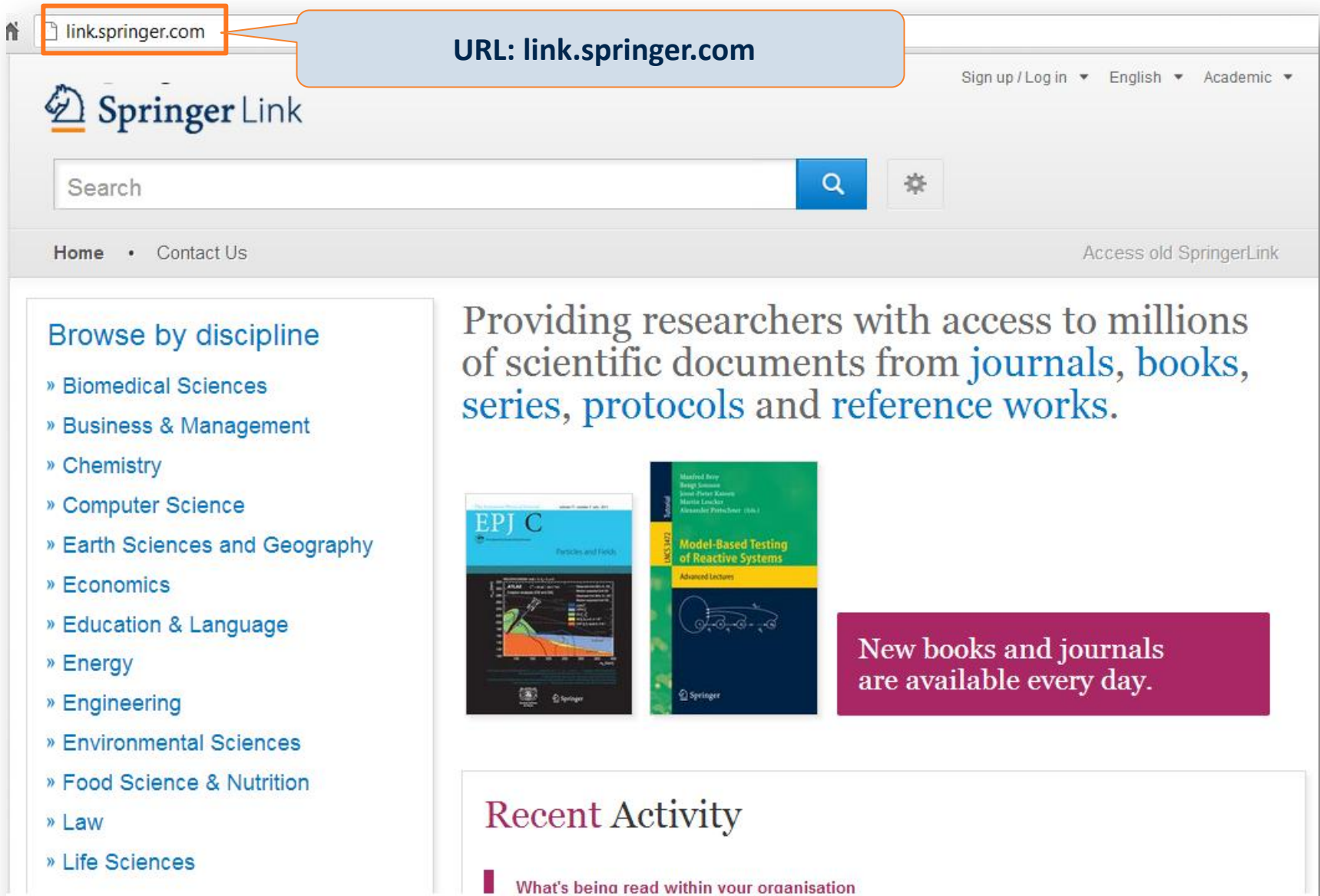




SpringerLink



The screenshot shows the SpringerLink website interface. A callout box points to the address bar containing 'link.springer.com' with the text 'URL: link.springer.com'. The page features a search bar, navigation links for 'Home' and 'Contact Us', and a list of disciplines. A central banner highlights the platform's mission to provide access to millions of scientific documents. Below this, two book covers are displayed: 'EPJ C Particles and Fields' and 'Model-Based Testing of Reactive Systems'. A purple box states 'New books and journals are available every day.' At the bottom, a section titled 'Recent Activity' includes the text '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.

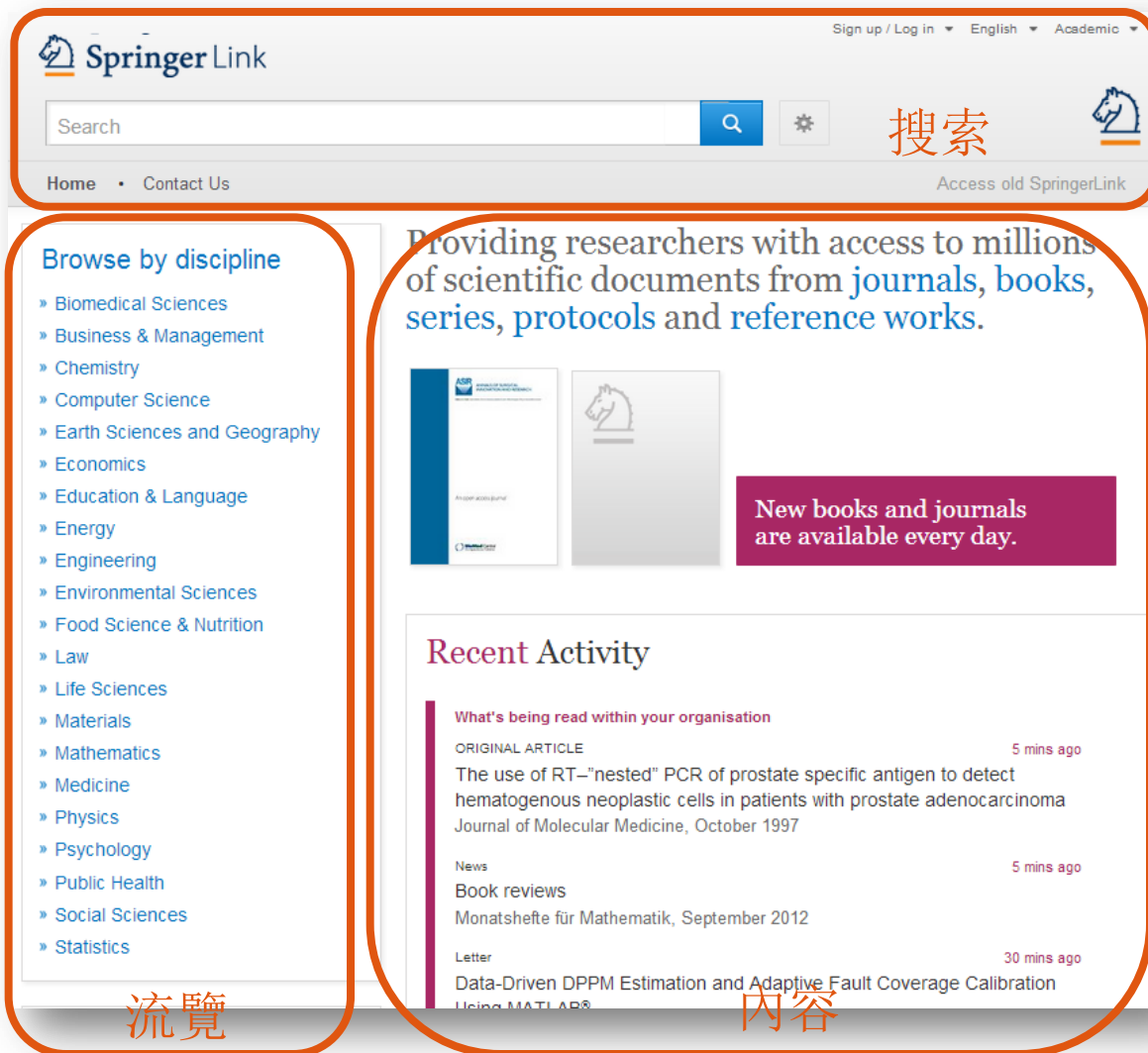
Recent Activity

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
- 搜索功能

首頁



The screenshot shows the SpringerLink homepage with several key elements highlighted by orange rounded rectangles:

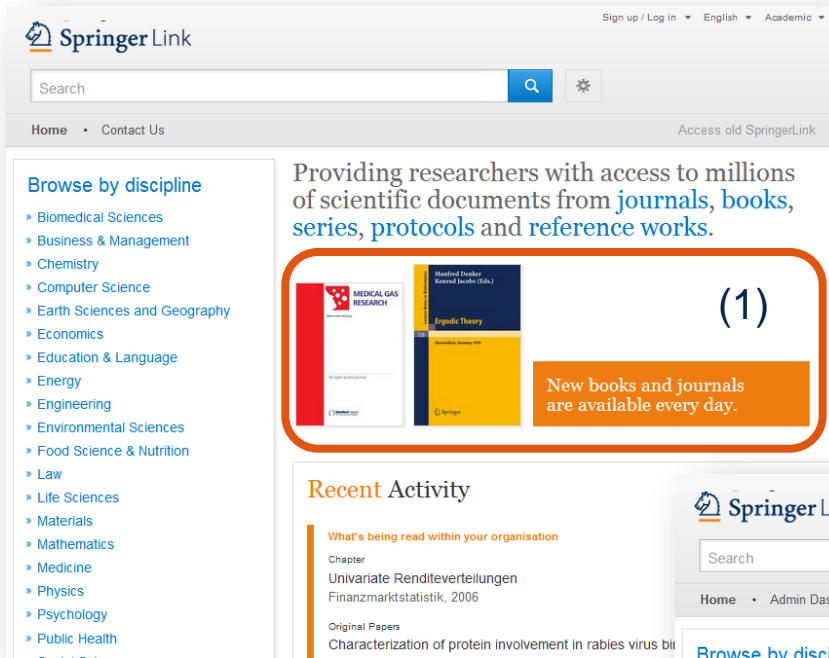
- Navigation Bar:** Includes the Springer Link logo, a search bar with a magnifying glass icon, a settings gear icon, and the Chinese characters "搜索" (Search). It also features links for "Sign up / Log in", "English", and "Academic".
- Home Links:** "Home" and "Contact Us" are located in the top left, while "Access old SpringerLink" is in the top right.
- Browse by discipline:** A vertical list of 20 academic disciplines, each preceded by a right-pointing arrow. The disciplines include 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, and Statistics.
- Main Content Area:** A large banner with the text "Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works." Below this is a graphic showing a book cover and a Springer logo, with a purple box stating "New books and journals are available every day."
- Recent Activity:** A section titled "Recent Activity" with a sub-heading "What's being read within your organisation". It lists three items: an original article about RT-nested PCR (5 mins ago), book reviews in a German journal (5 mins ago), and a letter about data-driven DPPM estimation (30 mins ago).

