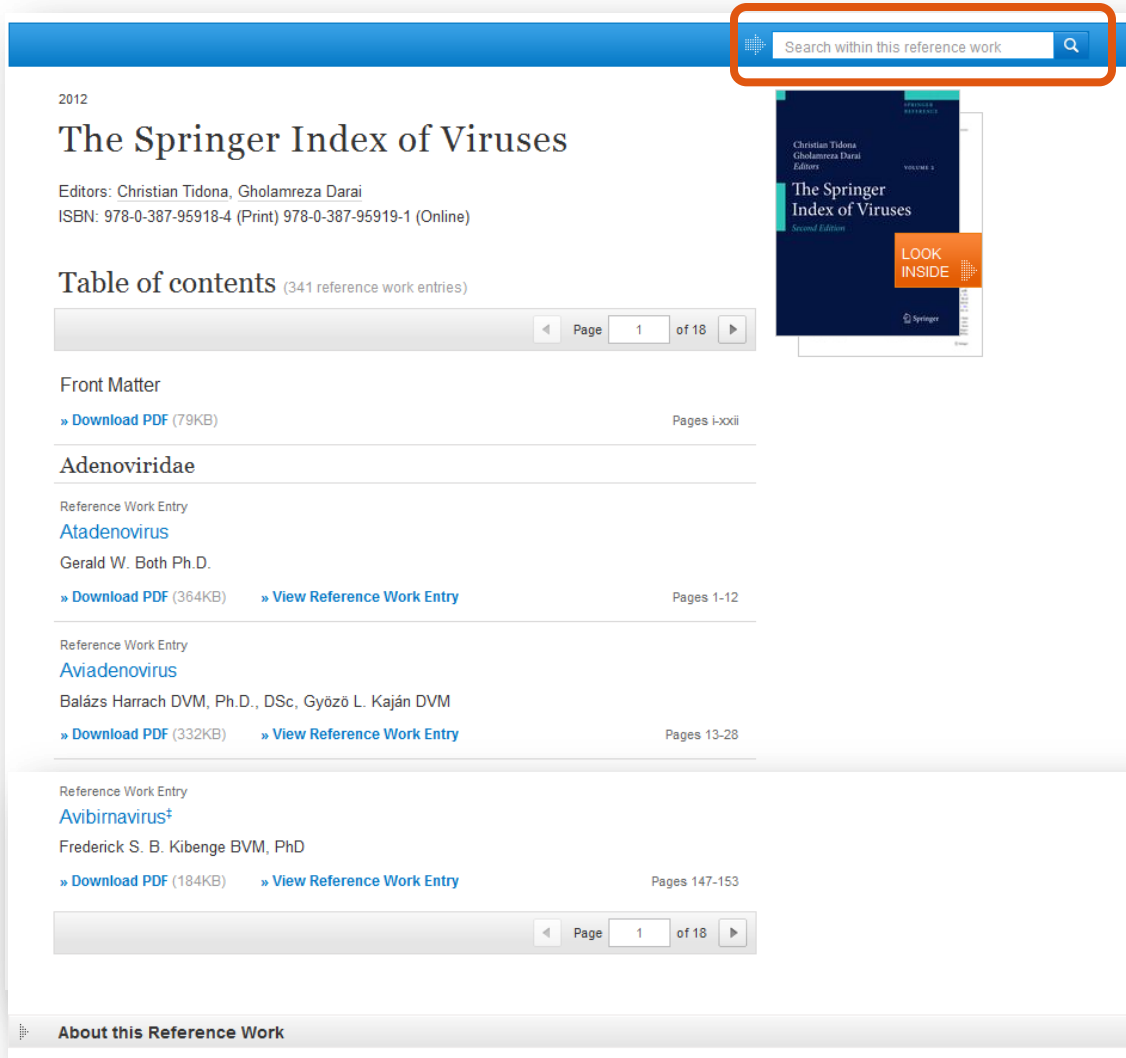
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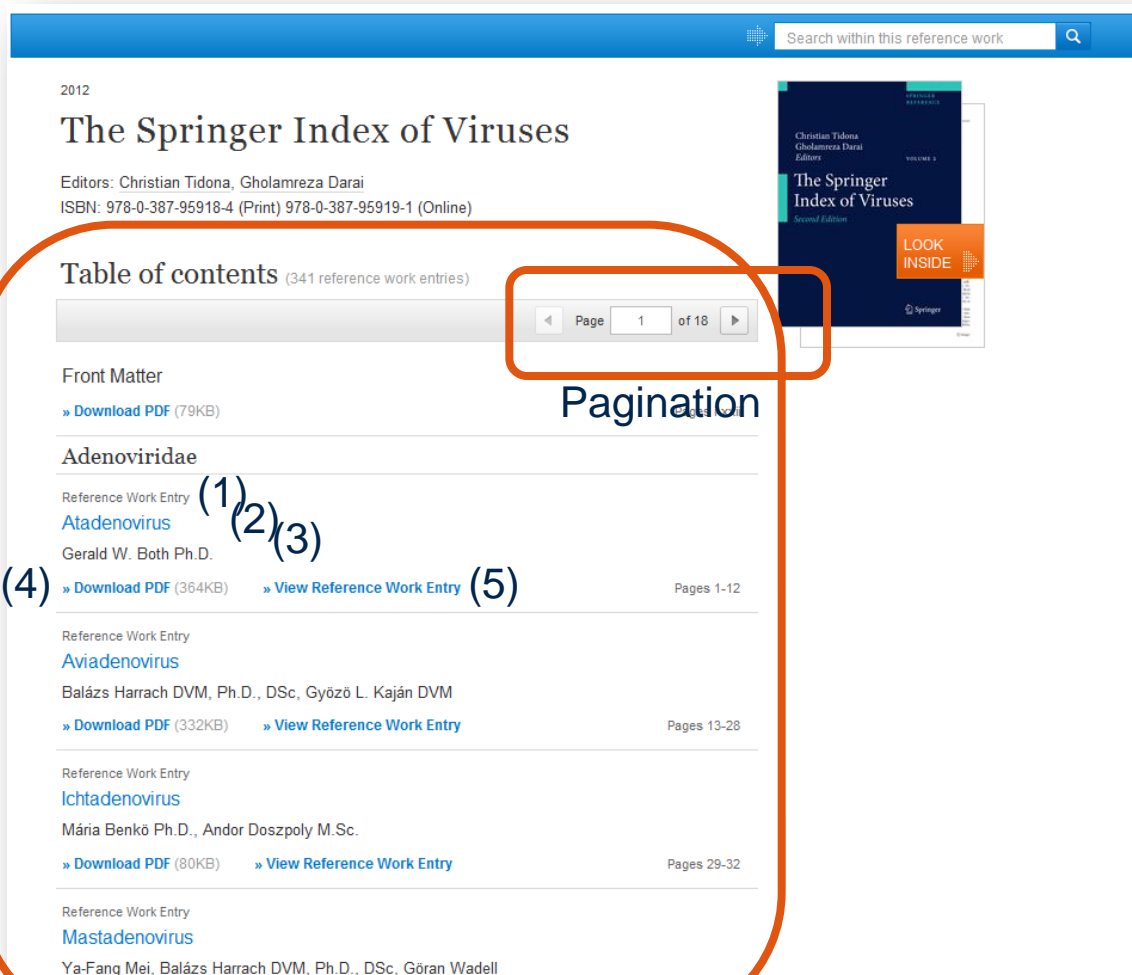
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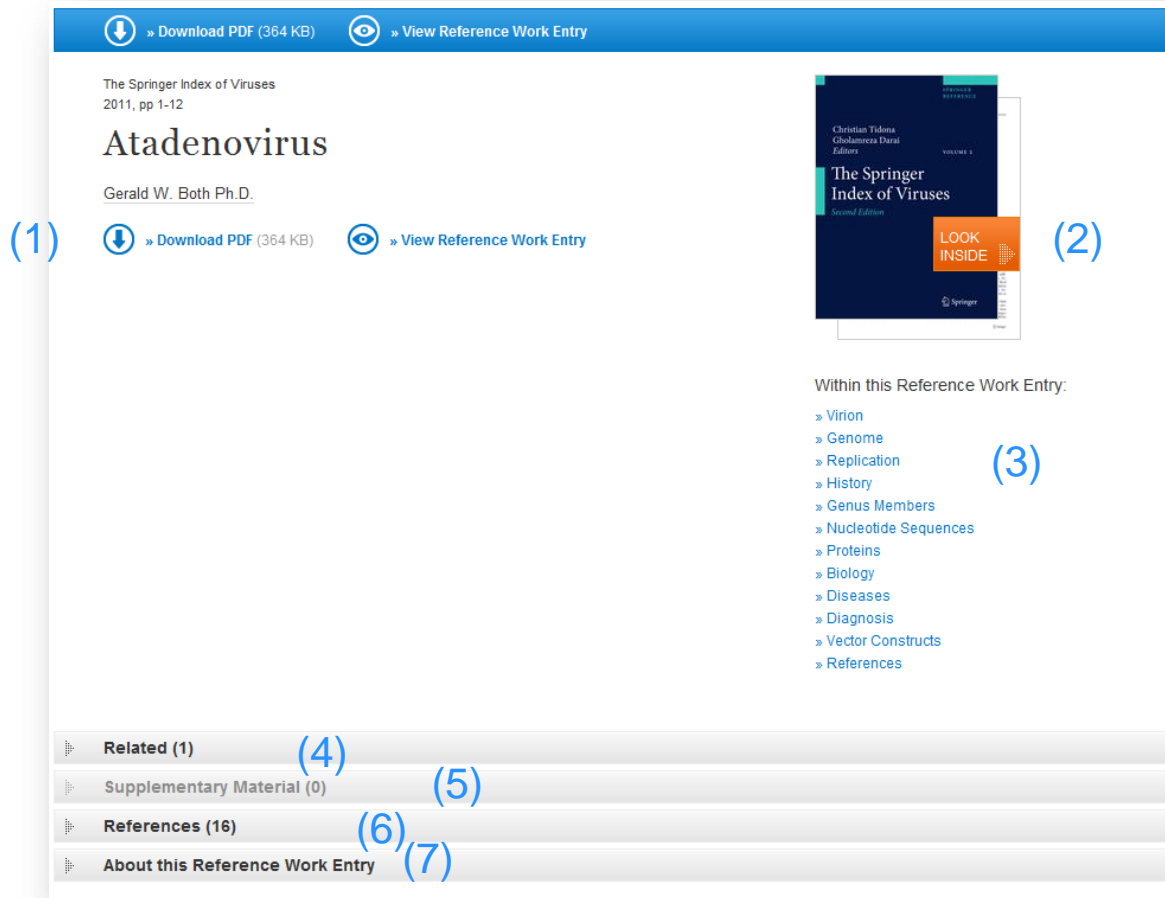
