

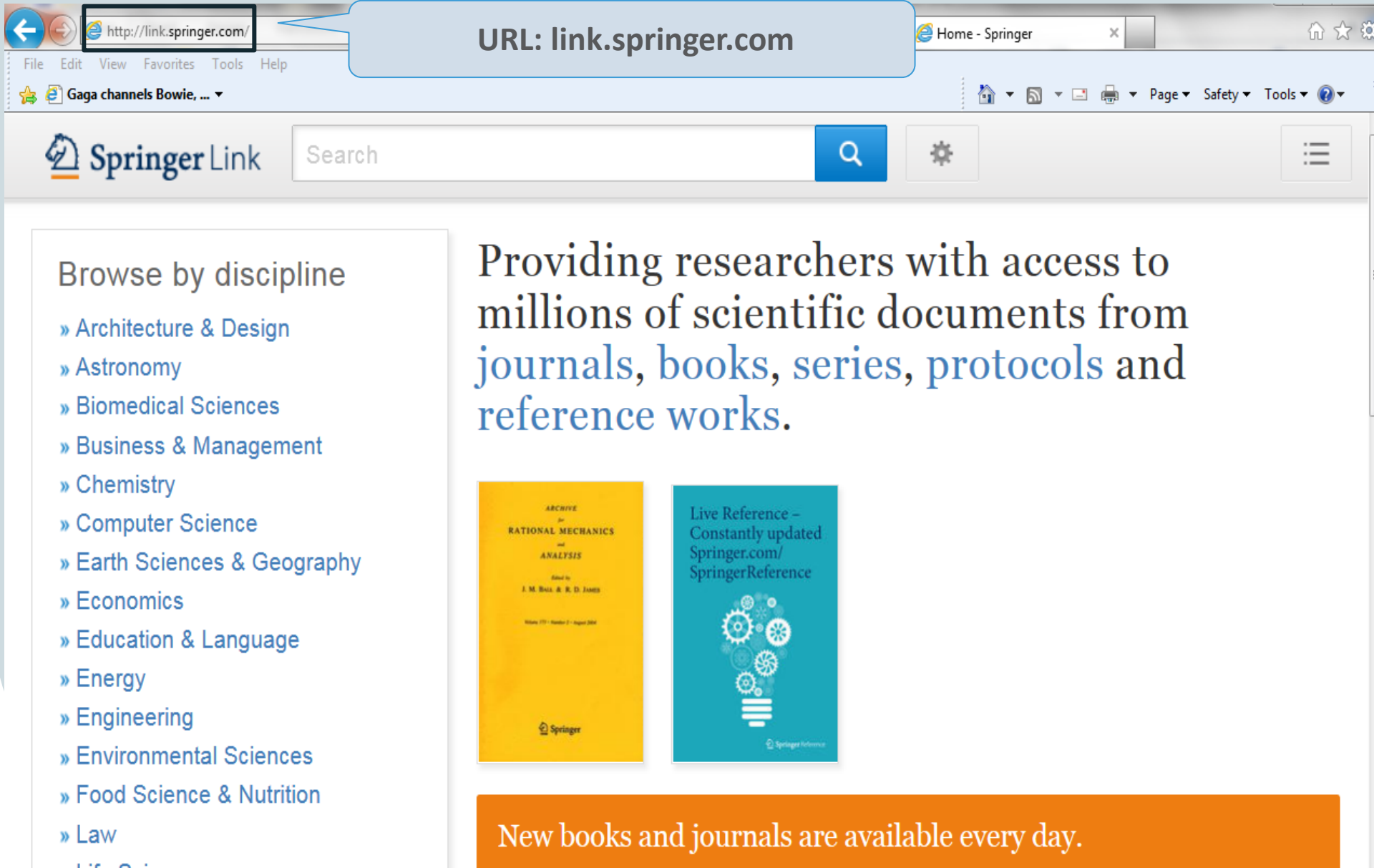


SpringerLink

March 2016

SPRINGER NATURE

The Homepage



The screenshot shows a web browser window with the address bar displaying `http://link.springer.com/`. A blue callout box points to this address bar with the text **URL: link.springer.com**. The browser's address bar also shows "Home - Springer". The browser's menu bar includes "File", "Edit", "View", "Favorites", "Tools", and "Help". The browser's toolbar includes a home button, a star icon, a gear icon, and a search icon. The browser's status bar shows "Page", "Safety", and "Tools".

The Springer Link homepage features a search bar with the text "Search" and a magnifying glass icon. Below the search bar, there is a section titled "Browse by discipline" with a list of disciplines:

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

To the right of the "Browse by discipline" section, there is a large text block that reads:

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

Below this text block, there are two book covers. The left cover is yellow and titled "ARCHIVE in RATIONAL MECHANICS and ANALYSIS" by J. M. Bruck & R. D. James. The right cover is blue and titled "Live Reference - Constantly updated Springer.com/ SpringerReference" with a graphic of a lightbulb made of gears.

At the bottom of the page, there is an orange banner with the text: "New books and journals are available every day."