Two large Chinese characters are overlaid on the bottom of the screenshot: "流覽" (Browse) on the left and "內容" (Content) on the right.

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

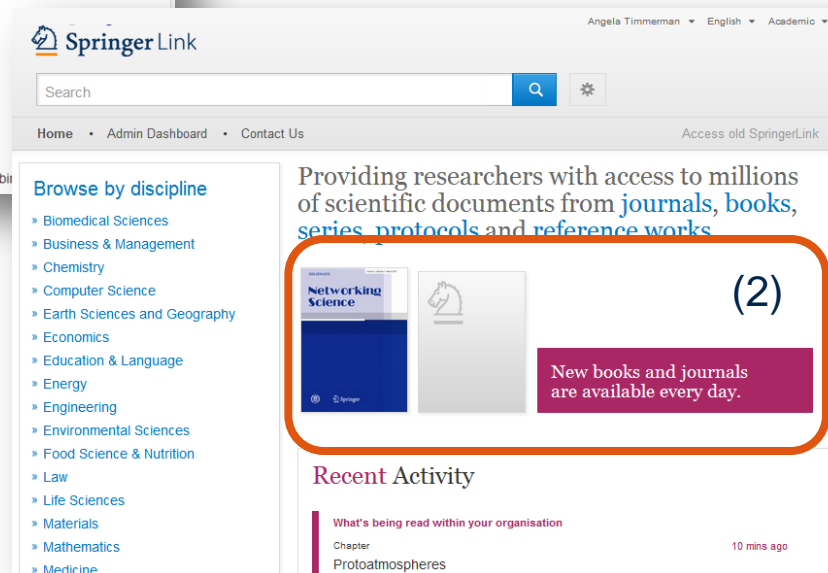
首頁



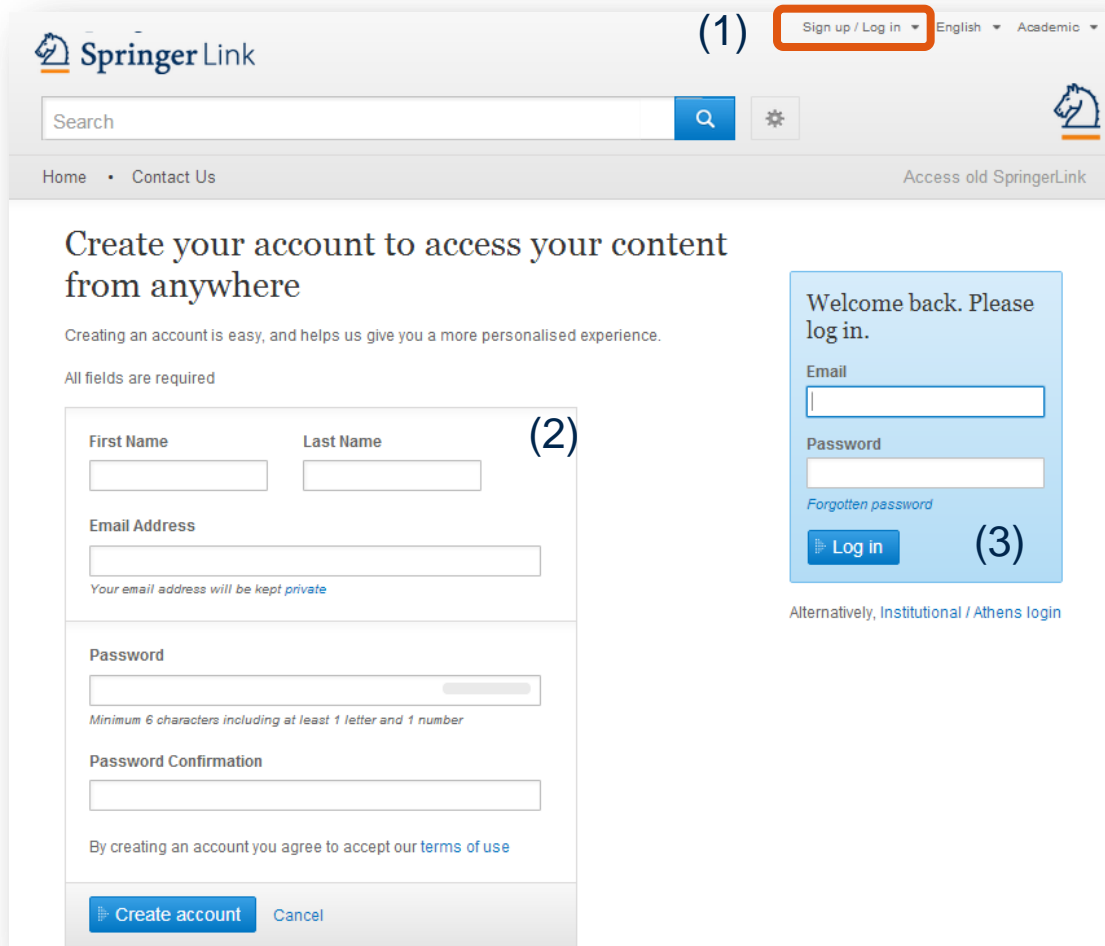
內容區域

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

識別功能

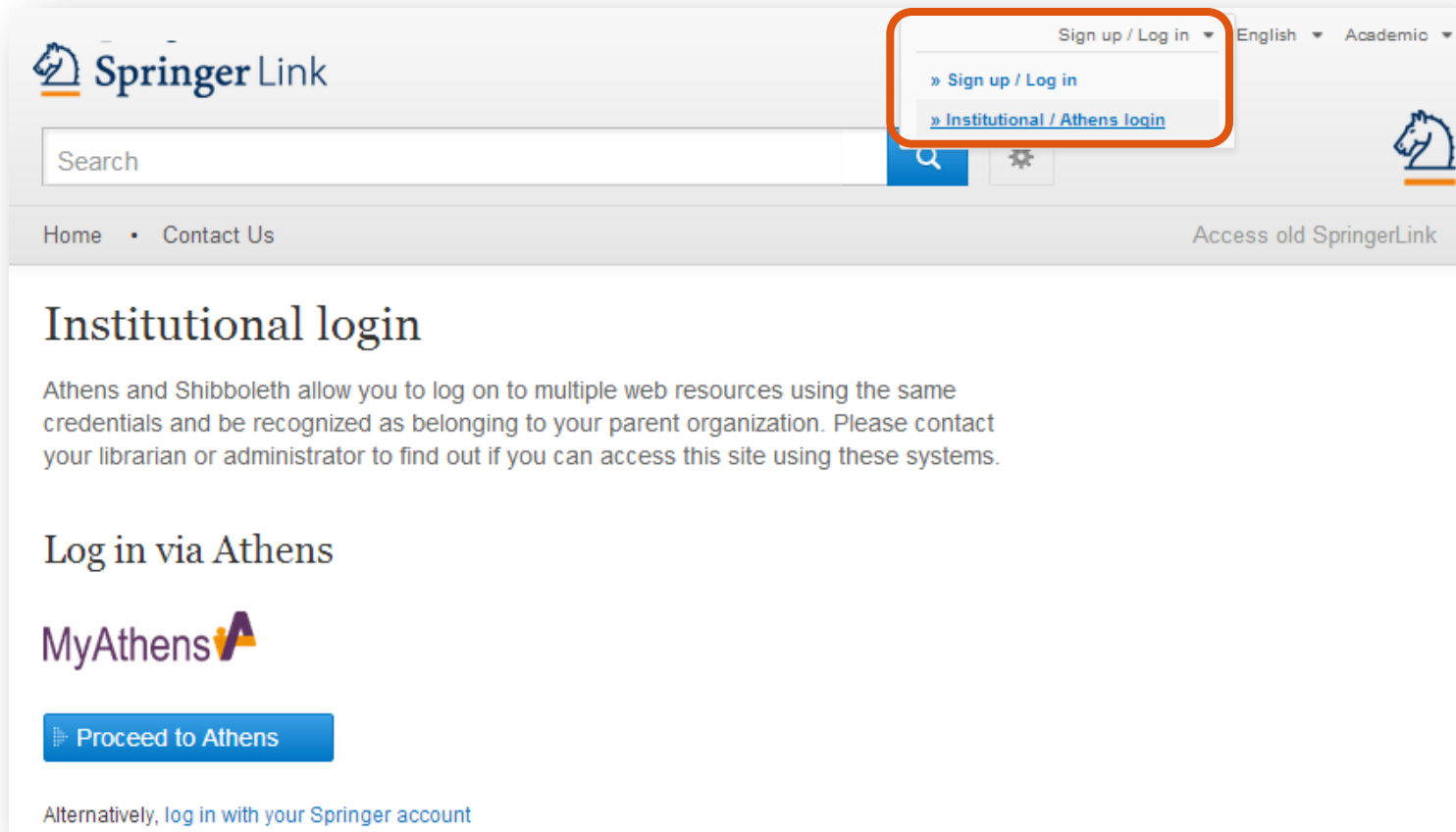
當某用戶在可識別的IP範圍內登入 <http://link.springer.com>

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 right, a dropdown menu for 'Sign up / Log in' is open, with an orange border around it. The menu contains two options: '» Sign up / Log in' and '» Institutional / Athens login'. Below the menu is a search bar with the text 'Search'. The main content area features 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, there is a section titled 'Log in via Athens' with the MyAthens logo and a blue button labeled 'Proceed to Athens'. At the bottom, there is a link that says 'Alternatively, log in with your Springer account'.

