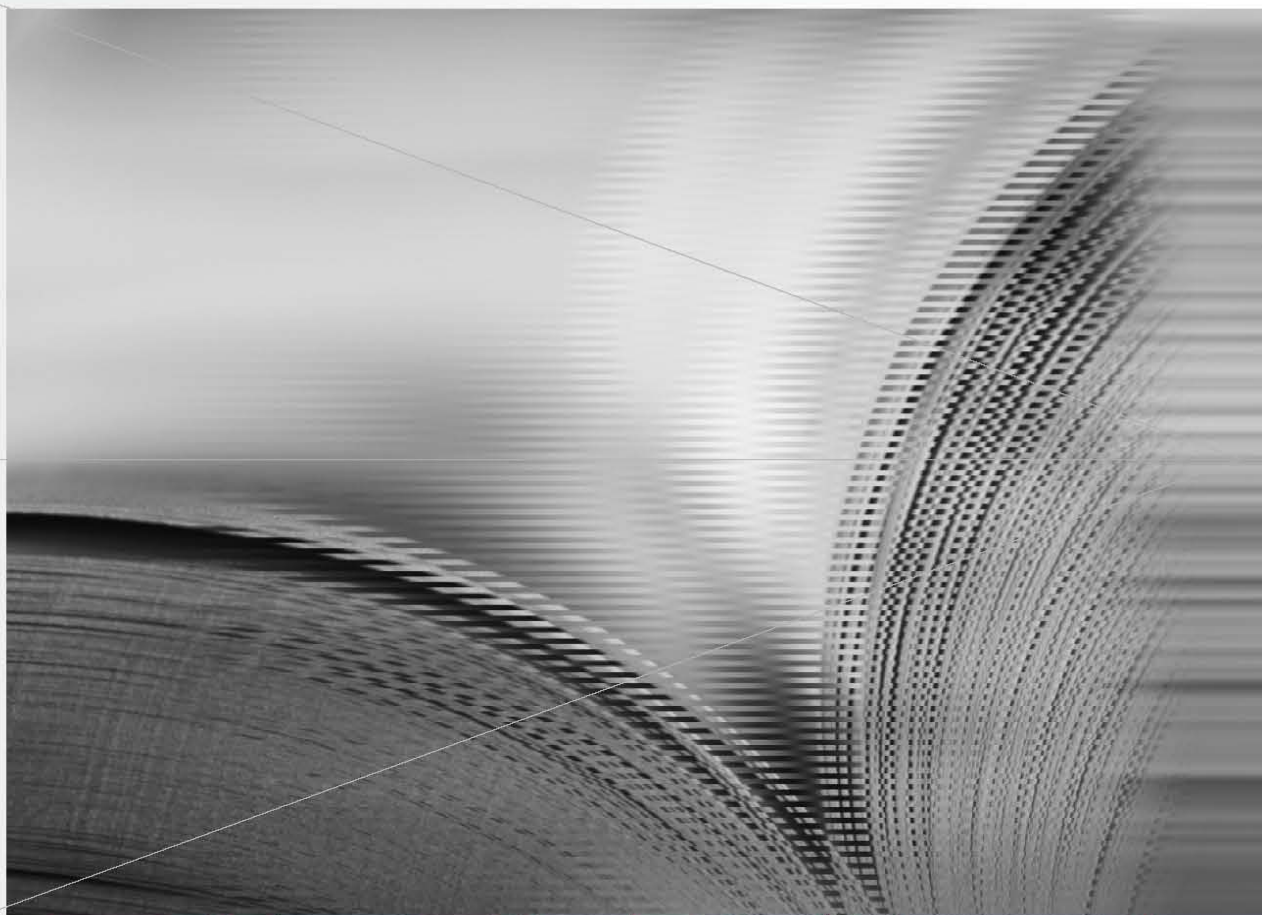


SpringerLink User Manual



springerlink.com

•• ENTER TO START >>

SpringerLink is one of the world's leading interactive databases for Scientific, Technical and Medical (STM) books and journals.

Springer has continuously advanced SpringerLink to meet the research needs of the scientific community. Our interactive database builds on the strengths that have made SpringerLink a world-class exploratory tool, with features and benefits that can significantly enhance the research process.

This User Manual provides a complete and easy-to-follow guide to SpringerLink users.

[SpringerLink]



Springer

SpringerLink

User Manual

Version 1.00

Issue Date: June 2004

SpringerLink

SpringerLink joins electronic and printed literature from Springer-Verlag, a preeminent scientific publisher with a reputation for excellence spanning more than 150 years. It also offers the work of a growing roster of publishers including Urban and Vogel, Steinkopff, and Birkhäuser.

Started in 1996, SpringerLink was one of the first online information services dedicated to scientific research. Today, it is one of the world's busiest, with millions of downloads every month.

We have continuously advanced SpringerLink to meet the research needs of the scientific community. Our interactive database builds on the strengths that have made SpringerLink a world-class exploratory tool, with features and benefits that can significantly enhance the research process.

This User Manual provides a complete and easy-to-follow guide to SpringerLink users. Users can navigate by the Table of Contents of a title or click on any item in the Table in order to explore this world-class database. *(Whenever users want to return to the Table of Contents, click the 'Back to Table of Contents' icon at the lowest right-hand corner of each page.)*

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1. Introduction


SpringerLink is one of the world's leading online information services for scientific, technical, and medical (STM) books and journals. SpringerLink is a preferred data source for researchers in academic and corporate institutions and other vital knowledge centers.