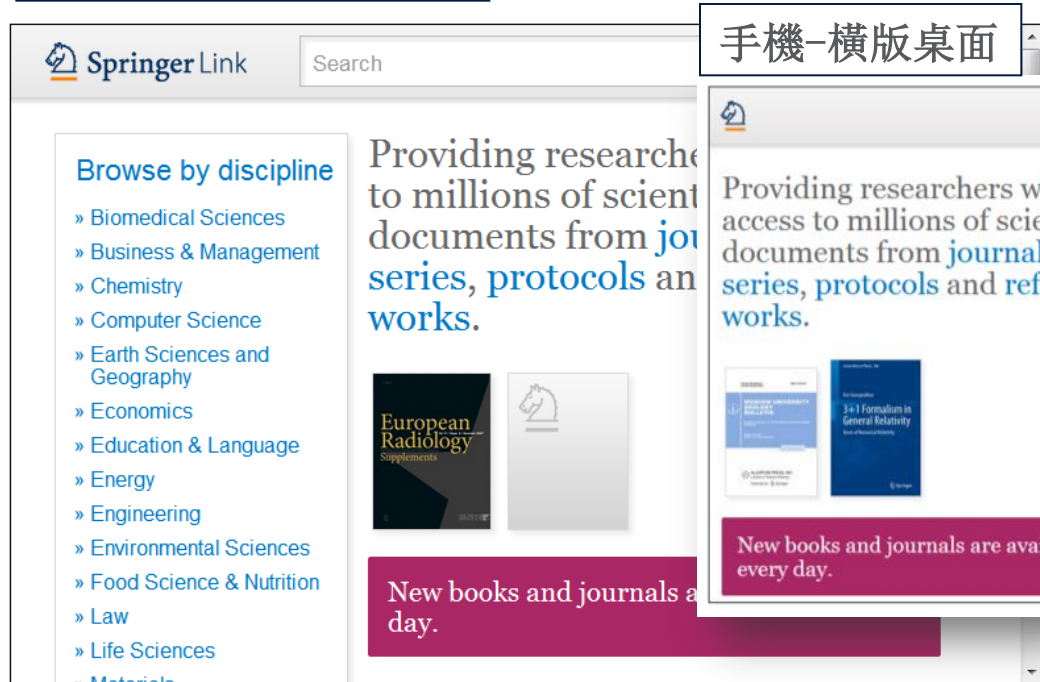
平臺對應各種移動載具、智慧手機

* 網路回應設計讓所有移動設備具有最佳視覺效果

普通電腦桌面



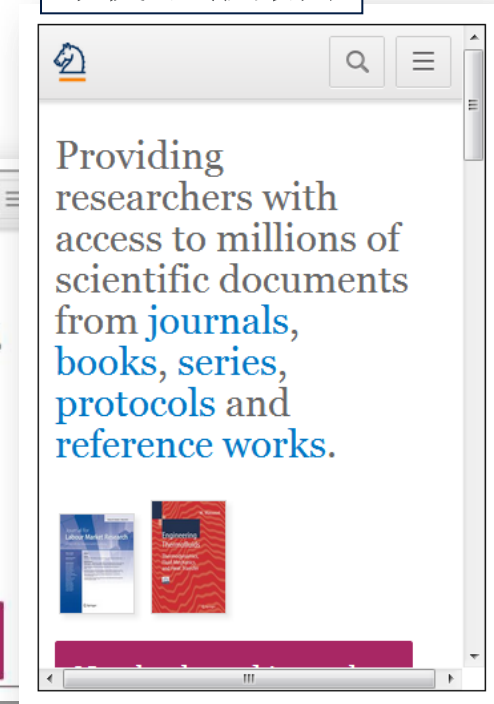
平板電腦（終端）桌面



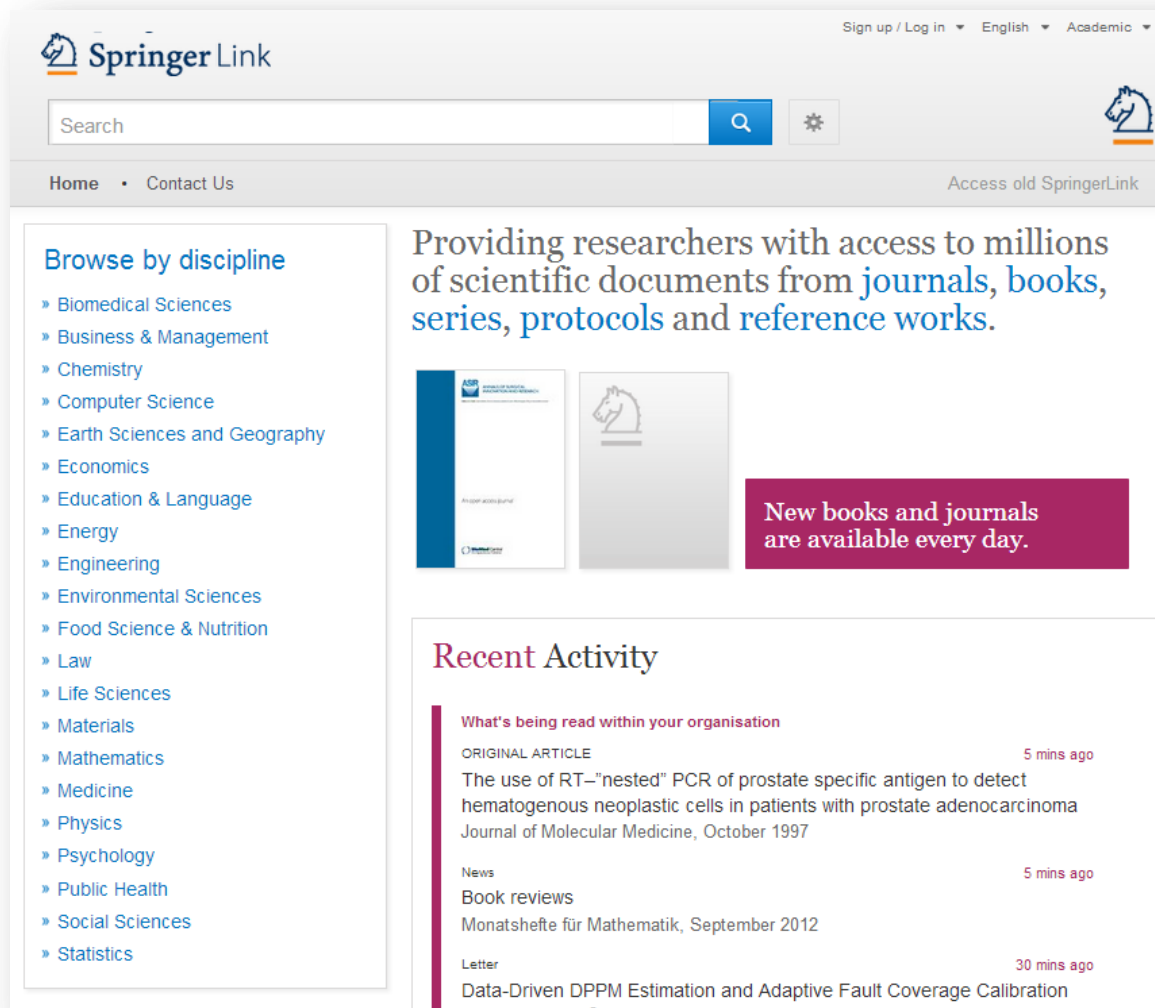
手機-橫版桌面



手機-豎版桌面



首頁



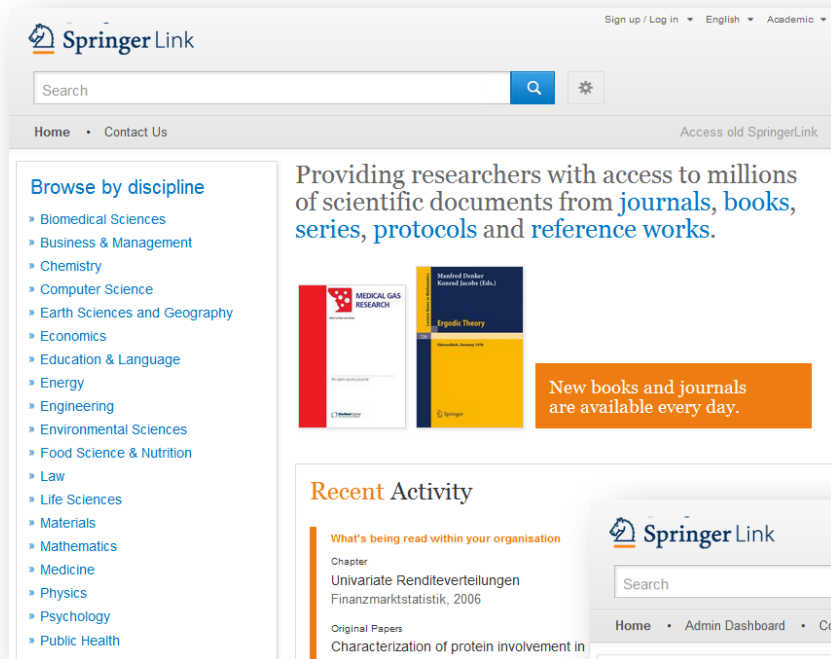
首頁分成兩個部分：