Springer Link

Search

Sign up / Log in

» Sign up / Log in

» Institutional / Athens login

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.

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

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

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

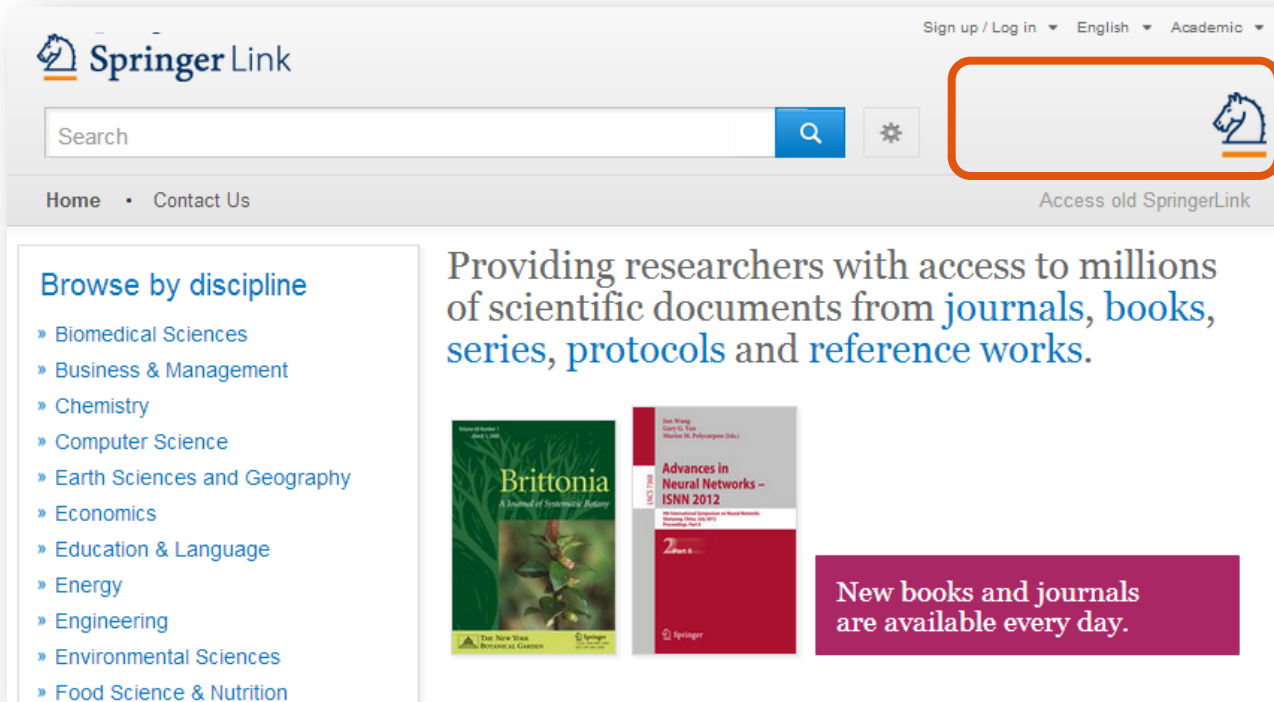
Amelioration of 2,4,6-trinitrobenzene sulfonic acid-induced colitis in mice by immunoregulatory dendritic cells
Journal of Gastroenterology, December 2011

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

機構標識



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

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 - ISNN 2012

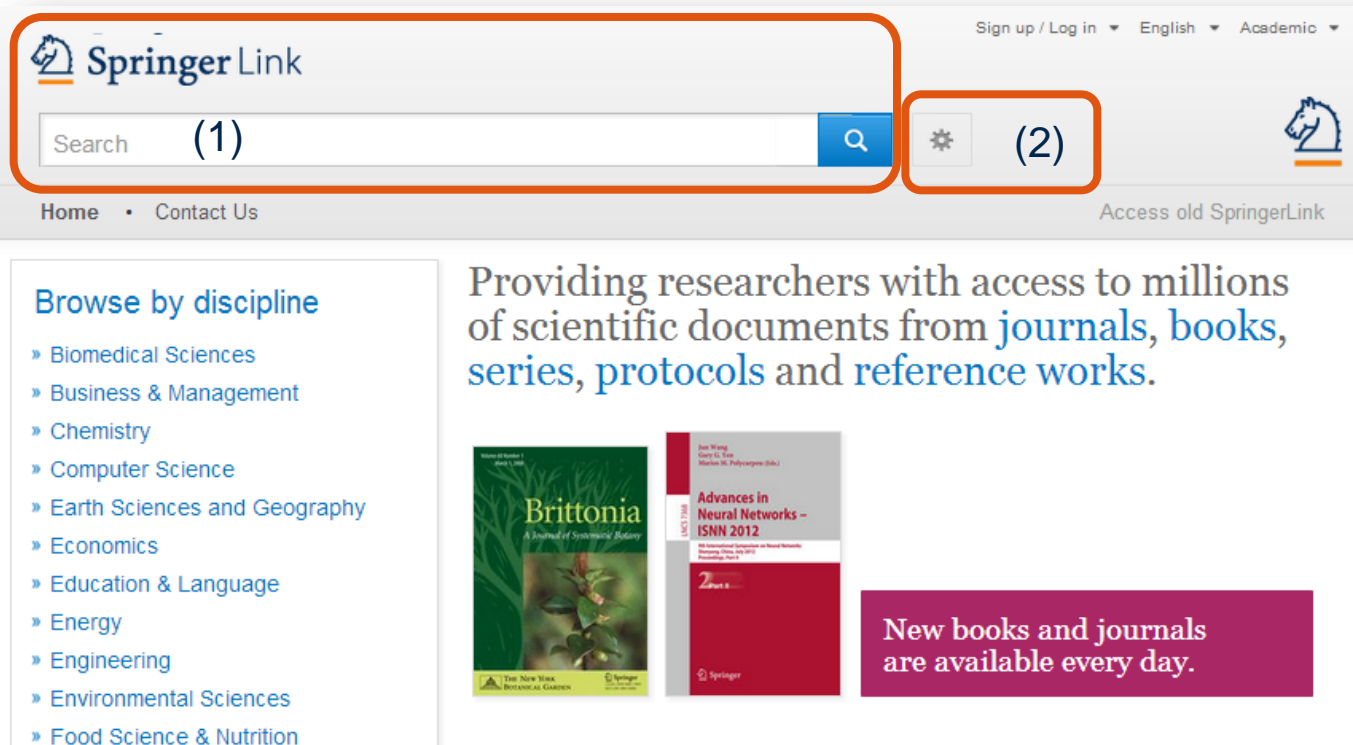
New books and journals are available every day.

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

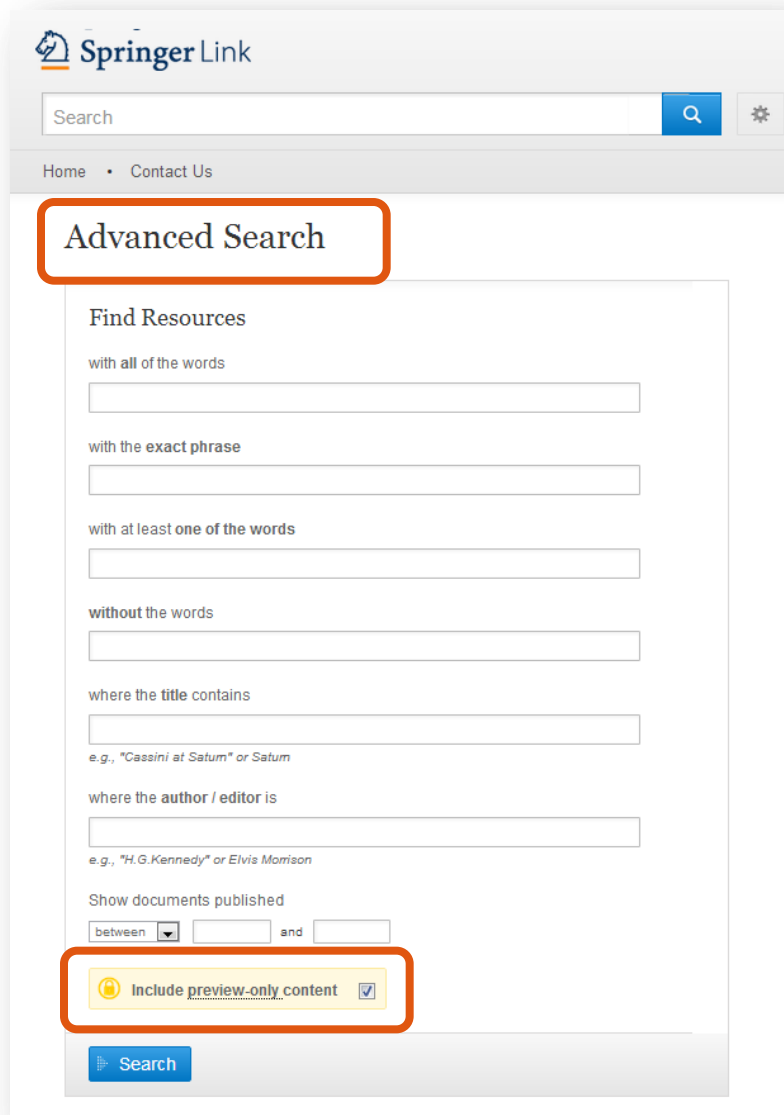


The screenshot shows the SpringerLink homepage. At the top left, the SpringerLink logo is enclosed in an orange box labeled (1). To its right, the search bar contains the text "Search" and a magnifying glass icon. Further right, a settings gear icon is enclosed in an orange box labeled (2). The top right corner features links for "Sign up / Log in", "English", and "Academic". Below the search bar, there are navigation links for "Home" and "Contact Us", and a link for "Access old SpringerLink". The main content area features a large heading: "Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works." Below this, there are two book covers: "Brittonia: A Journal of Systematic Botany" and "Advances in Neural Networks - ISNN 2012". A purple box at the bottom right contains the text: "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 interface. At the top, there is a search bar with a magnifying glass icon and a gear icon for settings. 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:

