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April 2017

Asian Institute of Technology

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**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

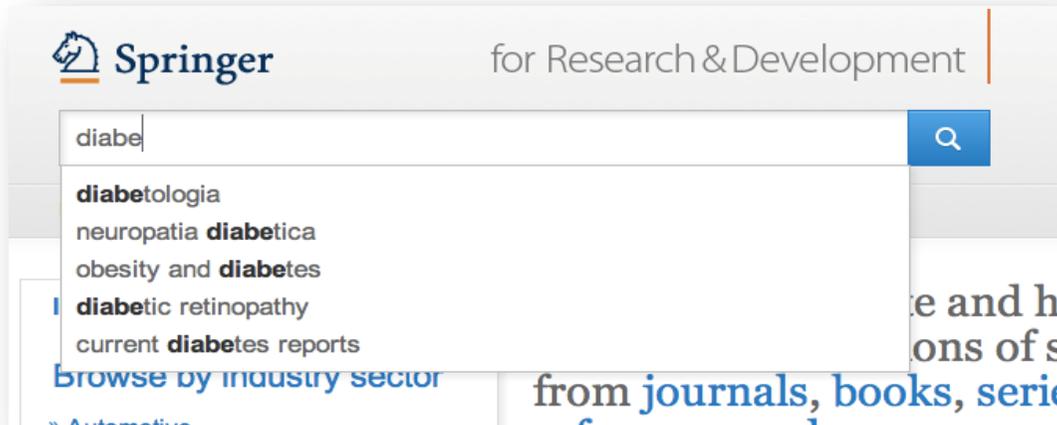
**New books and journals are available every day.**

**Recent Activity**

What's being read within your organisation

# SpringerLink is designed with you in mind!

Auto-suggest in search (based on Google keyword data)



Two page preview of every document (not just recent book chapters)

Limit search results to only accessible content



# And more features

Links directly to sections of HTML

## Within this Article:

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



## Results

### Patient characteristics

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

**Table 1** Baseline demographics and clinical characteristics of the seven patients seen in this initial cohort.

Baseline characteristics
Patients evaluable/enrolled
Gender: Female %

## Improved HTML

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

### Review

## Validation of macro

Michal Hammel<sup>1</sup> ✉

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

✉ Michal Hammel  
Email: [mhammel@lbl.gov](mailto:mhammel@lbl.gov)

Received: 4 March 2012 Revised: 22 April 2012

### Abstract

The dynamics of macromolecular conformations are critical to the action of cellular processes. In this review, we combine solution-scattering data with high-resolution structures to calculate theoretical SAXS profiles. We use minimal ensemble search (MES), enhance computational techniques used for conformational sampling, and the knowledge gained from ensemble search to improve X-ray crystallography, NMR, and computational methods.

**Keywords** Small-angle X-ray scattering (SAXS)

Special Issue: Scattering techniques in biophysics

Search

Home • Contact Us

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

### Review

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

Michal Hammel<sup>1</sup> ✉

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

✉ Michal Hammel  
Email: [mhammel@lbl.gov](mailto:mhammel@lbl.gov)