- 瀏覽功能
- 搜索功能

[Title for presentation / Date to go here]

SPRINGER NATURE

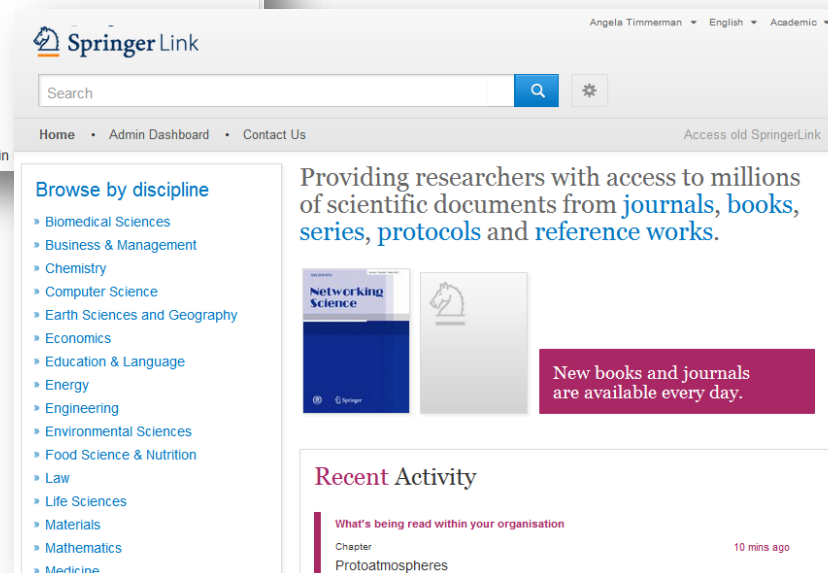
首頁



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

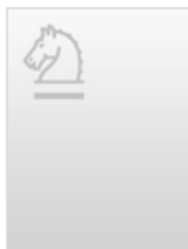


[Title for presentation / Date to go here]