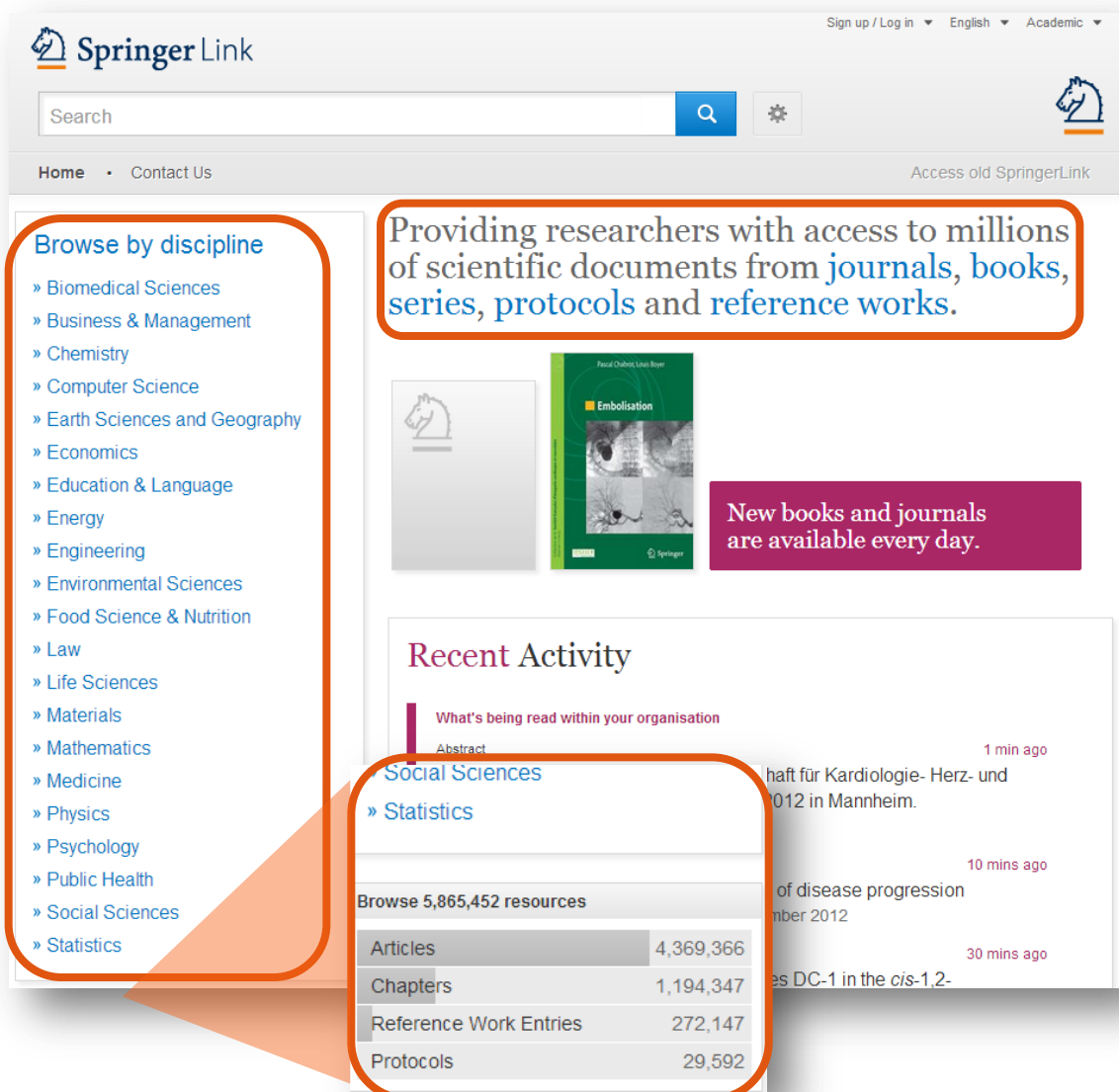
- Find Resources**
 - with all of the words: [input field]
 - with the exact phrase: [input field]
 - with at least one of the words: [input field]
 - without the words: [input field]
 - where the title contains: [input field]
e.g., "Cassini at Saturn" or Saturn
 - where the author / editor is: [input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

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

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 left. On the left side, there is a 'Browse by discipline' menu. A callout box highlights this menu. In the center, there is a banner for 'Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.' Below this is a 'Recent Activity' section with a callout box highlighting the 'Social Sciences' and 'Statistics' categories. At the bottom, there is a table showing the number of resources available for different document types.

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.

Recent Activity

What's being read within your organisation

Abstract 1 min ago

Social Sciences

» Statistics 10 mins ago

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

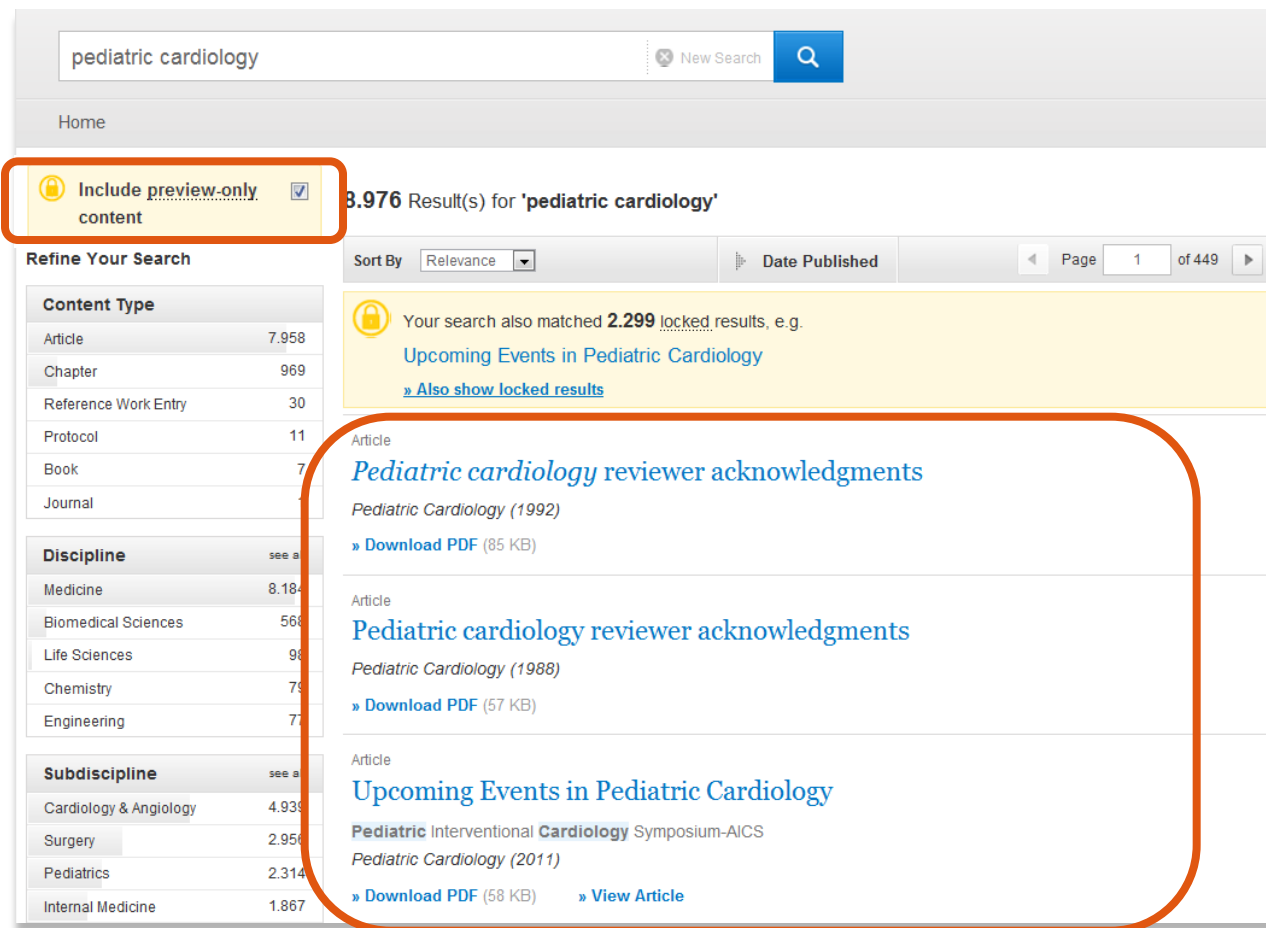
如果您點擊某個學科，您將會進入到該學科的新頁面

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



The screenshot shows the Springer search results page for the query "pediatric cardiology". The search bar at the top contains the query and a "New Search" button. Below the search bar, there is a "Home" link and a yellow box with a lock icon and the text "Include preview-only content" with a checked checkbox. The main search results area shows "3.976 Result(s) for 'pediatric cardiology'". Below this, there is a "Refine Your Search" section with a "Content Type" filter table and a "Discipline" filter table. The "Content Type" table lists various document types with their counts: Article (7,958), Chapter (969), Reference Work Entry (30), Protocol (11), Book (7), and Journal (7). The "Discipline" table lists various disciplines with their counts: Medicine (8,184), Biomedical Sciences (568), Life Sciences (98), Chemistry (75), and Engineering (7). The search results are sorted by "Relevance" and show "Page 1 of 449". A yellow banner with a lock icon and the text "Your search also matched 2.299 locked results, e.g. Upcoming Events in Pediatric Cardiology" is displayed. Below this, three search results are listed, each with a "Download PDF" link. The first result is "Pediatric cardiology reviewer acknowledgments" from "Pediatric Cardiology (1992)" with a "Download PDF (85 KB)" link. The second result is "Pediatric cardiology reviewer acknowledgments" from "Pediatric Cardiology (1988)" with a "Download PDF (57 KB)" link. The third result is "Upcoming Events in Pediatric Cardiology" from "Pediatric Interventional Cardiology Symposium-AICS" and "Pediatric Cardiology (2011)" with a "Download PDF (58 KB)" link and a "View Article" link.