Received: 4 March 2012

Revised: 22 April 2012

Accepted: 5 May 2012

Published online: 26 May 2012

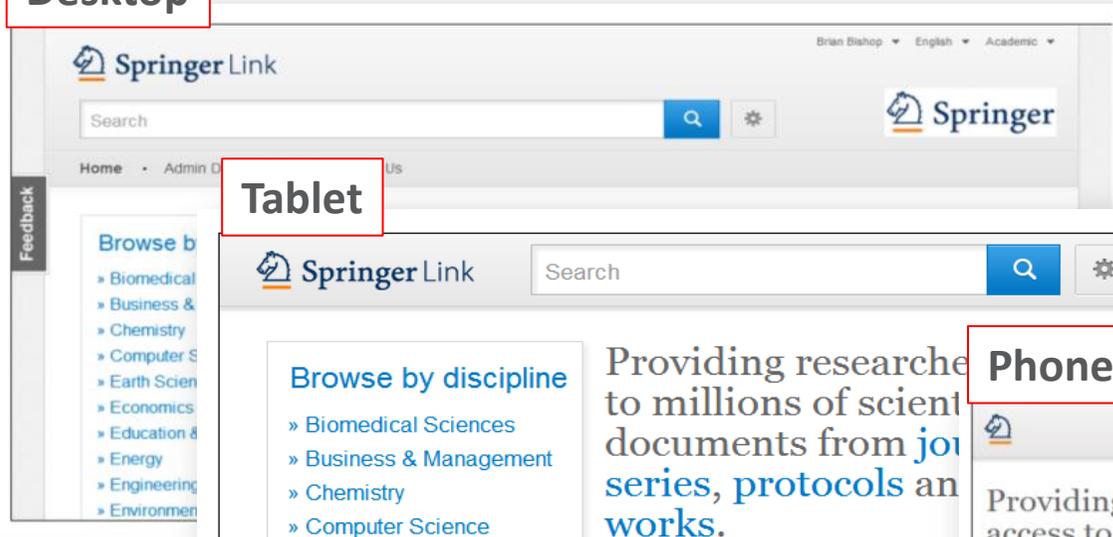
### Abstract

The dynamics of macromolecular conformations are critical to the action of cellular processes. In this review, we combine solution-scattering data with high-resolution structures to calculate theoretical SAXS profiles. We use minimal ensemble search (MES), enhance computational techniques used for conformational sampling, and the knowledge gained from ensemble search to improve X-ray crystallography, NMR, and computational methods. This review addresses theoretical and practical concepts, concerns, and considerations in conjunction with computational methods to productively combine solution-scattering data with high-resolution structures. I discuss the principal means of direct identification of macromolecular conformations from SAXS data followed by critical concerns about the methods used to calculate theoretical SAXS profiles from high-resolution structures. The SAXS profile is a direct interrogation of the macromolecular conformation and techniques such as, for example, minimal ensemble search (MES), enhance computational techniques used for conformational sampling, and recent developments in computational techniques used for conformational sampling. These techniques provide a basis for assessing the level of the flexibility within a sample. This review approaches sacrifice atomic detail, the knowledge gained from ensemble analysis, and developing hypotheses and guiding biochemical experiments. Examples of the use of these techniques are provided.

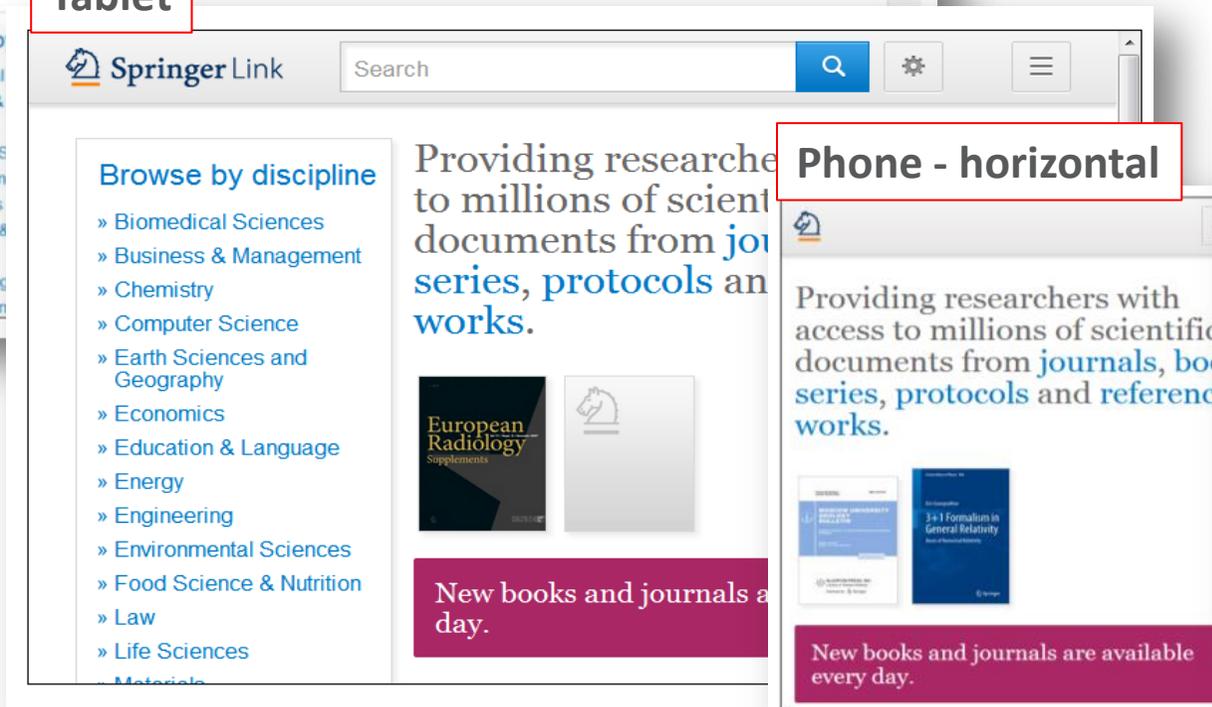
# Our platform is mobile optimized

Web responsive design allows for optimal viewing on all devices

## Desktop



## Tablet



## Phone - horizontal



## Phone - vertical



# Homepage

- 3 Parts: Search – Browse – Content
- Color scheme for recognized or anonymous user
- Becoming recognized
- Anonymous User
- Company User
- Company Logo
- Search functionality
- Browse by sector of industry
- Browse by type of content

# Homepage

The screenshot shows the Springer Link homepage. A red box highlights the top navigation bar containing the Springer Link logo, user options (Sign up / Log in), language (English), and user type (Academic). Below this is a search bar with a search button and a settings gear. Another red box highlights the 'Browse by discipline' sidebar, which lists various scientific fields. A third red box highlights a central banner that reads 'Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.' Below the banner are two book covers and a purple box stating 'New books and journals are available every day.' At the bottom, a 'Recent Activity' section is visible, showing a list of articles and news items with their respective timestamps.

**Springer Link** Sign up / Log in English Academic

Search 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** **Content**

**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®

**Browse**

The homepage is divided into 3 parts:

**Search** functionality

**Browse** functionality

**Content** offered according to your profile

# Homepage

Springer Link

Sign up / Log in English Academic

Search

Home Contact Us Access old SpringerLink

Browse by discipline

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

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

(1)

New books and journals are available every day.