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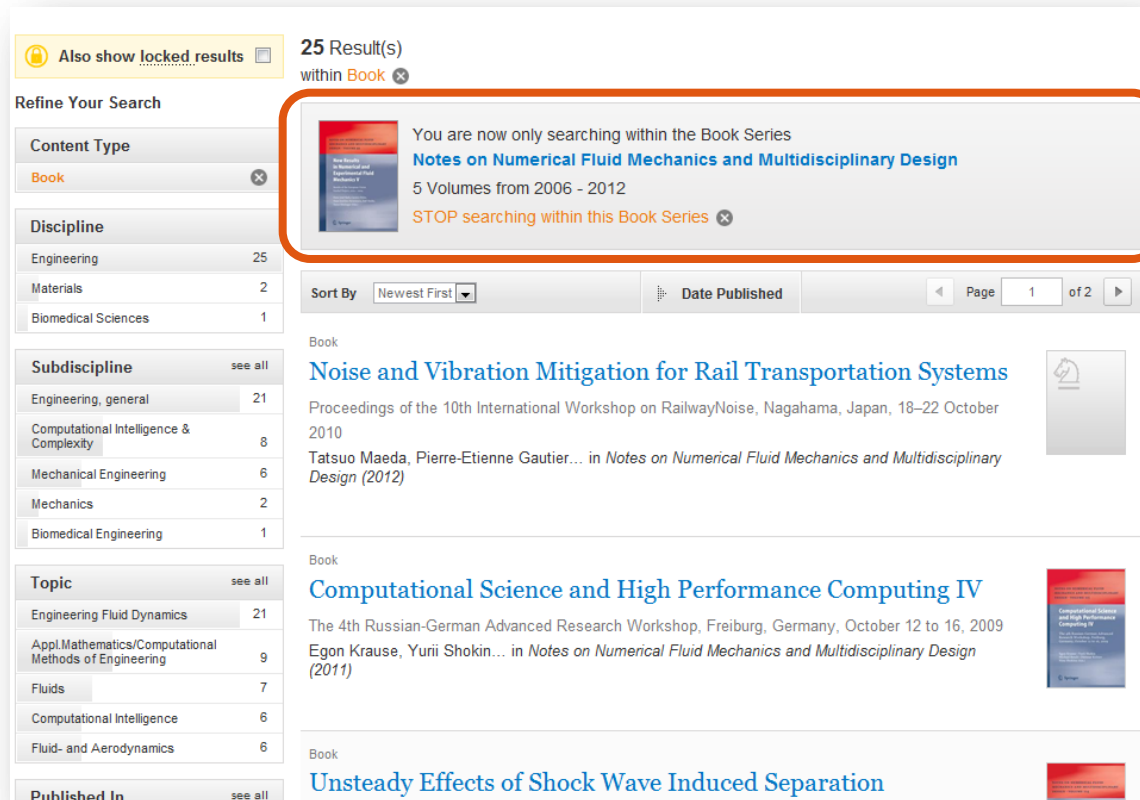


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Computational Science and High Performance Computing IV
The 4th Russian-German Advanced Research Workshop, Freiburg, Germany, October 12 to 16, 2009
Egon Krause, Yuri Shokin... in *Notes on Numerical Fluid Mechanics and Multidisciplinary Design* (2011)

Book
Unsteady Effects of Shock Wave Induced Separation

瀏覽和關鍵字搜索：

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