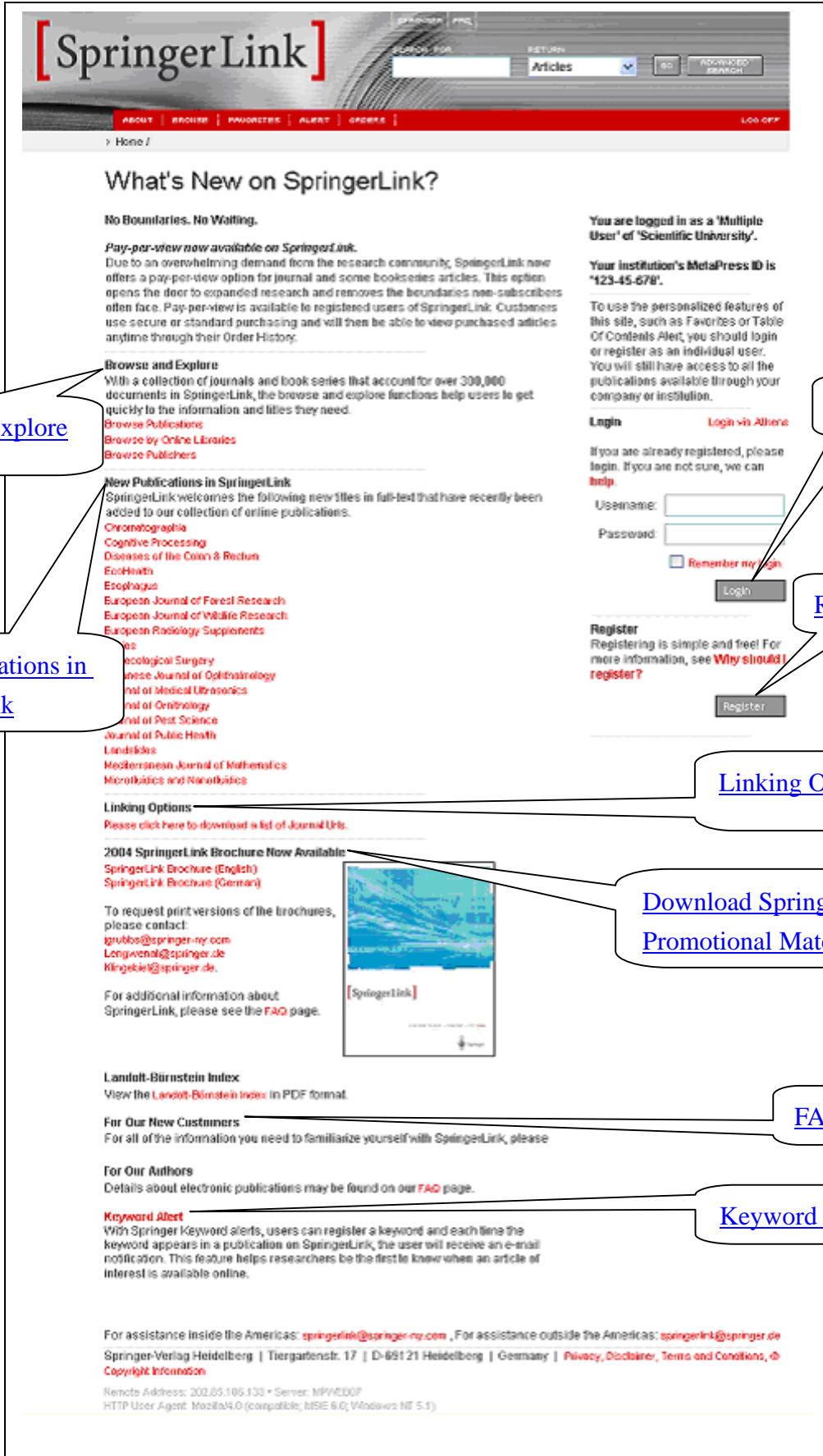
1.1. Getting Started

Before access SpringerLink, please make sure that your personal computer (PC) or notebook is connected to the internet. Please consult your Internet Service Provider (ISP) in case there is a connection problem.

Type <http://www.springerlink.com> under your web browser (such as Internet Explorer) or you can click on the hyperlink as stated above to access the home page of SpringerLink.

1.2. Home

SpringerLink has a user-friendly interface. The home page looks like this. Whenever you see a 'forefinger' icon  , you can click on it to get more detail / information.



[Browse and Explore](#)

[New Publications in SpringerLink](#)

[Login](#)

[Register](#)

[Linking Options](#)

[Download SpringerLink Promotional Materials](#)

[FAQ](#)

[Keyword Alert](#)

1.2.1. Authentication

SpringerLink provides access to its contents by IP authentication or Username & Password. If the IP of the workstation accessing SpringerLink is recognized, subscribers will be automatically logged in. Subscribers using Username & Password must log in before the assigned full texts can be viewed or downloaded.

Non-subscribers can log in as a guest to access tables of contents and in most cases, abstracts free of charge.

The screenshot shows the SpringerLink homepage. At the top, there is a search bar with 'SEARCH FOR' and 'RETURN' fields, and a dropdown menu set to 'Articles'. Below the search bar is a navigation menu with links: ABOUT, BROWSE, FAVORITES, ALERT, ORDERS, and LOG OFF. The main content area is titled 'What's New on SpringerLink?' and contains several sections: 'No Boundaries. No Waiting.', 'Pay-per-view now available on SpringerLink.', 'Browse and Explore', and 'New Publications in SpringerLink'. On the right side, there is a login form with the following text: 'You are logged in as a 'Multiple User' of 'Scientific University'. Your institution's MetaPress ID is '123-45-678'. To use the personalized features of this site, such as Favorites or Table Of Contents Alert, you should login or register as an individual user. You will still have access to all the publications available through your company or institution. Login via Athens. If you are already registered, please login. If you are not sure, we can help. Username: [input field], Password: [input field], [input type="checkbox"/> Remember my login. Login

Two callout boxes are present on the right side of the screenshot. The first callout box, titled 'Authentication by IP', points to the text 'You are logged in as a 'Multiple User' of 'Scientific University''. The second callout box, titled 'Log in by Username & Password', points to the login form fields and the 'Login' button.