Recent Activity

What's being read within your organisation

Chapter  
Univariate Renditeverteilungen  
Finanzmarktstatistik, 2006

Original Papers  
Characterization of protein involvement in rabies virus bi

## Content Area

Within the content area there is a **color scheme** to indicate if you are from a recognized institution or not:

1. The **orange color** indicates an **anonymous user**.
2. The **purple color** indicates a **recognized user**.

Springer Link

Angela Timmerman English Academic

Search

Home Admin Dashboard 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

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

(2)

New books and journals are available every day.

Recent Activity

What's being read within your organisation

Chapter  
Protoatmospheres

10 mins ago

# Homepage: Recognized vs Anonymous User

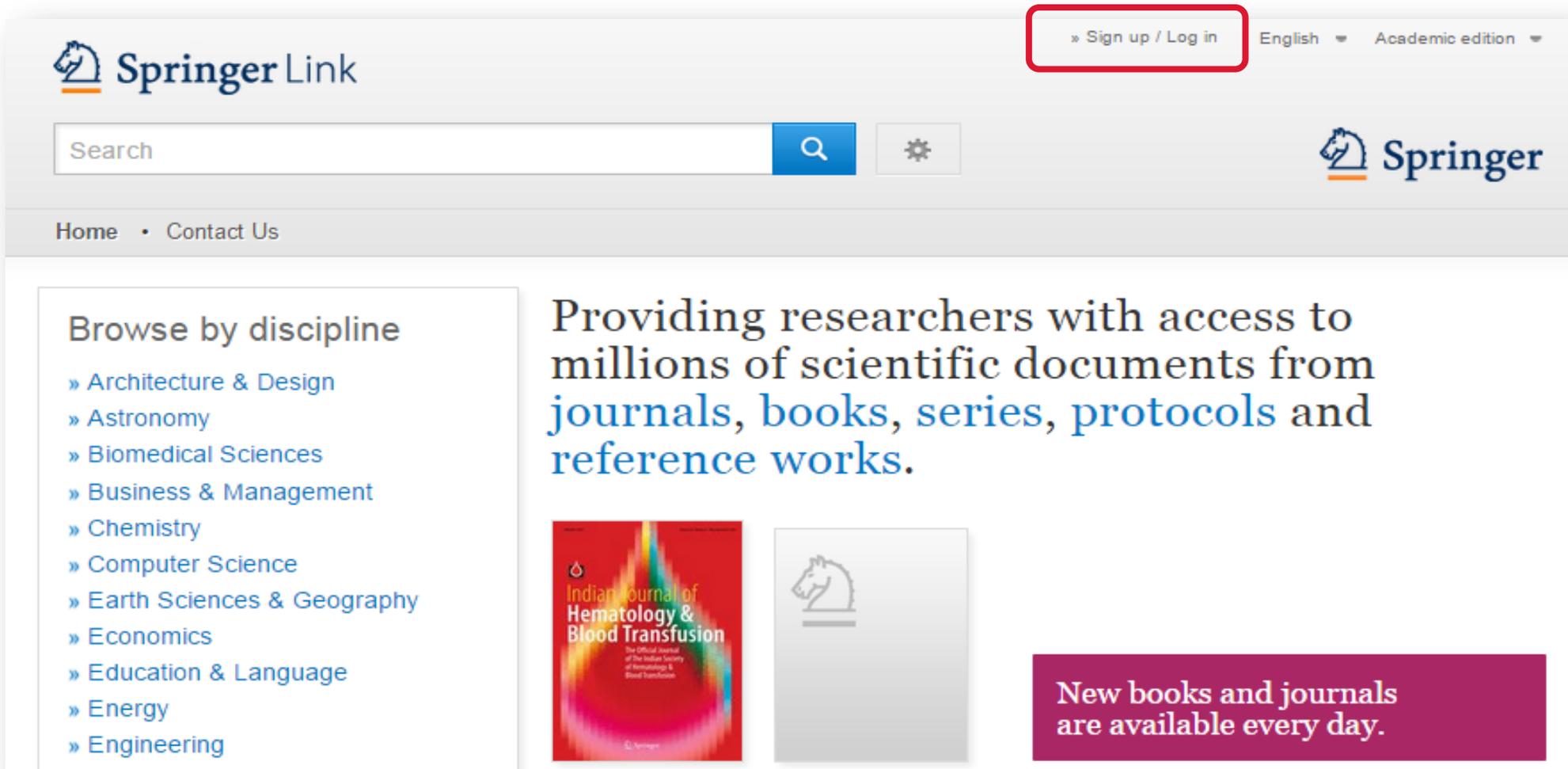
## Becoming Recognized

When you visit <http://link.springer.com> from a recognized IP range, you are automatically recognized as part of that institution.

Individual users can also be recognized by logging in with their email and password.

1. Click on Sign Up/Login
2. Sign up to create an account
3. Or log in to your collection from anywhere in the world.

# Sign-up / Log-in



The screenshot shows the Springer Link website interface. At the top right, a red box highlights the « Sign up / Log in » link. Below the navigation bar is a search bar with a magnifying glass icon and a settings gear icon. The main content area features a sidebar with a list of disciplines and a central promotional message.

» Sign up / Log in English Academic edition

Springer Link

Search

Springer

Home • Contact Us

**Browse by discipline**

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

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

Indian Journal of Hematology & Blood Transfusion

New books and journals are available every day.