SPRINGER NATURE

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.**



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

瀏覽

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 1 min ago

» 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

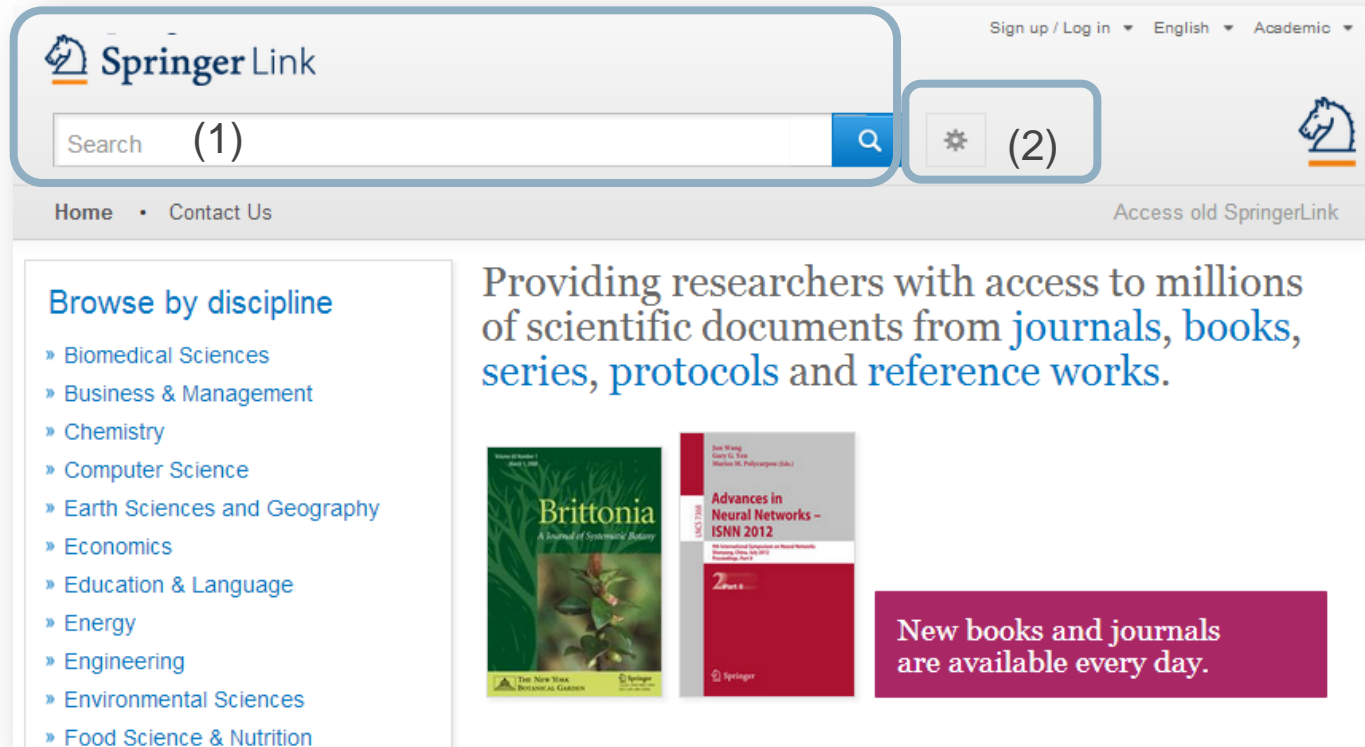
(圖書) 章節

參考文獻

實驗室指南

SPRINGER NATURE

搜索



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

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

搜索結果頁面1

Also show locked results ☒

11.275 Result(s) for 'pediatric cardiology'

Sort By: Relevance Date Published Page 1 of 564

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

Article [No Access](#)

Upcoming Events in Pediatric Cardiology
Pediatric Cardiology (2002)
[Free Preview](#) [Get Access](#)

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：

您可以在頁面右下角找到搜索結果列表

在預設情況下，將顯示所有的搜索結果

如果您想看許可權內的搜索結果，您可以取消黃色區域內的過濾選項，被鎖住的內容不會被列出來

搜索結果頁面2

pediatric cardiology

Home

Also show locked results

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

Article	7,958
Chapter	969
Reference Work Entry	30
Protocol	11
Book	7
Journal	1

Discipline

Medicine	8,184
Biomedical Sciences	568
Life Sciences	98
Chemistry	79
Engineering	77

Subdiscipline

Cardiology & Angiology	4,939
Surgery	2,956
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（不含預覽）：

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3

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

Article

DOE Bioenergy Center Special Issue: The Great Lakes Bioenergy Research Center (GLBRC)

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

Michael D. Casler in *BioEnergy Research* (2010)

» [Download PDF](#) (60 KB) » [View Article](#)

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4

Chapter

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5

Springer Link

Sign up / Log in English Academic

biorefinery technologies and products

Home Contact Us Access old SpringerLink

Include preview-only content

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	106
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 (63 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 (685 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6

253.840 Result(s) for 'oncology'

Sort By: Relevance (selected), Date Published, Newest First, Oldest First

Chapter: [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. Müntstedt 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

搜索結果頁面7

(1) **3.349 Result(s) for 'mrsa'**

Sort By Relevance Date Published

(2) **Show documents published** between 1867 and 2012 Q
(Available 1867 - 2012)

(3) ↓

Chapter

Hoe groot is de kans als huisarts besmet te raken met de MRSA-bacterie?