1.2.2. Login / Register

To enjoy the personalized functions, users of SpringerLink are required to register as our 'individual user' within an institutional account or set-up an individual account. Personalized features on SpringerLink are free of charge. (Please refer to [Section 4. Personalized Features](#) for more details.)

Username & Passwords for individual users within institutional accounts are entered by allowing the users to set their own passwords.

Register

Please Register

Are you already registered?

You are currently logged in as a 'Multiple User' of Springer Hong Kong Office.

You may register as an individual user in order to take advantage of the personalized features of this site. You will still have access to all the publications available through your company or institution.

If you are already registered, please login.

If you are not sure or have forgotten your username or password, we can [help](#).

Individual Registration

To take advantage of the personalized features of this site, select register.

For assistance inside the Americas: springerlink@springer-ny.com , For assistance outside the Americas: springerlink@springer.de
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Remote Address: 202.85.106.133 • Server: MPWEB09
HTTP User Agent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)

Register here as an individual user to enjoy the personalized features

Register as an individual user here.

Please Register

General

* First Name:

* Last Name:

* Email:

Affiliation:

Authentication

* Username:

* Password:

* Confirm Password:

* Required

If you are affiliated with a library, corporation, or institution please include the name in the box marked 'Affiliation'.

For assistance inside the Americas: springerlink@springer-ny.com , For assistance outside the Americas: springerlink@springer.de
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Remote Address: 202.85.106.133 • Server: MPWEB09
 HTTP User Agent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)

This is the confirmation screen after registration.

Individual Registration Complete

Your individual registration has been completed and your login information has been e-mailed to you.

You have been logged in as: **springern.smith**

Your MetaPress ID is: **123-45-678**

Note: Please save this information or the emails which have just been sent to you. Your MetaPress ID may be required in any correspondence with the publisher concerning online access at this or other sites.

By registering with SpringerLink you are subject to the Springer-Verlag [terms and conditions](#) for electronic journals and books.

By clicking Continue, you agree to adhere to the Springer- Verlag Terms and Conditions for electronic journals and books.

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[Copyright Information](#)

Remote Address: 202.85.106.133 • Server: MPWEB07
 HTTP User Agent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)

The screenshot shows the SpringerLink website interface. At the top, there is a search bar with the text "SEARCH FOR" and a dropdown menu set to "Publications". To the right of the search bar are buttons for "GO" and "ADVANCED SEARCH". Below the search bar is a navigation menu with links: ABOUT, BROWSE, FAVORITES, ALERT, ORDERS, PROFILE, ORDER HISTORY, and LOG OFF. The main content area is titled "What's New on SpringerLink?" and contains several sections:

- No Boundaries. No Waiting.**
 - Pay-per-view now available on SpringerLink.** Due to an overwhelming demand from the research community, SpringerLink now offers a pay-per-view option for journal and some bookseries articles. This option opens the door to expanded research and removes the boundaries non-subscribers often face. Pay-per-view is available to registered users of SpringerLink. Customers use secure or standard purchasing and will then be able to view purchased articles anytime through their Order History.
- Browse and Explore**
 - With a collection of journals and book series that account for over 300,000 documents in SpringerLink, the browse and explore functions help users to get quickly to the information and titles they need.
 - [Browse Publications](#)
 - [Browse by Online Libraries](#)
 - [Browse Publishers](#)
- New Publications in SpringerLink**
 - SpringerLink welcomes the following new titles in full-text that have recently been added to our collection of online publications.
 - [Chromatographia](#)
 - [Cognitive Processing](#)
 - [Diseases of the Colon & Rectum](#)
 - [EcoHealth](#)

On the right side of the page, there is a user login status: "You are logged in as 'J Smith', a member of 'Scientific University'." Below this, it says "Your individual MetaPress ID is '123-45-678'." There is also a "Favorites" section with an "Edit" link and a list of items: "Abdominal Imaging", "Accreditation and Quality Assurance", and "Acta Mathematicae Applicatae Sinica (English Series)".

1.2.3. Browse and Explore

Use **Browse and Explore** to browse the books or journals in a variety of ways.

Browse and Explore

With a collection of journals and book series that account for over 300,000 documents in SpringerLink, the browse and explore functions help users to get quickly to the information and titles they need.

[Browse Publications](#)

[Browse by Online Libraries](#)

[Browse Publishers](#)

(1) **Browse Publications**

- Titles are listed alphabetically. (Please refer to [Section 2.2.1. Browse Publications](#) for more details.)

(2) Browse by Online Libraries

- Titles are divided into 11 subjects or Online Libraries. (Please refer to [Section 2.2.2. Browse by Online Libraries](#) for more details.)

(3) Browse Publishers

- Titles are listed by the name of their publisher. (Please refer to [Section 2.2.3. Browse Publishers](#) for more details.)

1.2.4. New Publications in SpringerLink

SpringerLink updates users constantly on the new titles published online under the heading **New Publications in SpringerLink** on the home page.

New Publications in SpringerLink
SpringerLink welcomes the following new titles in full-text that have recently been added to our collection of online publications.

- Chromatographia
- Cognitive Processing
- Diseases of the Colon & Rectum
- EcoHealth
- Esophagus
- European Journal of Forest Research
- European Journal of Wildlife Research
- European Radiology Supplements
- Facies
- Gynecological Surgery
- Japanese Journal of Ophthalmology
- Journal of Medical Ultrasonics
- Journal of Ornithology
- Journal of Pest Science
- Journal of Public Health
- Landslides
- Mediterranean Journal of Mathematics
- Microfluidics and Nanofluidics

Click on the title to link to the home page of new titles

1.2.5. Linking Options

On the home page, users can click on Linking Options to download and save the URLs of all the journals published online in SpringerLink by exporting the data into either a text file or an Excel file as desired.

Linking Options

Please click here to download a list of Journal Urls.