Content Type	Count
Article	7.958
Chapter	969
Reference Work Entry	30
Protocol	11
Book	7
Journal	7

Discipline	Count
Medicine	8.184
Biomedical Sciences	568
Life Sciences	98
Chemistry	75
Engineering	7

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

11.275 Result(s) for 'pediatric cardiology'

Sort By: Relevance | Date Published | Page 1 of 564

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

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

Subdiscipline	
Cardiology & Angiology	4.939
Surgery	2.991
Pediatrics	2.329
Internal Medicine	1.905

Article No Access

Upcoming Events in Pediatric Cardiology (1)

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（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):

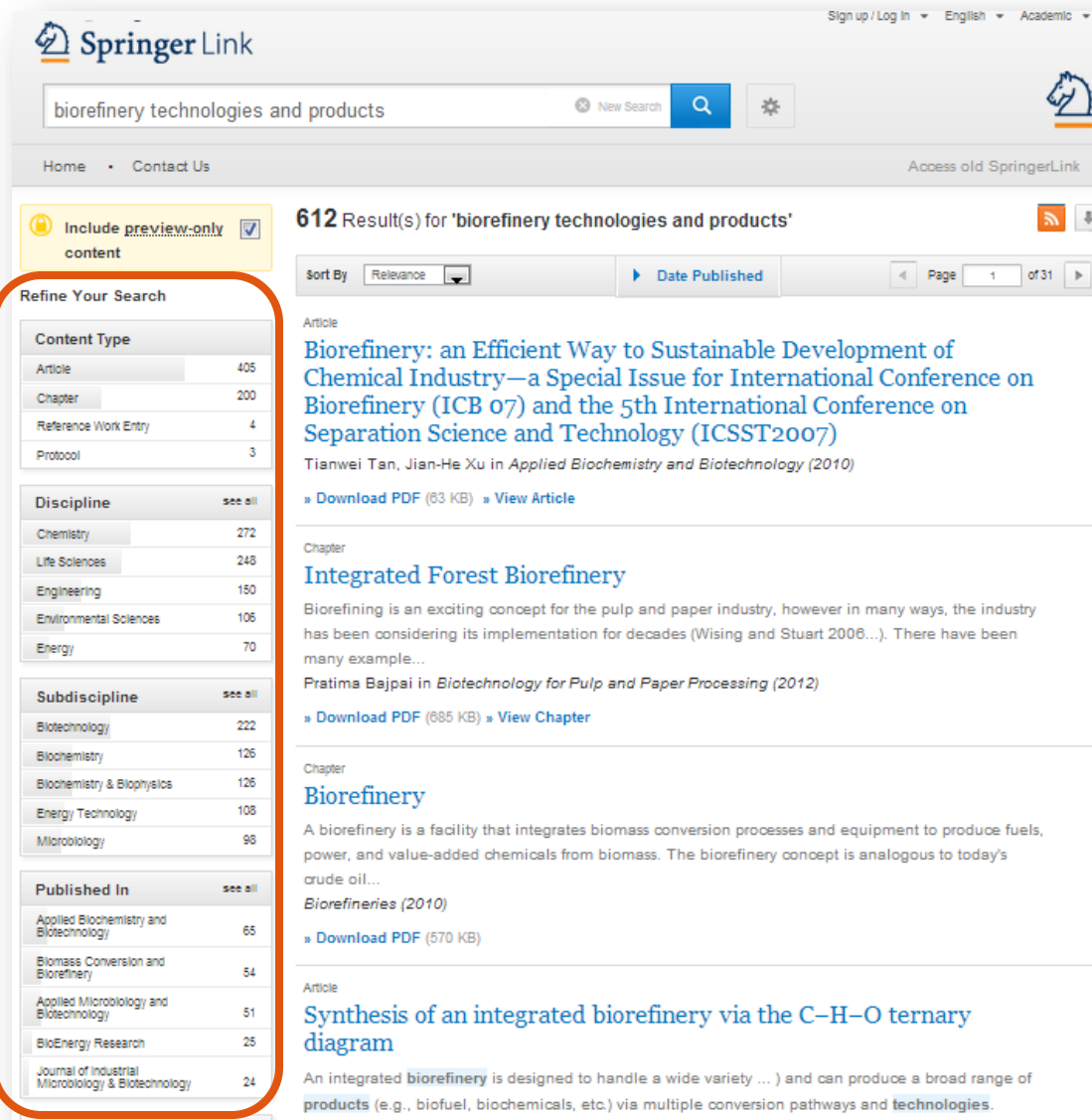
較大的分類:

- 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

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

Include preview-only content

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

Chemistry	272
Life Sciences	245
Engineering	150
Environmental Sciences	106
Energy	70

Subdiscipline

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

Published In

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 (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

253.840 Result(s) for 'oncology'

Sort By Relevance Date Published Page 1 of 12.692

Chapter Relevance 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. Münstedt 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

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

(2) Page 1 of 168

(3) 

3.349 Result(s) for 'mrsa'

Sort By **Relevance** **Date Published**

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，您可以輸入頁碼跳轉到任何頁面

3. 下載列表：

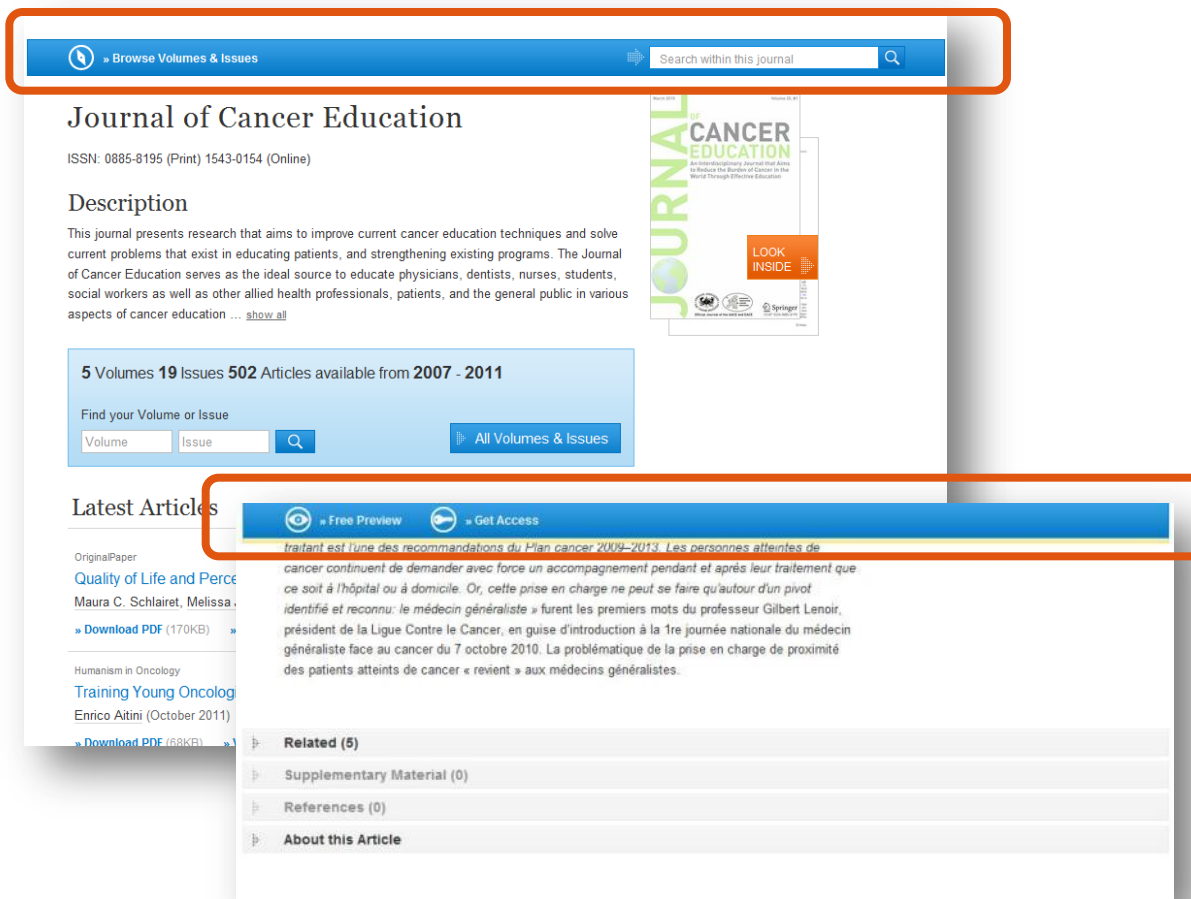
在頁碼右上方，點擊箭頭可以下載CSV格式檔

產品頁面

- 產品頁面-藍色條狀框
- 開放取用標記

- 圖書
- 參考工具書
- 叢書

產品頁面



The screenshot shows the SpringerLink product page for the 'Journal of Cancer Education'. At the top, a blue navigation bar contains a home icon, the text 'Browse Volumes & Issues', and a search box with the placeholder 'Search within this journal'. Below this, the journal title 'Journal of Cancer Education' is displayed, along with its ISSN (0885-8195 Print, 1543-0154 Online) and a 'Description' section. A light blue box highlights the volume and issue information: '5 Volumes 19 Issues 502 Articles available from 2007 - 2011'. Below this is a search bar for 'Find your Volume or Issue' with 'Volume' and 'Issue' dropdowns, a search icon, and an 'All Volumes & Issues' button. The 'Latest Articles' section is visible, with a blue callout box highlighting the 'Free Preview' and 'Get Access' options for an article. The article title is 'Quality of Life and Perception of Cancer Care: A French Study' by Maura C. Schlairet, Melissa A. ... The article abstract is partially visible. Below the article, there are links for 'Download PDF (170KB)' and 'Download PDF (69KB)'. At the bottom, there are sections for 'Related (5)', 'Supplementary Material (0)', 'References (0)', and 'About this Article'.