...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)*

» [Download PDF \(50 KB\)](#) » [View Chapter](#)

Article No Access

Prävention von MRSA-Übertragungen: Standardhygiene statt Isolierung

1. 按出版年限搜索

您可以精確定位到某出版年限

2. 頁碼

在搜索時，您可以輸入頁碼跳到任何頁面

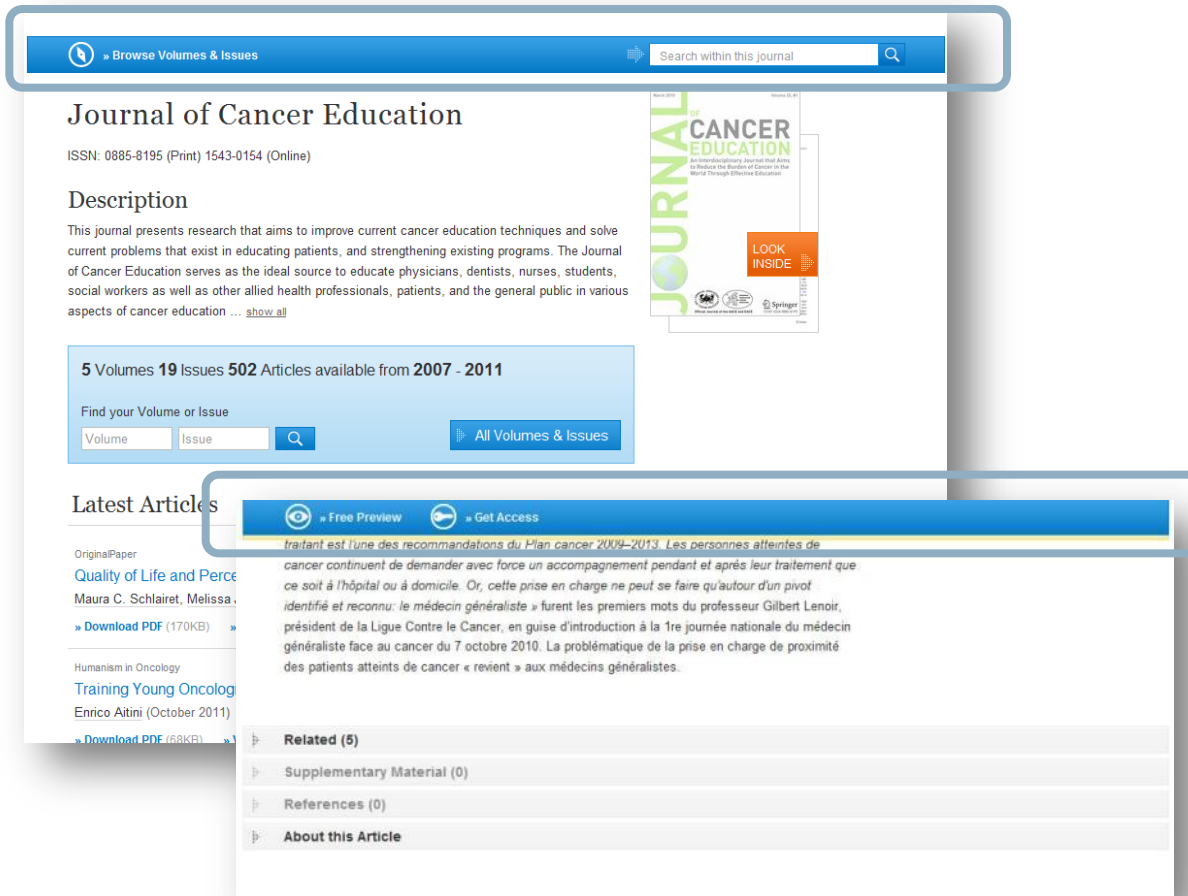
3. 下載列表：

在頁碼右上方，點擊箭頭可以下載CSV格式檔

產品頁面

- 產品頁面-藍色條狀框
- 開放取用標記
- 期刊
- 圖書
- 叢書

產品頁面

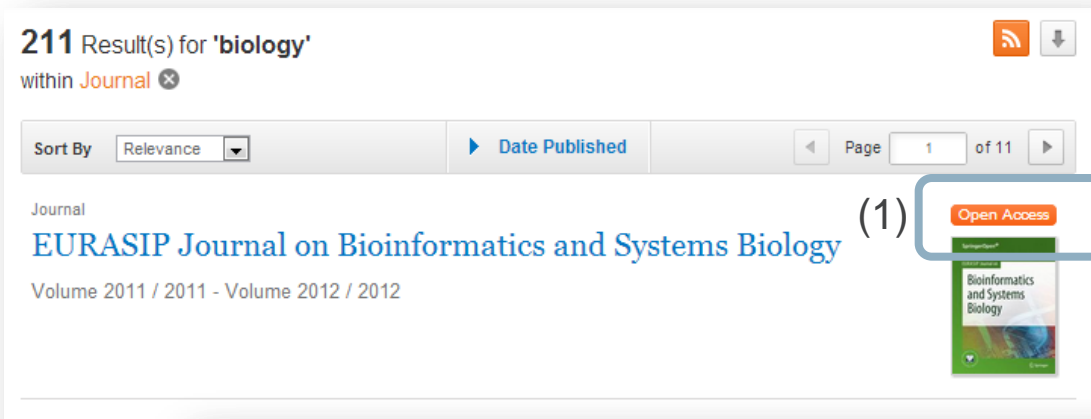


藍色條狀框

在頁面的最上方，即使頁面
向下捲動，藍條狀框將一直
顯示

此功能在不同的頁面會有不
同的顯示

開放取用標記



開放取用標記在以下內容頁面顯示：

1. 文章/章節頁面
2. 搜索結果頁面
3. 期刊/圖書首頁



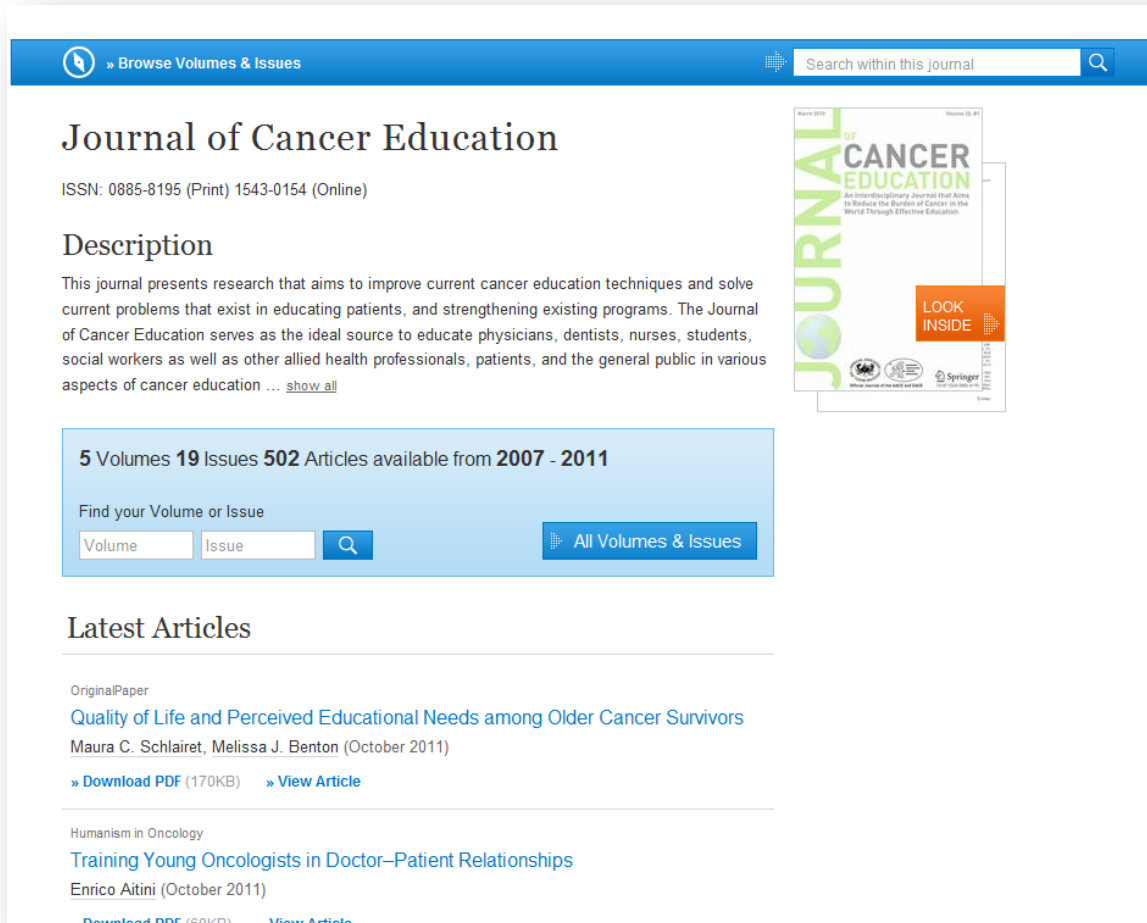
[Title for presentation / Date to go here]

期刊首頁

- 功能概述
- 在此期刊內容中搜索
- 在此期刊內依關鍵字搜索
- 卷和期的導航
- 所有卷和期的搜索結果
- 關於此期刊

期刊首頁

(1)




The screenshot shows the homepage of the Journal of Cancer Education. At the top, there is a blue navigation bar with a magnifying glass icon and the text « Browse Volumes & Issues». To the right of this bar is a search box with the placeholder text "Search within this journal" and a magnifying glass icon. Below the navigation bar, the journal's title "Journal of Cancer Education" is displayed in a large, bold font. Underneath the title, the ISSN numbers are listed: "ISSN: 0885-8195 (Print) 1543-0154 (Online)". A "Description" section follows, providing a brief overview of the journal's content and its aim to improve cancer education techniques. To the right of the description is a thumbnail image of the journal's cover, which features the title "JOURNAL OF CANCER EDUCATION" and a "LOOK INSIDE" button. Below the description, a blue box highlights the availability of "5 Volumes 19 Issues 502 Articles available from 2007 - 2011". This box contains a search form with "Find your Volume or Issue" text, input fields