Download the list of journal summary URLs

The screenshot shows the SpringerLink website interface. At the top, there is a search bar with 'Articles' entered and a 'GO' button. Below the search bar is a navigation menu with links for 'ABOUT', 'BROWSE', 'FAVORITES', 'ALERT', 'ORDERS', and 'LOG OFF'. The main content area is titled 'Linking Exports' and contains a form with the following sections:

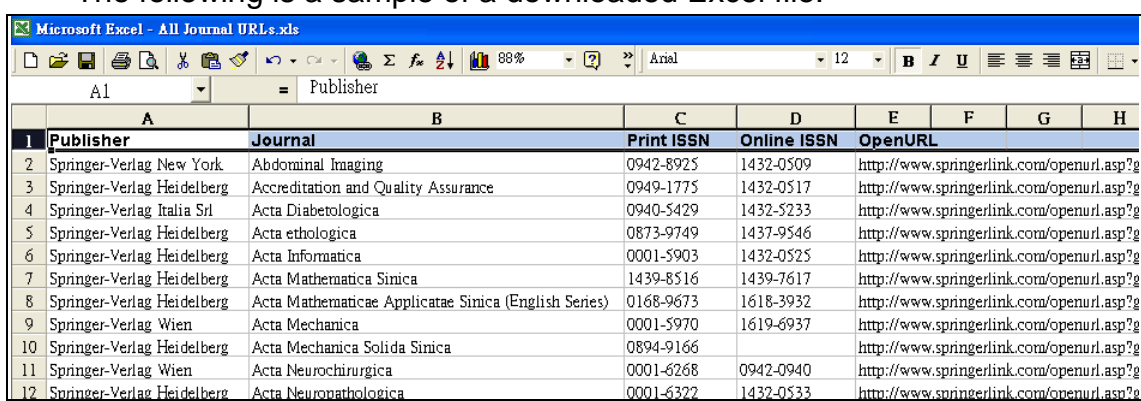
- Journal URLs**: A heading with a callout box pointing to it that says 'You can have either a text file or an Excel spreadsheet'.
- Content**: A radio button selected for 'All Journals'.
- File Format**: Two radio buttons, 'Excel Spreadsheet' is selected.
- URL Type**: Two radio buttons, 'OpenURL' is selected.
- Include Fields**: Four checkboxes, all of which are checked: 'Publisher Name', 'Journal Name', 'Print ISSN', and 'Online ISSN'.
- An 'OK' button is located at the bottom right of the form.

The following is a sample of a downloaded text file.



Publisher	Journal	Print ISSN	Online ISSN	OpenURL
Springer-Verlag New York	Abdominal Imaging	0942-8925	1432-0509	http://www.springerlink.com/openurl.a
Springer-Verlag Heidelberg	Accreditation and Quality Assurance	0949-1775	1432-0517	http://www.springerli
Springer-Verlag Italia Srl	Acta Diabetologica	0940-5429	1432-5233	http://www.springerlink.com/openurl.a
Springer-Verlag Heidelberg	Acta ethologica	0873-9749	1437-9546	http://www.springerlink.com/openurl.asp?genre
Springer-Verlag Heidelberg	Acta Informatica	0001-5903	1432-0525	http://www.springerlink.com/openurl.a
Springer-Verlag Heidelberg	Acta Mathematica Sinica	1439-8516	1439-7617	http://www.springerlink.com/openurl.a
Springer-Verlag Heidelberg	Acta Mathematicae Applicatae Sinica (English Series)	0168-9673	1618-3932	http:
Springer-Verlag Wien	Acta Mechanica	0001-5970	1619-6937	http://www.springerlink.com/openurl.asp?genre=journal
Springer-Verlag Heidelberg	Acta Mechanica Solida Sinica	0894-9166		http://www.springerlink.com/o
Springer-Verlag Wien	Acta Neurochirurgica	0001-6268	0942-0940	http://www.springerlink.com/openurl.asp?genre
Springer-Verlag Heidelberg	Acta Neuropathologica	0001-6322	1432-0533	http://www.springerlink.com/openurl.a
Springer-Verlag Heidelberg	Advances in Biochemical Engineering/Biotechnology		0724-6145	http:
Springer-Verlag Heidelberg	Advances in Polymer Science	0065-3195	1436-5820	http://www.springerlink.com/o

The following is a sample of a downloaded Excel file.



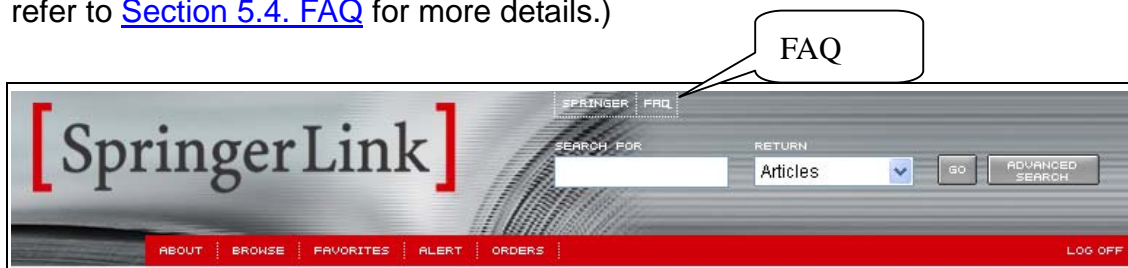
	A	B	C	D	E	F	G	H
1	Publisher	Journal	Print ISSN	Online ISSN	OpenURL			
2	Springer-Verlag New York	Abdominal Imaging	0942-8925	1432-0509	http://www.springerlink.com/openurl.asp?g			
3	Springer-Verlag Heidelberg	Accreditation and Quality Assurance	0949-1775	1432-0517	http://www.springerlink.com/openurl.asp?g			
4	Springer-Verlag Italia Srl	Acta Diabetologica	0940-5429	1432-5233	http://www.springerlink.com/openurl.asp?g			
5	Springer-Verlag Heidelberg	Acta ethologica	0873-9749	1437-9546	http://www.springerlink.com/openurl.asp?g			
6	Springer-Verlag Heidelberg	Acta Informatica	0001-5903	1432-0525	http://www.springerlink.com/openurl.asp?g			
7	Springer-Verlag Heidelberg	Acta Mathematica Sinica	1439-8516	1439-7617	http://www.springerlink.com/openurl.asp?g			
8	Springer-Verlag Heidelberg	Acta Mathematicae Applicatae Sinica (English Series)	0168-9673	1618-3932	http://www.springerlink.com/openurl.asp?g			
9	Springer-Verlag Wien	Acta Mechanica	0001-5970	1619-6937	http://www.springerlink.com/openurl.asp?g			
10	Springer-Verlag Heidelberg	Acta Mechanica Solida Sinica	0894-9166		http://www.springerlink.com/openurl.asp?g			
11	Springer-Verlag Wien	Acta Neurochirurgica	0001-6268	0942-0940	http://www.springerlink.com/openurl.asp?g			
12	Springer-Verlag Heidelberg	Acta Neuropathologica	0001-6322	1432-0533	http://www.springerlink.com/openurl.asp?g			