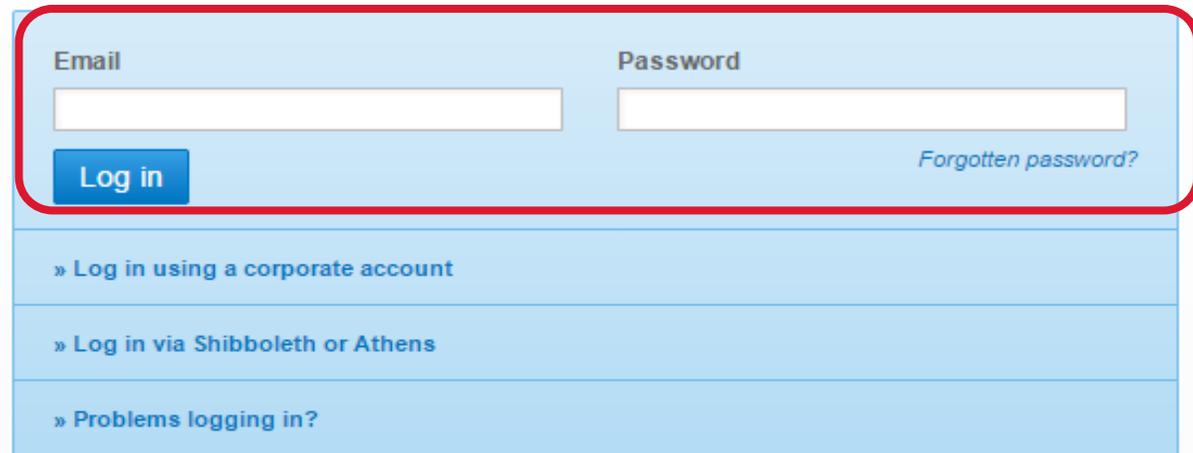
# Institutional / Athens log-in

Registered users can log-in directly.

Or choose Shibboleth or Athens

Or log in with your corporate account

## Welcome back. Please log in.



The screenshot shows a login form with a light blue background. At the top, it says "Welcome back. Please log in." Below this, there are two input fields: "Email" and "Password". The "Email" field is on the left and the "Password" field is on the right. Below the "Email" field is a blue button labeled "Log in". To the right of the "Password" field is a link that says "Forgotten password?". Below the input fields and button, there are three links, each preceded by a right-pointing chevron: "» Log in using a corporate account", "» Log in via Shibboleth or Athens", and "» Problems logging in?". The entire login form area is enclosed in a red rounded rectangular border.

## Don't have an account?

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

Your Springer account is shared across many Springer sites including SpringerLink, Springer Materials, Adis Insight, and Springer.com.

## Create a new account

If you are not yet registered with SpringerLink, it is easy to do!

Your Springer account will also be valid on springer.com

### Don't have an account?

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

Your Springer account is shared across many Springer sites including SpringerLink, Springer Materials, Adis Insight, and Springer.com.

First Name

Last Name

Email Address

*Your email address will be kept private*

Password

Password Confirmation

*Minimum 6 characters including at least 1 letter and 1 number*

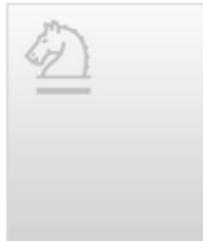
By creating an account you agree to accept our [terms of use](#)

Create account

Clear

## Homepage – Anonymous user

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.

### Anonymous User:

If you enter the site as an anonymous user also the “**Activity**” box is colored in orange.

In that area you get the **most recent overall downloads** listed.

### 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

## Homepage – Recognized institutional user

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

### Institutional User:

If you enter the site as company user the “**Activity**” box is colored in pink.

In that area you see the **most recent downloads within your institution** listed.

# Institutional logo

Springer Link

Search [magnifying glass icon] [gear icon]

Home • Admin Dashboard • Contact Us

**Browse by discipline**

- » Architecture & Design
- » Astronomy
- » Biomedical Sciences
- » Business & Management
- » Chemistry
- » Computer Science
- » Earth Sciences & 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.

ADVANCES IN ATMOSPHERIC SCIENCES

Live Reference – Constantly updated  
Springer.com/  
SpringerReference

New books and journals are available every day.

## Institutional Logo

Your institution's logo should be visible on all pages.

The SpringerLink Admin can do this from the "Admin Dashboard".

# Search

Springer Link (1) Sign up / Log in English Academic

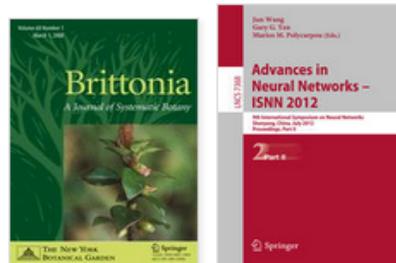
Search (2)

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.**



**New books and journals are available every day.**

## Search:

1. Most users access our content through the search functionality.

The search box is visible on every page.

2. Advance search options & search help are available as well.

# Advance search options

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**

Further narrow your search by using the Advance Search options. You can limit your search to only content accessible to your institution.