for "Volume" and "Issue", a magnifying glass icon, and a button labeled "All Volumes & Issues". Below this box, the "Latest Articles" section is shown, featuring two articles: "Quality of Life and Perceived Educational Needs among Older Cancer Survivors" by Maura C. Schlairet, Melissa J. Benton (October 2011), and "Training Young Oncologists in Doctor-Patient Relationships" by Enrico Aitini (October 2011). Each article has links to "Download PDF" and "View Article".

功能預覽:

1. 瀏覽卷和期
2. 在此期刊內搜索
3. 期刊標題
4. 期刊 ISSN
5. 期刊描述
6. 卷和期的導航
7. 最新文章列表
8. 期刊封面
9. 查看內容

期刊首頁 - 在此期刊內搜索



The screenshot shows the homepage of the Journal of Cancer Education. At the top, there is a blue navigation bar with a magnifying glass icon and the text "Browse Volumes & Issues". To the right of this bar is a search box with the placeholder text "Search within this journal" and a magnifying glass icon. Below the navigation bar, the journal's title "Journal of Cancer Education" is displayed in a large, bold font. Underneath the title, the ISSN numbers are listed: "ISSN: 0885-8195 (Print) 1543-0154 (Online)". A "Description" section follows, providing a brief overview of the journal's mission and a link to "show all". To the right of the description is a thumbnail image of the journal's cover. Below the description, a blue box highlights the available content: "5 Volumes 19 Issues 502 Articles available from 2007 - 2011". This box contains a search form with "Volume" and "Issue" input fields, a magnifying glass icon, and a button labeled "All Volumes & Issues". At the bottom, a "Latest Articles" section lists two articles with their titles, authors, and publication dates, each accompanied by links to "Download PDF" and "View Article".