1.2.6. SpringerLink Promotional Materials

SpringerLink provides promotional materials online for users to download directly from the home page. New materials will be announced. Institutional users are welcome to download materials for promotional and training purposes.

1.2.7. Frequently Asked Questions (FAQ)

For information you may need to familiarize yourself with SpringerLink, please follow this link to the [FAQ](#) or Frequently Asked Questions page. (Please refer to [Section 5.4. FAQ](#) for more details.)



1.2.8. Keyword Alert

With SpringerLink's personalized function, [Keyword Alert](#), users can register keywords. Each time a new article containing the desired keyword is published, the user will receive a notification. This feature lets researchers be the first to know when an article of interest is available online. (Please refer to [Section 4.2. Alert](#) for more details.)



1.2.9. Menu Bar

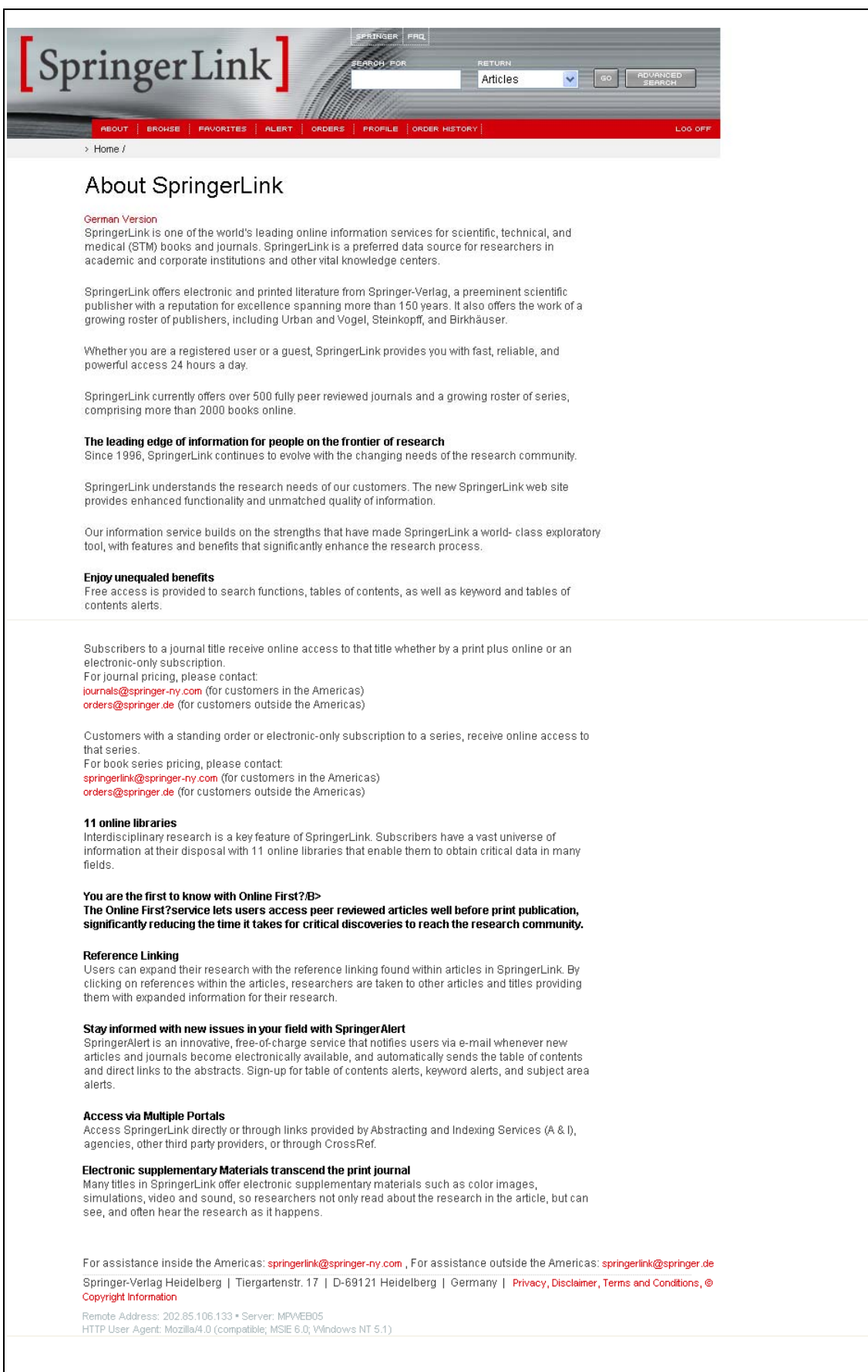
The red menu bar located at the top of each page provides the following specific functions.