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Volume 2011 / 2011 - Volume 2012 / 2012

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Phase computations and phase models for discrete molecular oscillators

Onder Suvak, Alper Demir

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Abstract

» 1. Introdu

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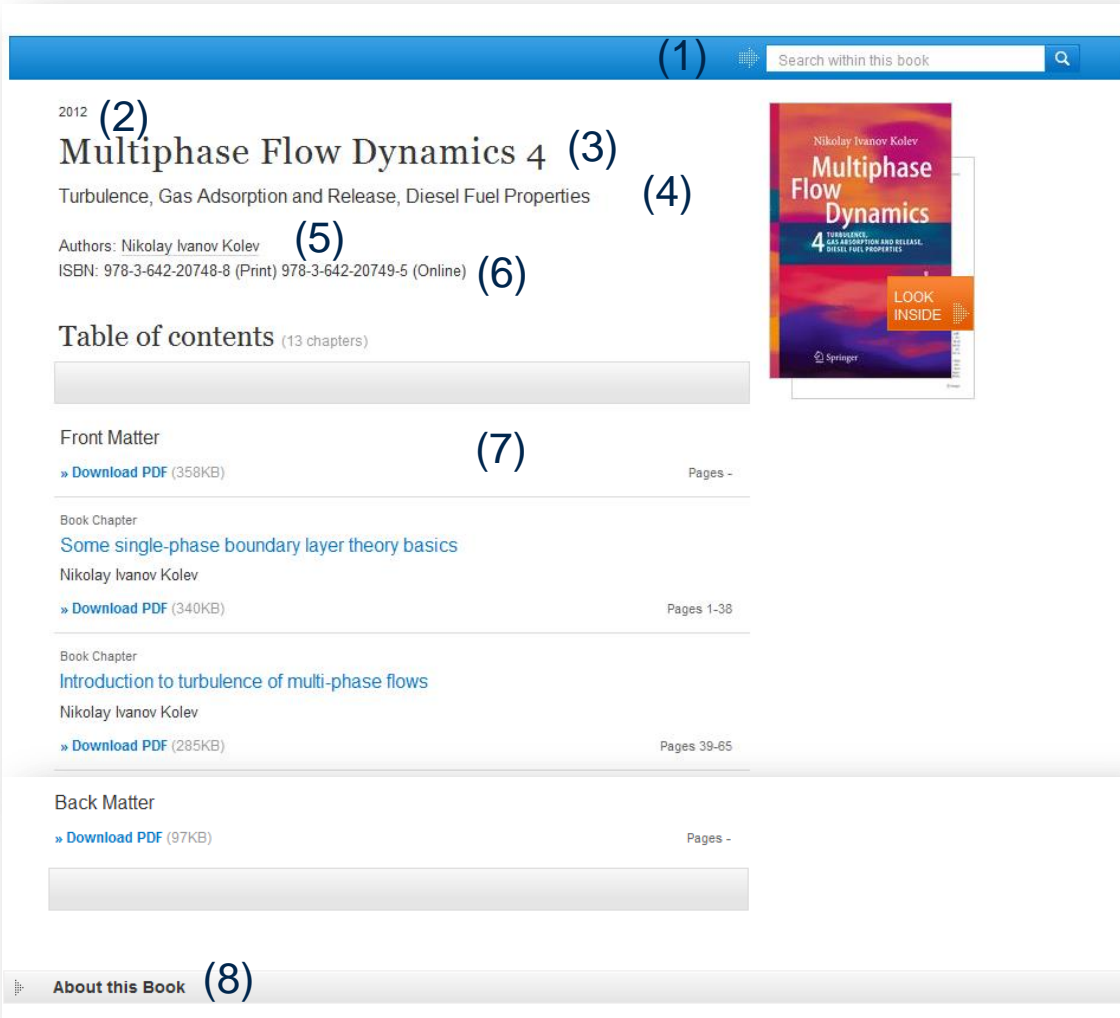
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» 1. Introdu

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圖書首頁



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2012 (2)
Multiphase Flow Dynamics 4 (3)
Turbulence, Gas Adsorption and Release, Diesel Fuel Properties (4)

Authors: Nikolay Ivanov Kolev (5)
ISBN: 978-3-642-20748-8 (Print) 978-3-642-20749-5 (Online) (6)

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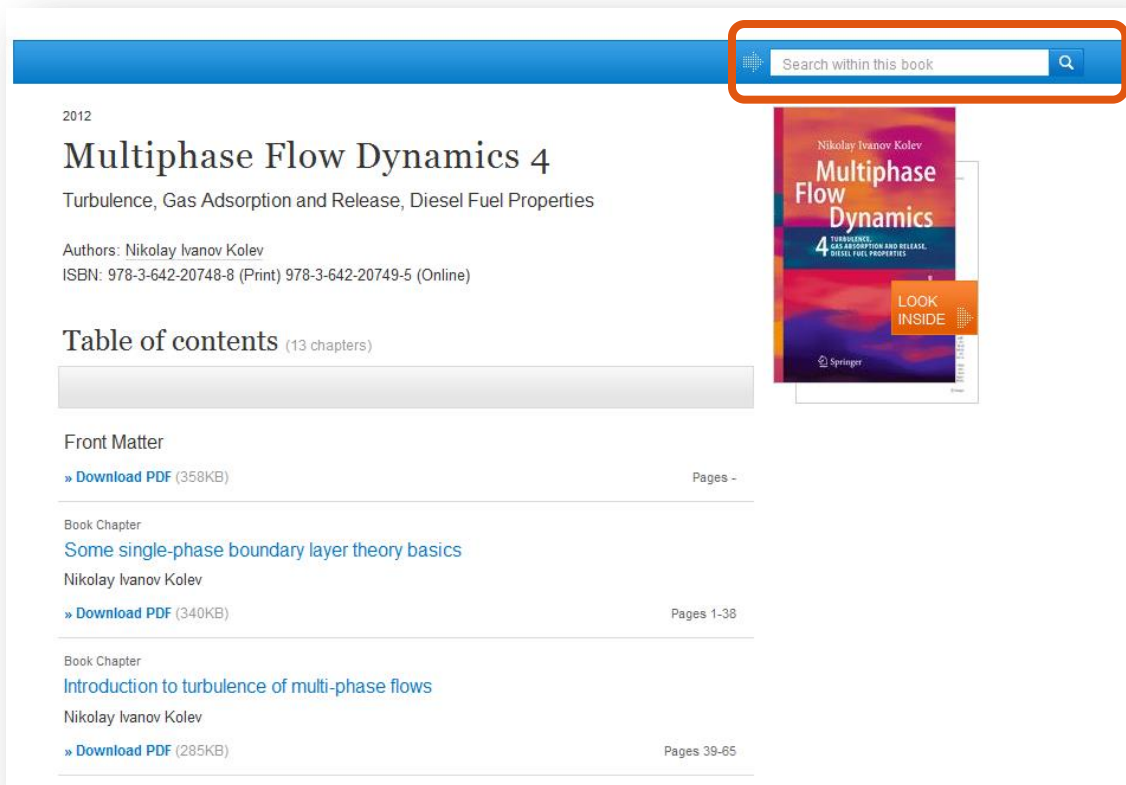
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2012

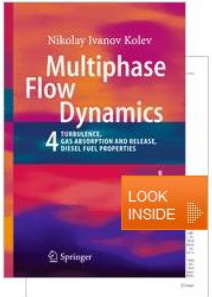
Multiphase Flow Dynamics 4

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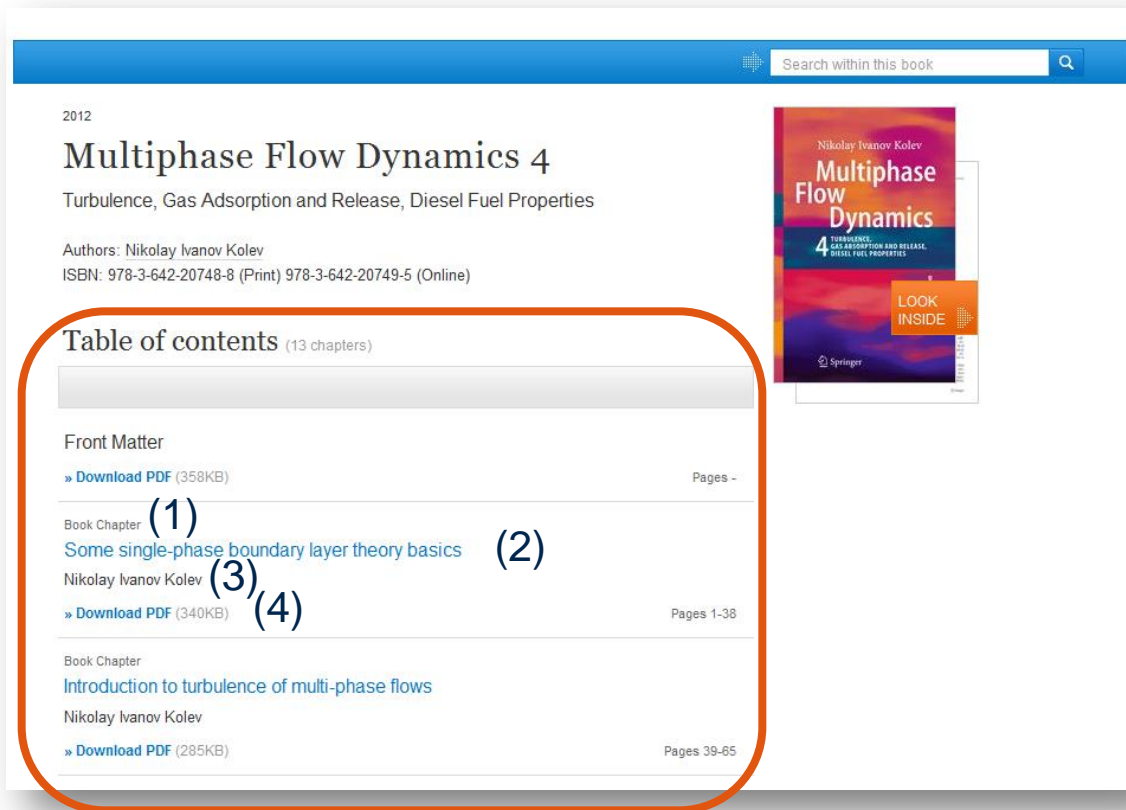