# Browse

The screenshot shows the Springer Link website. At the top, there is a search bar and navigation links for 'Sign up / Log in', 'English', and 'Academic'. Below the search bar, there are links for 'Home' and 'Contact Us', and a link to 'Access old SpringerLink'. The main content area is divided into several sections:

- Browse by discipline:** A list of disciplines including 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.
- Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.** A red-bordered box highlights this text.
- New books and journals are available every day.** A purple-bordered box highlights this text, accompanied by a book cover for 'Embolisation' by Pascal Chobon, Louis Boyer.
- Recent Activity:** A section titled 'What's being read within your organisation' showing a list of recent activity items with timestamps like '1 min ago', '10 mins ago', and '30 mins ago'.
- Browse 5,865,452 resources:** A table showing the number of resources available for different content types:

Content Type	Number of Resources
Articles	4,369,366
Chapters	1,194,347
Reference Work Entries	272,147
Protocols	29,592

## Browse:

The browse functionality to the left is divided into **disciplines**.

If you click on the topic of your choice you will end up on the entry page for your discipline.

You can also browse by content type.

Below the discipline navigation you find a list of smallest content types:

(Journal ) Articles

References Work Entries

(Book) Chapters

Protocols

# Search results page

pediatric cardiology

Home

Include preview-only content

2,976 Result(s) for 'pediatric cardiology'

Sort By   Page 1 of 449

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

**Refine Your Search**

**Content Type**

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](#)

## Search Results:

To the right you see your search results listed.

By default, you will see results covering all content within SpringerLink.

If you like to see only the results you have access to, you simply need to un-check the yellow box above the search result filter options to the right.

# Search Results Page

(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   Page  of 564

**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 \(57 KB\)](#)

## Preview-only Results:

1. Preview-only results are displayed with the color yellow in the background.

2. If you only want to see only results you have access to uncheck the yellow box above the search filters.

# Search results page

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](#)

## Structure of list items within a search result page:

1. Type of content
2. Title of list item
3. Description
4. Author of list item
5. Published in which product
6. Download (full-text) PDF or view HTML if available

# Search results page

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)*



## Type of content

The following types of content may be listed in a search result (1):

### Bigger Units:

- Series
- Book
- Journal
- Reference Work

### Smallest Units:

- Chapter
- Protocol
- Article
- Reference Work Entry

# Search Results Page

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	180
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**.

## Filter Options:

To the left you will find pre-defined filter options that help you to optimize your search result.

The following filter options are available:

Content type

Discipline

Sub-discipline

Published in

Author

Language

# Search Results Page

**338,395** Result(s)  
within **Business & Management** ×

Sort By **Newest First** ▼ **Date Published** ▼ Page **1** of 18,920

Show documents published between **1852** and **2015** 🔍  
(Available 1852 - 2015)

Journal  
**Small Business Economics**  
Volume 1 / 1989 - Volume 45 / 2015



Article  
**Productivity growth persistence: firm strategies, size and system properties**  
This paper investigates the dynamics of productivity in a large sample of Italian manufacturing firms, focusing on the determinants of firm-level persistence in time of high total factor productivity (TFP) gro...  
Cristiano Antonelli, Francesco Crespi, Giuseppe Scellato in *Small Business Economics* (2015)

## Sort by option:

By default search results are sorted by **newest first**.

Further sorting options are:

- Newest First
- Oldest First

You may also choose to search within a specific date range.

# Search Result Page

**10,966** Result(s)  
within [Business Information Systems](#) [Business & Management](#) [Article](#)

Sort By  [Date Published](#) Page  of 549

Article  
[Exploiting diversity of usage to enhance user equipment energy efficiency in LTE networks](#)  
Energy efficiency is widely recognized as an important factor for future cellular networks. For mobile devices, energy efficiency leads to extended battery life. Existing works consider battery to be equally i...  
Tuan Ta, John S. Baras in *Telecommunication Systems (2015)*  
[» Download PDF \(1082 KB\)](#) [» View Article](#)



## Download List:

Above the pagination you will see an arrow displayed that allows you to download the search result as csv file.

## RSS Feed:

You may subscribe to an RSS feed for your search results page by clicking the orange button.

# Product Pages

- Product Pages - Blue Bar
- Open Access Indicators
- Journal
- Book
- Reference Work
- Series
- Protocols

# Product Pages

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

- Top Blue Bar:** Contains a home icon, the text "Browse Volumes & Issues", a search input field with the placeholder "Search within this journal", and a search icon.
- Bottom Blue Bar:** Contains a magnifying glass icon, the text "Free Preview", a right-pointing arrow, the text "Get Access", and a left-pointing arrow.