- [ABOUT](#)
Introduction to SpringerLink. (Please refer to [Section 1.3. About](#) for more details.)
- [BROWSE](#)
Allows users to browse the books or journals in SpringerLink. (Please refer to [Section 2. Browse Function](#) for more details.)
- [FAVORITES](#)
Users can set up their own personal libraries by having their favorite registered titles on the home page every time they log in. (Please refer to [Section 4.1. Favorites](#) for more details.)
- [ALERT](#)
Users can receive keyword alerts by email or when login once there is a matching article newly published in SpringerLink. (Please refer to [Section 4.2. Alert](#) for more details.)
- [ORDERS](#)
SpringerLink lists all the contact addresses, telephone numbers, web sites, and email addresses for users to send in their subscription orders. (Please refer to [Section 5.5. Orders](#) for more details.)

1.3. About

A short introduction about SpringerLink's contents and online features.



The screenshot shows the SpringerLink website interface. At the top, there is a search bar with the SpringerLink logo on the left. The search bar includes a 'SEARCH FOR' field, a 'RETURN' dropdown menu set to 'Articles', and 'GO' and 'ADVANCED SEARCH' buttons. Below the search bar is a navigation menu with links for 'ABOUT', 'BROWSE', 'FAVORITES', 'ALERT', 'ORDERS', 'PROFILE', 'ORDER HISTORY', and 'LOG OFF'. The main content area is titled 'About SpringerLink' and contains several paragraphs of text, including a 'German Version' section, a description of the service, and various benefits and features. The text is organized into sections with bold headings and sub-headings.

About SpringerLink

German Version
SpringerLink is one of the world's leading online information services for scientific, technical, and medical (STM) books and journals. SpringerLink is a preferred data source for researchers in academic and corporate institutions and other vital knowledge centers.

SpringerLink offers electronic and printed literature from Springer-Verlag, a preeminent scientific publisher with a reputation for excellence spanning more than 150 years. It also offers the work of a growing roster of publishers, including Urban and Vogel, Steinkopff, and Birkhäuser.

Whether you are a registered user or a guest, SpringerLink provides you with fast, reliable, and powerful access 24 hours a day.

SpringerLink currently offers over 500 fully peer reviewed journals and a growing roster of series, comprising more than 2000 books online.

The leading edge of information for people on the frontier of research
Since 1998, SpringerLink continues to evolve with the changing needs of the research community.

SpringerLink understands the research needs of our customers. The new SpringerLink web site provides enhanced functionality and unmatched quality of information.

Our information service builds on the strengths that have made SpringerLink a world-class exploratory tool, with features and benefits that significantly enhance the research process.

Enjoy unequalled benefits
Free access is provided to search functions, tables of contents, as well as keyword and tables of contents alerts.

Subscribers to a journal title receive online access to that title whether by a print plus online or an electronic-only subscription.
For journal pricing, please contact:
journals@springer-ny.com (for customers in the Americas)
orders@springer.de (for customers outside the Americas)

Customers with a standing order or electronic-only subscription to a series, receive online access to that series.
For book series pricing, please contact:
springerlink@springer-ny.com (for customers in the Americas)
orders@springer.de (for customers outside the Americas)

11 online libraries
Interdisciplinary research is a key feature of SpringerLink. Subscribers have a vast universe of information at their disposal with 11 online libraries that enable them to obtain critical data in many fields.

You are the first to know with Online First!
The Online First service lets users access peer reviewed articles well before print publication, significantly reducing the time it takes for critical discoveries to reach the research community.

Reference Linking
Users can expand their research with the reference linking found within articles in SpringerLink. By clicking on references within the articles, researchers are taken to other articles and titles providing them with expanded information for their research.

Stay informed with new issues in your field with SpringerAlert
SpringerAlert is an innovative, free-of-charge service that notifies users via e-mail whenever new articles and journals become electronically available, and automatically sends the table of contents and direct links to the abstracts. Sign-up for table of contents alerts, keyword alerts, and subject area alerts.

Access via Multiple Portals
Access SpringerLink directly or through links provided by Abstracting and Indexing Services (A & I), agencies, other third party providers, or through CrossRef.

Electronic supplementary Materials transcend the print journal
Many titles in SpringerLink offer electronic supplementary materials such as color images, simulations, video and sound, so researchers not only read about the research in the article, but can see, and often hear the research as it happens.

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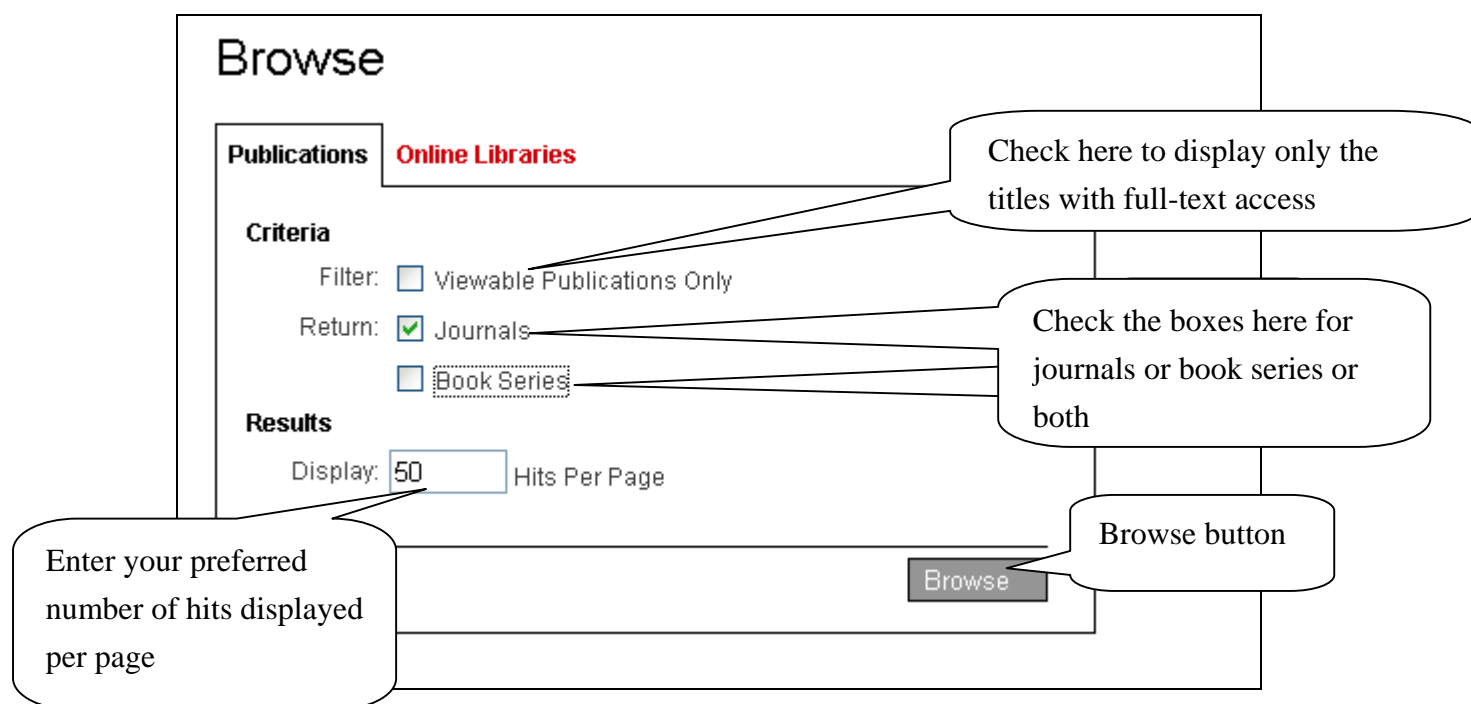
Remote Address: 202.85.106.133 * Server: MPWEB05
HTTP User Agent: Mozilla/4.0 (compatible; MSE 6.0; Windows NT 5.1)