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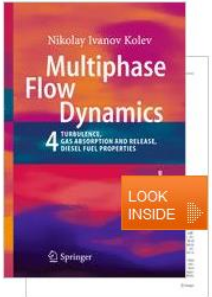
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Vector Optimization
Volume 1 2012

Recent Developments in Vector Optimization

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

Table of contents (14 chapters)

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	Gabriele Eichfelder, Johannes Jahn			
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Theoretical Computer Science
Lecture Notes in Computer Science Volume 2202, 2001, pp 17-37


Filter Models and Easy Terms

Fabio Alessi, Mariangiola Dezani-Ciancaglini, Furio Honsell

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Abstract (3)

We illustrate the use of intersection types as a tool for synthesizing λ -models which exhibit special purpose features. We focus on semantical proofs of *easiness*. This allows us to prove that the class of λ -theories induced by graph models is strictly included in the class of λ -theories induced by non-extensionsal filter models.



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

(1)

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.

(3)



Within this Chapter:

- Introduction
- Pre-Orders and Partial Orders
- Optimality Concepts in Linear Spaces
- Optimality Concepts in Set Optimization
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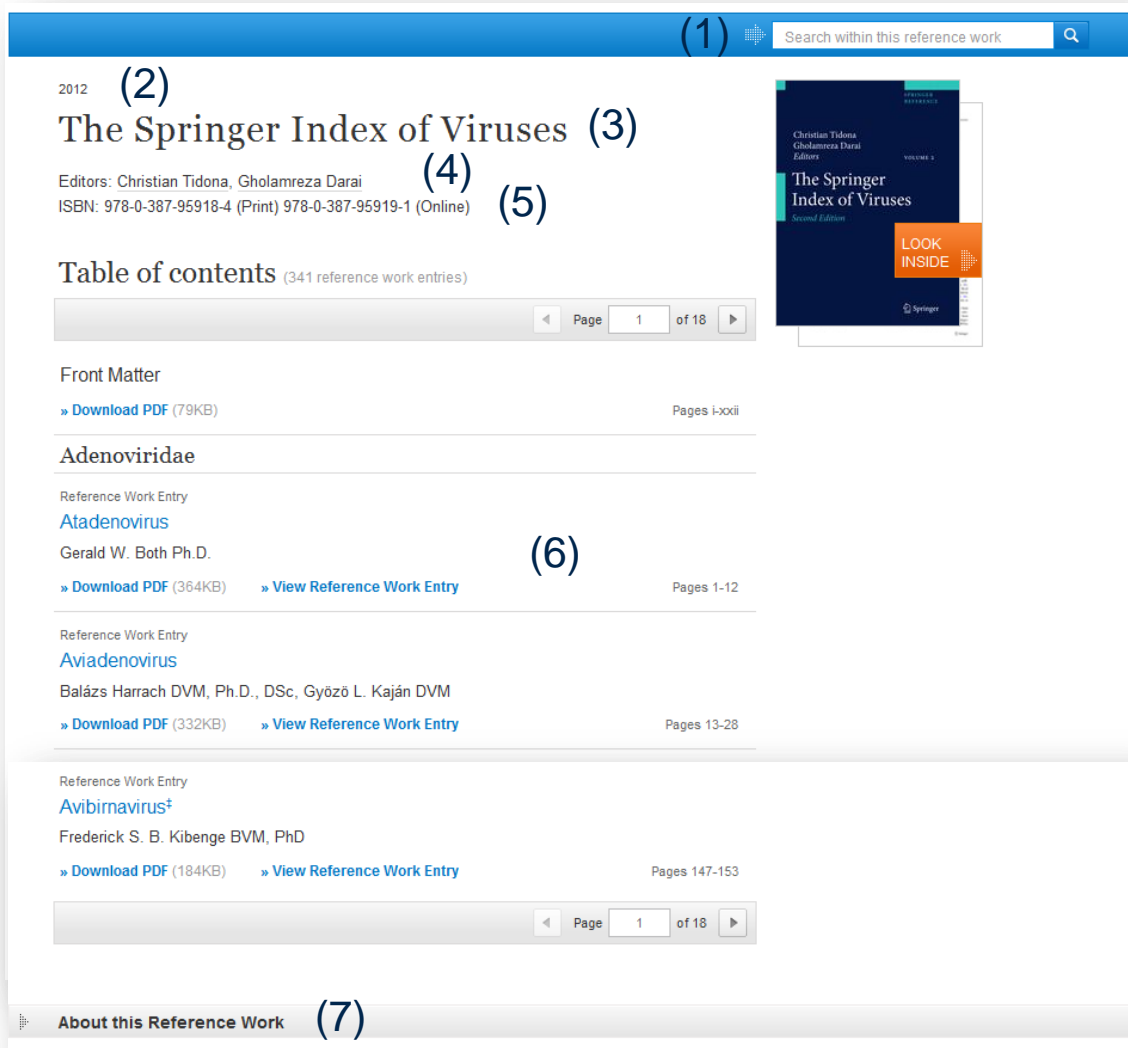
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2012 (2)
The Springer Index of Viruses (3)
Editors: Christian Tidona, Gholamreza Darai (4)
ISBN: 978-0-387-95918-4 (Print) 978-0-387-95919-1 (Online) (5)

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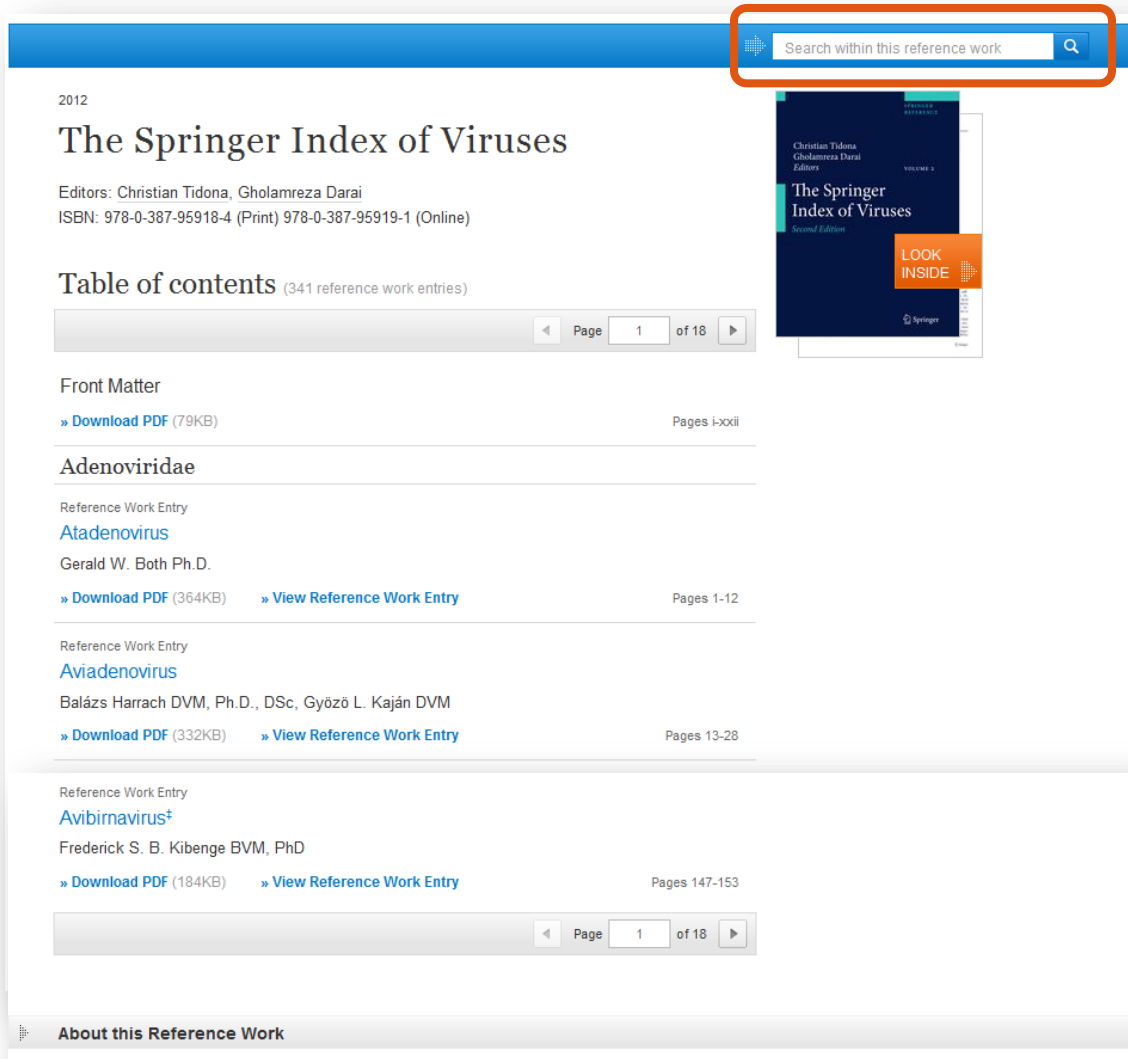
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2012