The page content includes:

- Journal of Cancer Education** (ISSN: 0885-8195 (Print) 1543-0154 (Online))
- Description:** This journal presents research that aims to improve current cancer education techniques and solve current problems that exist in educating patients, and strengthening existing programs. The Journal of Cancer Education serves as the ideal source to educate physicians, dentists, nurses, students, social workers as well as other allied health professionals, patients, and the general public in various aspects of cancer education ... [show all](#)
- 5 Volumes 19 Issues 502 Articles available from 2007 - 2011**
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Volume 2011 / 2011 - Volume 2012 / 2012

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This article is part of  
Computational Systems Biology  
EURASIP Journal on Bioinformatics and Systems Biology  
June 2012, 2012:6,  
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## EURASIP Journal on Systems Biology

ISSN: (Print) 1687-4153 (Online)

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Onder Suvak, Alper Demir

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# Book Homepage

(1)

(2) 2007

(3) **Multiphase Flow Dynamics**

(4) Fundamentals

(5) **Authors:** Nikolay I. Kolev PhD., DrSc.  
ISBN: 978-3-540-69832-6 (Print) 978-3-540-69833-3 (Online)

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# Book Homepage

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)

(2)	Book Chapter	Front Matter	(1)	No Access	Pages i-xxiv
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Recent Developments in Vector Optimization  
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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)

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# Book Chapter

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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

🔍 » Look Inside   🔑 » Get Access   (2)