在此期刊內搜索：

如果您想要搜索相關文章，可以在該期刊內搜索

搜索結果將以清單形式顯示，跳轉到新的頁面

搜索結果頁面

 Include preview-only content ☒

Refine Your Search

Content Type

Article	793
---------	-----

Discipline

Biomedical Sciences	708
Medicine	708

Subdiscipline

Endocrinology & Metabolism	708
Human Physiology	708
Internal Medicine	708

Published In

Diabetologia	793
--------------	-----

Language

English	793
---------	-----

793 Result(s) for 'polypeptide'

 You are now only searching within the Journal
Diabetologia
 STOP searching within this Journal ✕

Sort By: Relevance ▼ | Date Published ▶

Page 1 of 40

Article
Observation(s) A novel mutation in islet amyloid polypeptide (IAPP) gene promoter is associated with Type II diabetes mellitus
Diabetologia (2001)
 » Download PDF (42 KB)

Article
Islet amyloid polypeptide (amylin) and insulin are differentially expressed in chronic diabetes induced by streptozotocin in rats
 H. Mulder, B. Ahrén, F. Sundler in *Diabetologia* (1996)
 » Download PDF (91 KB)

在此期刊內用關鍵字搜索：

在搜索清單的上方會顯示搜索條件和期刊名稱

期刊首頁

The screenshot shows the homepage of the Journal of Cancer Education. At the top, a blue navigation bar contains a magnifying glass icon and the text « Browse Volumes & Issues», which is highlighted by a blue box. To the right of this bar is a search input field with the placeholder text "Search within this journal" and a magnifying glass icon. Below the navigation bar, the journal's title "Journal of Cancer Education" is displayed, followed by its ISSN numbers: "ISSN: 0885-8195 (Print) 1543-0154 (Online)". A "Description" section follows, detailing the journal's focus on cancer education research. To the right of the text is a thumbnail image of the journal cover, which includes a "LOOK INSIDE" button. Below the description, a blue box highlights the text "5 Volumes 19 Issues 502 Articles available from 2007 - 2011". Underneath this, another blue box highlights a search area with the text "Find your Volume or Issue", two input fields labeled "Volume" and "Issue", a magnifying glass icon, and a button labeled "All Volumes & Issues". At the bottom, a "Latest Articles" section lists two articles with their titles, authors, and publication dates, each accompanied by "Download PDF" and "View Article" links.

卷和期導航:

1. 在該首頁內容描述的下方藍色框中，您可以搜索到具體的卷和期
2. 如果您想要瀏覽所有的卷和期，您可以按下 “All Volumes and Issues” 選項
3. 您也可以使用首頁上方的連結，瀏覽卷和期 “Browse Volumes & Issues”

期刊首頁



所有的卷和期

1. 在頁面上方，您可以看到最新的內容連結

2. 過往期刊將會以灰色顯示

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March 2003, 5:120

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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.

Within this Article:

- » Introduction
- » Disc morphology
- » Biochemistry
- » Effect of degenerative changes on disc function and pathology
- » Aetiology of disc degeneration
- » New therapies
- » Conclusion
- » References

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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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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

Diabetologia
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- » Methods
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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 development 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 ($n = 142$) and healthy controls ($n = 50$) were analyzed by ELISA. The ELISA was highly sensitive and specific for urinary podocalyxin.

Diabetologia
Clinical and Experimental Diabetes and Metabolism
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10.1007/s00125-012-2561-7

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. Sekine⁶ and K. Yan⁶

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Email: mhara@yoshida-hosp.jp

Received: 30 May 2012
Accepted: 19 June 2012
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Abstract