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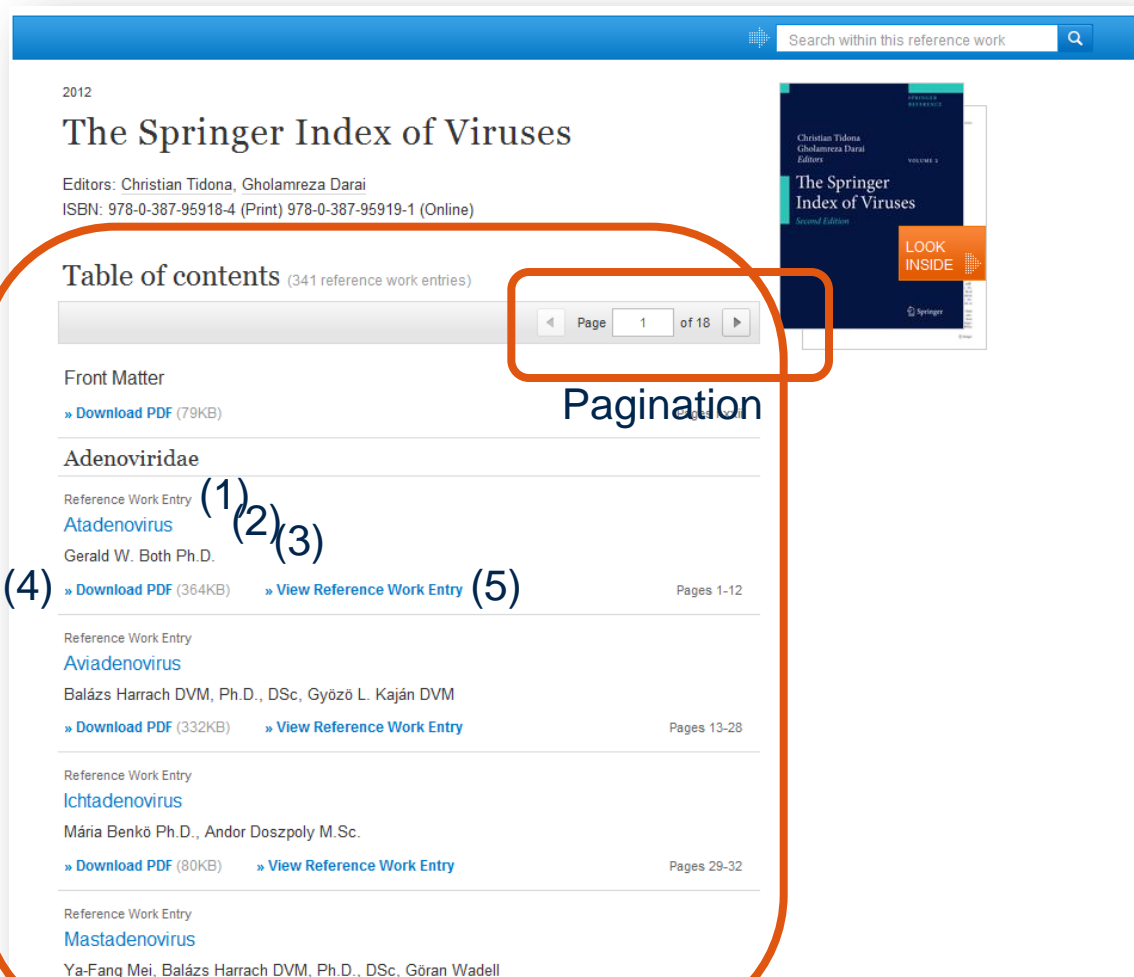
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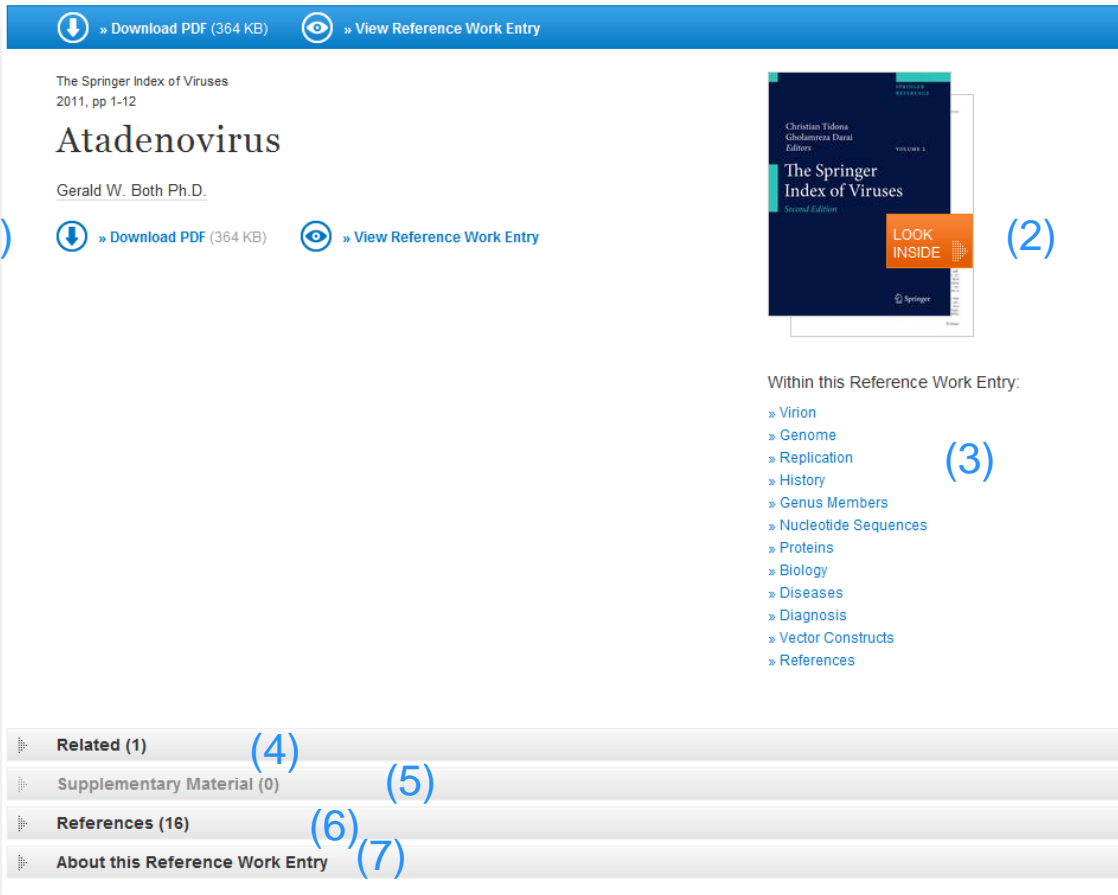
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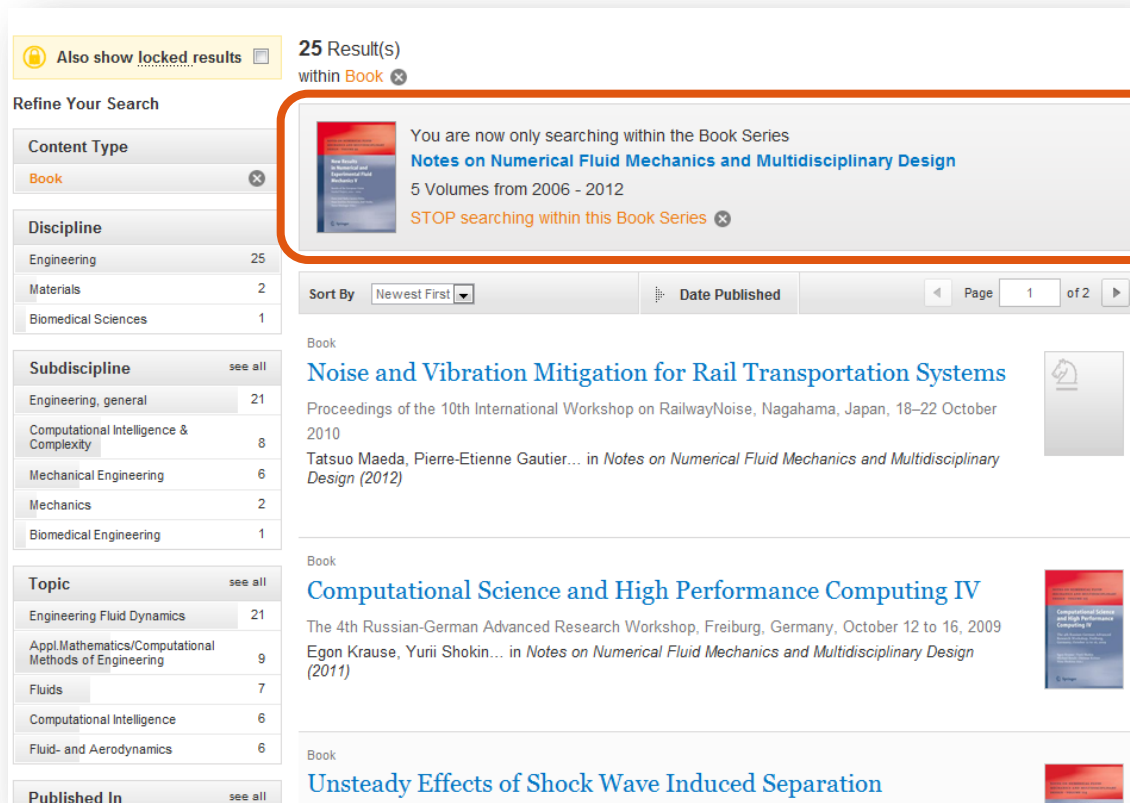
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