### 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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Editors: [William D. Figg](#), [Cindy H. Chau](#), [Eric J. Small](#)  
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**ISBN** 9783319000251 · 9783319000268  
**DOI** 10.1007/978-3-319-00028-8 [or](#)  
**DISCIPLINES** Computer Science · Engineering  
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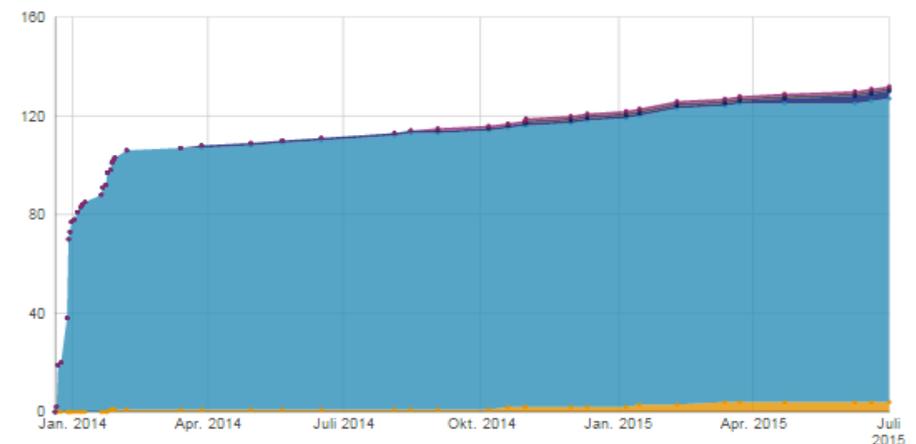
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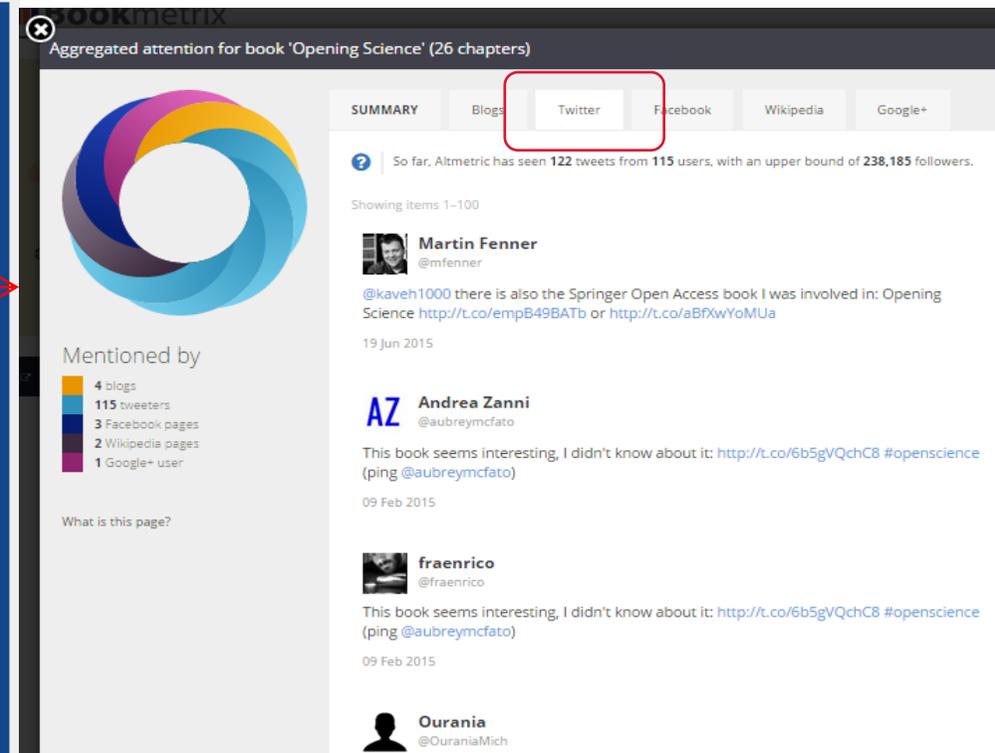