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Conclusions/interpretation

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

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Cover Date

2011-12-01

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10.1007/s11010-011-0930-2

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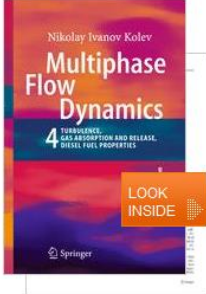
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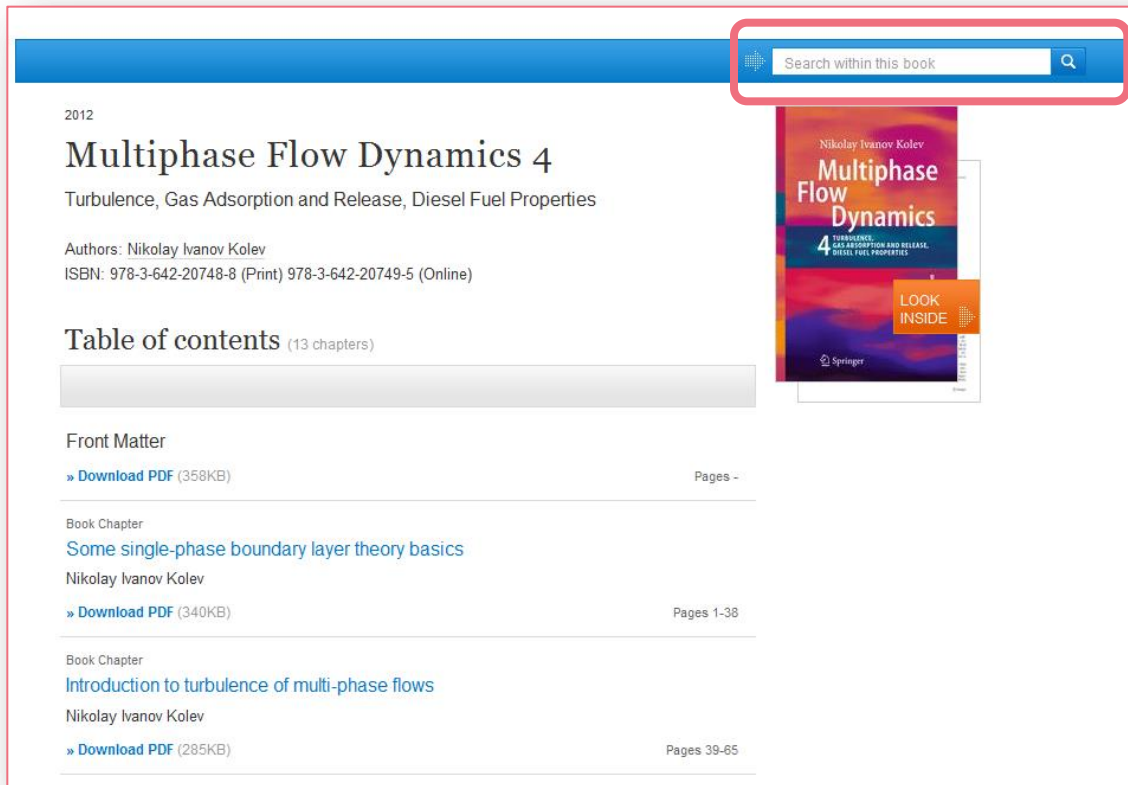
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Turbulence, Gas Adsorption and Release, Diesel Fuel Properties

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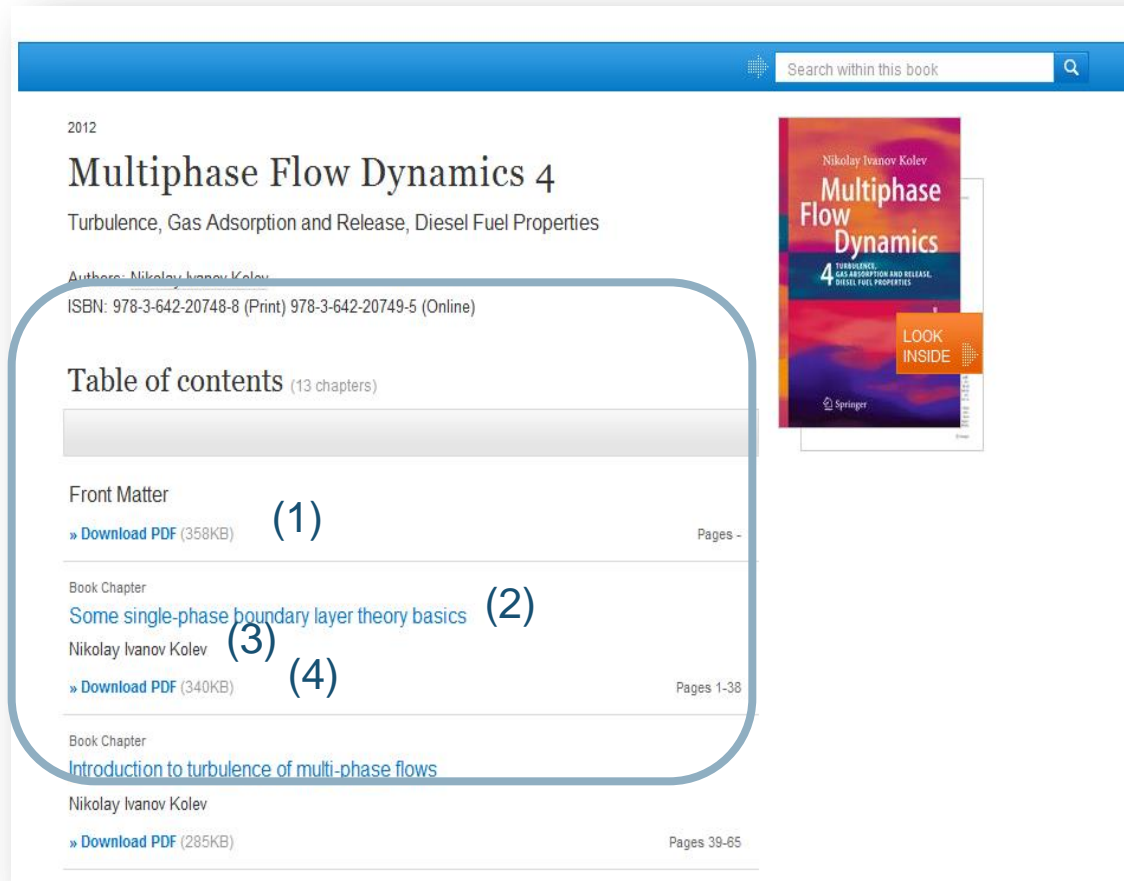
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Volume 1 2012

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Editors: Qamrul Hasan Ansari, Jen-Chih Yao
ISBN: 978-3-642-21113-3 (Print) 978-3-642-21114-0 (Online)

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» Engineering Thermodynamics, Heat and Mass Transfer
» Fluid- and Aerodynamics
» Thermodynamics

(4) **Authors**
Nikolay Ivanov Kolev  ⁽¹⁾

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1. Framatome-ANP, Möhrendorferstr. 7, 91074, Herzogenaurach, Germany

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Recent Developments in Vector Optimization
Vector Optimization Volume 1, 2012, pp 1-27

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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