2. Browse Function

Click on the Browse button on the red menu bar to browse the contents in SpringerLink very easily and quickly.



2.1. Browse by Publication Type



To best display the hit list, please do not select too large a number in the display results. The default is 50 items per page. The following sample screen shows 50 hits per page.

The screenshot displays the SpringerLink search results page. At the top, there is a search bar with the text "SEARCH FOR" and a dropdown menu set to "Articles". To the right of the search bar are buttons for "GO" and "ADVANCED SEARCH". Below the search bar is a navigation menu with links for "ABOUT", "BROWSE", "FAVORITES", "ALERT", "ORDERS", and "LOG OFF". The main content area is titled "Browse Results" and shows a list of 50 items. The first eight items are visible in the top section, and items 45 through 50 are visible in the bottom section. Each item includes a magnifying glass icon, a number, a title, and a publisher name. On the right side of the list, there are navigation links for "1 to 50 of 496", "First page", "Previous page", "Next page", and "Last page". Below these links is a "Jump To:" section with a grid of letters from A to Z. At the bottom of the page, there is a footer with contact information for assistance in the Americas and outside the Americas, and a link to "Copyright Information".

Browse Results

1 to 50 of 496
[First page](#)
[Previous page](#)
[Next page](#)
[Last page](#)

Jump To:
 A B C D E F G H I J K L M
 N O P Q R S T U V W X Y Z

1. **Abdominal Imaging**
 Publisher: Springer-Verlag New York

2. **Accreditation and Quality Assurance**
 Publisher: Springer-Verlag Heidelberg

3. **Acta Diabetologica**
 Publisher: Springer-Verlag Italia Srl

4. **Acta ethologica**
 Publisher: Springer-Verlag Heidelberg

5. **Acta Informatica**
 Publisher: Springer-Verlag Heidelberg

6. **Acta Mathematica Sinica**
 Publisher: Springer-Verlag Heidelberg

7. **Acta Mathematicae Applicatae Sinica (English Series)**
 Publisher: Springer-Verlag Heidelberg

8. **Acta Mechanica**
 Publisher: Springer-Verlag Heidelberg

45. **Archives of Gynecology and Obstetrics**
 Publisher: Springer-Verlag Heidelberg

46. **Archives of Microbiology**
 Publisher: Springer-Verlag Heidelberg

47. **Archives of Orthopaedic and Trauma Surgery**
 Publisher: Springer-Verlag Heidelberg

48. **Archives of Toxicology**
 Publisher: Springer-Verlag Heidelberg

49. **Archives of Virology**
 Publisher: Springer-Verlag Wien

50. **Archives of Women's Mental Health**
 Publisher: Springer-Verlag Wien

(more...)

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2.1.1. Browsing Journals

To see all the journal titles, check the Journals box and then click the Browse button. A list of journals displayed in alphabetical order with the name of the publishers will be displayed.

The screenshot shows a 'Browse Results' page with a list of journal titles and their publishers. On the right side, there is a 'Navigation help' section with links for 'First page', 'Previous page', 'Next page', and 'Last page'. Below this is a 'Jump To:' section with an alphabetical list of letters from A to Z. At the bottom of the list, there is a '(more...)' link. Callouts point to these elements: 'Click the link to go to the contents of a selected title' points to the journal titles; 'Navigation help' points to the navigation links; and 'Click here to get more browse results' points to the '(more...)' link.

Browse Results

246. [Journal of Anesthesia](#)
 Publisher: Springer-Verlag Tokyo

247. [Journal of Artificial Organs](#)
 Publisher: Springer-Verlag Tokyo

248. [Journal of Biological Inorganic Chemistry](#)
 Publisher: Springer-Verlag Heidelberg

249. [Journal of Bone and Mineral Metabolism](#)
 Publisher: Springer-Verlag Tokyo

250. [Journal of Cancer Research and Clinical Oncology](#)
 Publisher: Springer-Verlag Heidelberg

246 to 250 of 495
[First page](#)
[Previous page](#)
[Next page](#)
[Last page](#)

Jump To:
 A B C D E F G H I J K L M
 N O P Q R S T U V W X Y Z

(more...)