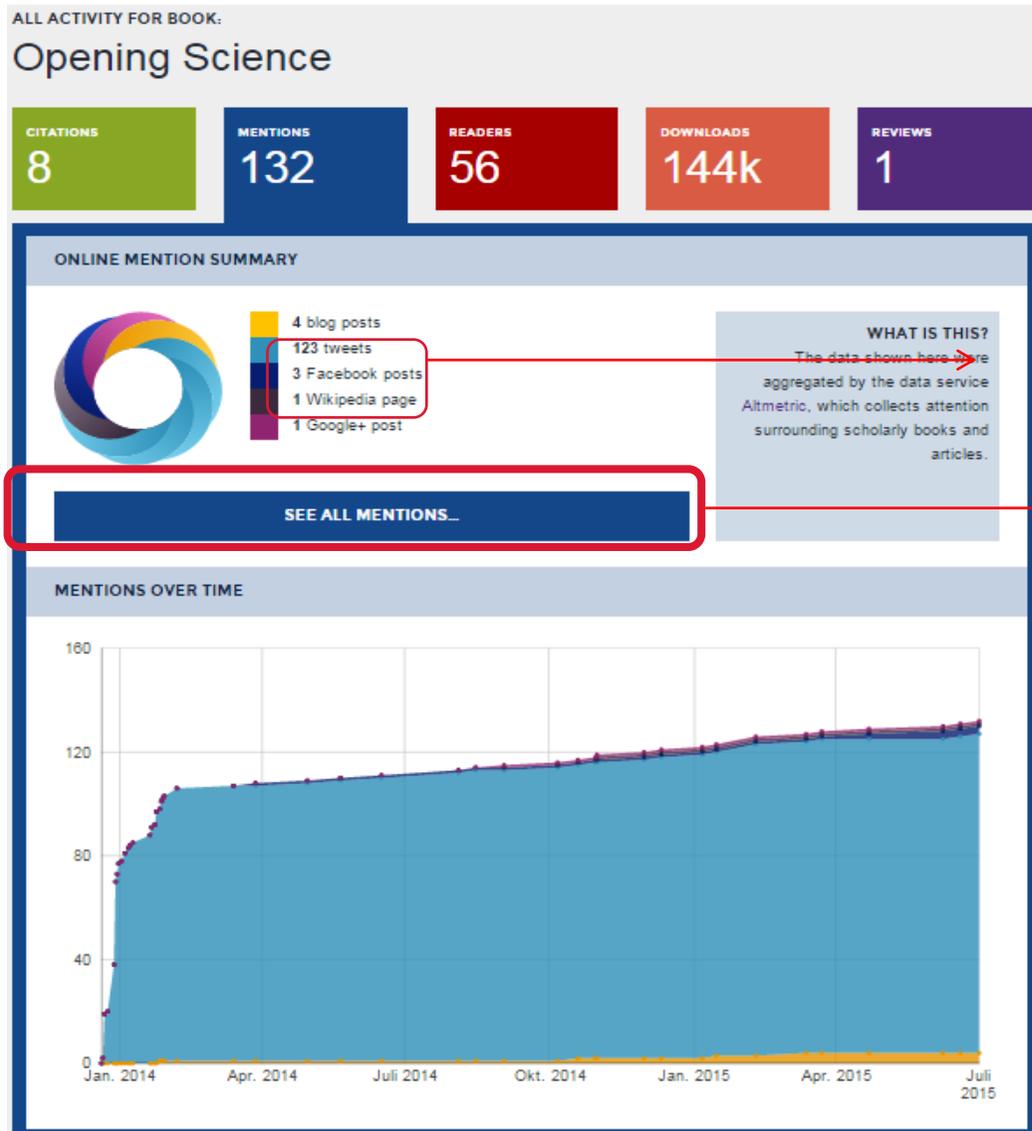
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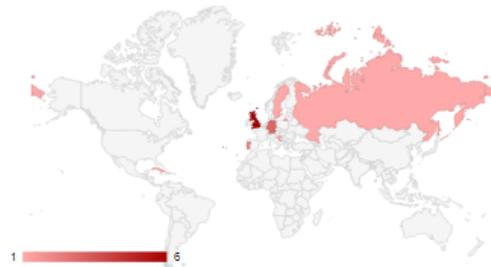
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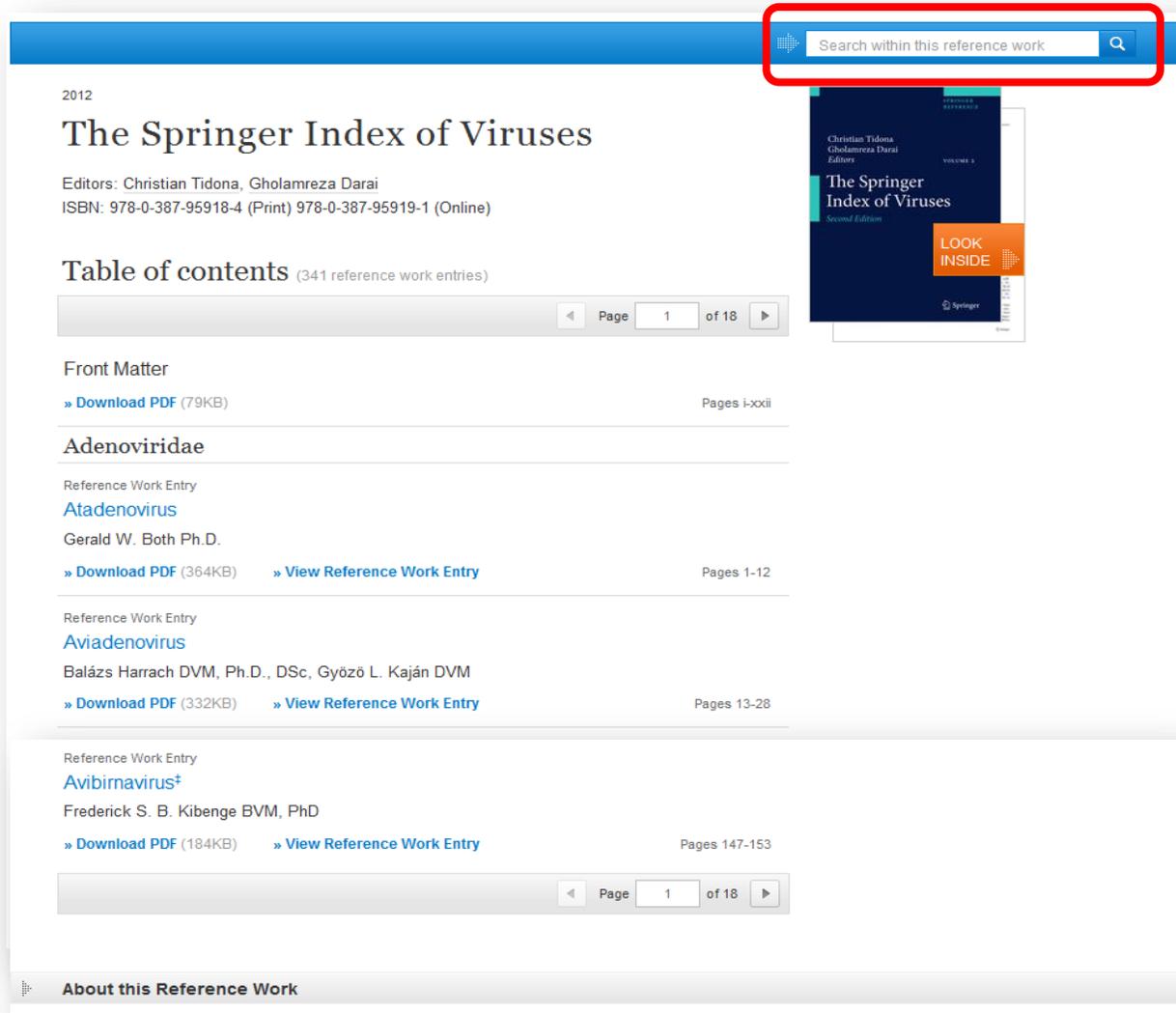
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The Springer Index of Viruses  
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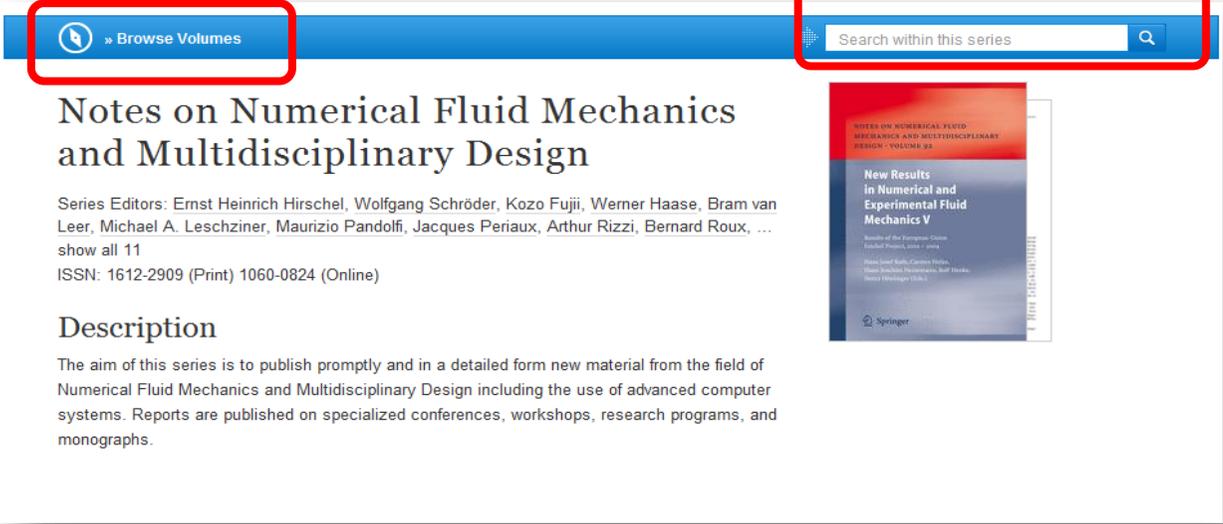
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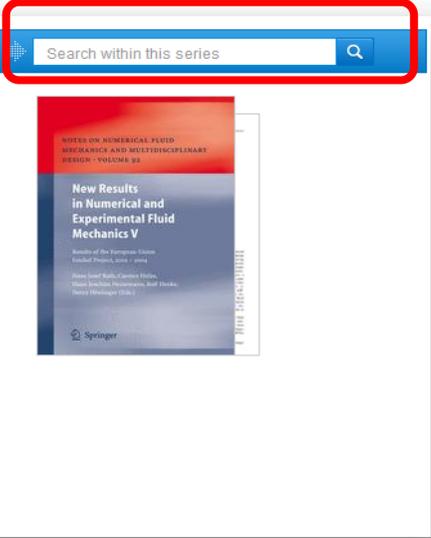
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