Standard navigation help is displayed on the right-hand side of a Browse Results page:

- First & last records on this page, and total records found
- First page (Go to the first page of the list)
- Previous page (Go to previous page)
- Next page (Go to next page)
- Last page (Go to last page)
- Jump To: A B C ... X Y Z
 (Click on the alphabetical list to display the titles that start with that letter)
- A click on the 'more' button shown at the bottom of the page will take the user to more results from the browsed titles.

2.1.2. Browsing Books Series

To see all the book series titles, check the Book Series box and then click the 'Browse' button. A list of book series by alphabetical order will appear and include the publishers for each title.

Browse Results

1. Advances in Biochemical Engineering/Biotechnology	1 to 5 of 29
Publisher: Springer-Verlag Heidelberg	First page
2. Advances in Polymer Science	Previous page
Publisher: Springer-Verlag Heidelberg	Next page
3. Advances in Solid State Physics	Last page
Publisher: Springer-Verlag Heidelberg	-----
4. ESO Astrophysics Symposia	-----
Publisher: Springer-Verlag Heidelberg	
5. The Handbook of Environmental Chemistry	
Publisher: Springer-Verlag Heidelberg	

[\(more...\)](#)

Users can browse the book titles in a similar way as the journals.

2.1.3. Browsing All Publications

Check both the boxes Journals and Book Series to browse all the publications.















Browse

Publications **Online Libraries**

Criteria
Filter: Viewable Publications Only
Return: Journals
 Book Series

Results
Display: Hits Per Page

Browse Results

<ul style="list-style-type: none"> <li style="margin-bottom: 10px;">  1. Abdominal Imaging Publisher: Springer-Verlag New York <li style="margin-bottom: 10px;">  2. Accreditation and Quality Assurance Publisher: Springer-Verlag Heidelberg <li style="margin-bottom: 10px;">  3. Acta Diabetologica Publisher: Springer-Verlag Italia Srl <li style="margin-bottom: 10px;">  4. Acta ethologica Publisher: Springer-Verlag Heidelberg <li style="margin-bottom: 10px;">  5. Acta Informatica Publisher: Springer-Verlag Heidelberg <li style="margin-bottom: 10px;">  6. Acta Mathematica Sinica Publisher: Springer-Verlag Heidelberg <li style="margin-bottom: 10px;">  7. Acta Mathematicae Applicatae Sinica (English Series) Publisher: Springer-Verlag Heidelberg <li style="margin-bottom: 10px;">  8. Acta Mechanica Publisher: Springer-Verlag Wien <li style="margin-bottom: 10px;">  9. Acta Mechanica Solida Sinica Publisher: Springer-Verlag Heidelberg <li style="margin-bottom: 10px;">  10. Acta Neurochirurgica Publisher: Springer-Verlag Wien <li style="margin-bottom: 10px;">  11. Acta Neuropathologica Publisher: Springer-Verlag Heidelberg <li style="margin-bottom: 10px;">  12. Advances in Biochemical Engineering/Biotechnology Publisher: Springer-Verlag Heidelberg <li style="margin-bottom: 10px;">  13. Advances in Polymer Science Publisher: Springer-Verlag Heidelberg <li style="margin-bottom: 10px;">  14. Advances in Solid State Physics Publisher: Springer-Verlag Heidelberg 	<p>1 to 50 of 526</p> <p>First page Previous page Next page Last page</p> <hr style="border: 0; border-top: 1px dotted #ccc;"/> <p>Jump To: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</p> <hr style="border: 0; border-top: 1px dotted #ccc;"/>
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Note the total number of titles found at the top right-hand corner of the page. It is the total number of book series and journal titles found.

2.2. Browse and Explore

SpringerLink provides users with three options for browsing the contents.

- Browse Publications
- Browse by Online Libraries
- Browse Publishers

Browse and Explore on the home page of SpringerLink

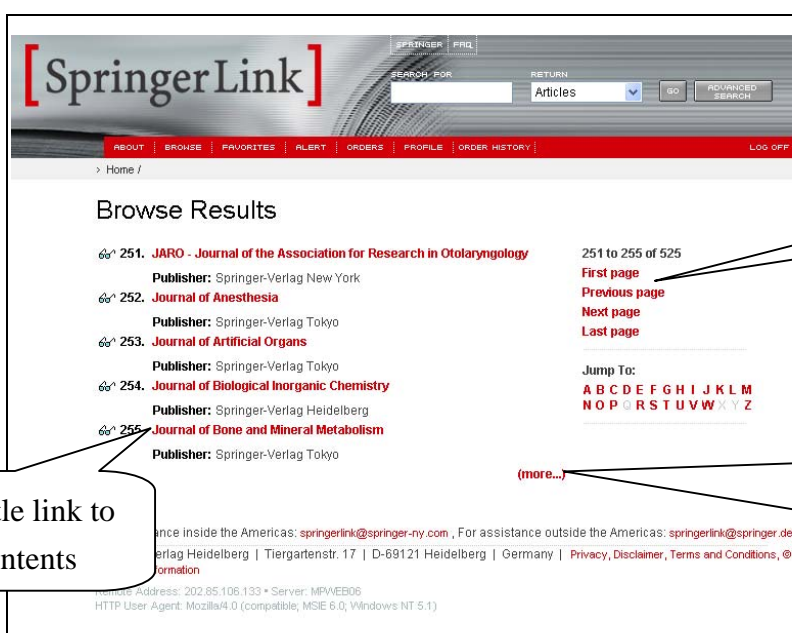
Browse and Explore

With a collection of journals and book series that account for over 300,000 documents in SpringerLink, the browse and explore functions help users to get quickly to the information and titles they need.

- [Browse Publications](#)
- [Browse by Online Libraries](#)
- [Browse Publishers](#)

2.2.1. Browse Publications

A click on the ‘Browse Publications’ option will display titles in alphabetical order. Users can click the corresponding link to get the desired book or journal contents. Details of browse operations are listed in [Section 2.4. Viewing Publication Contents](#).



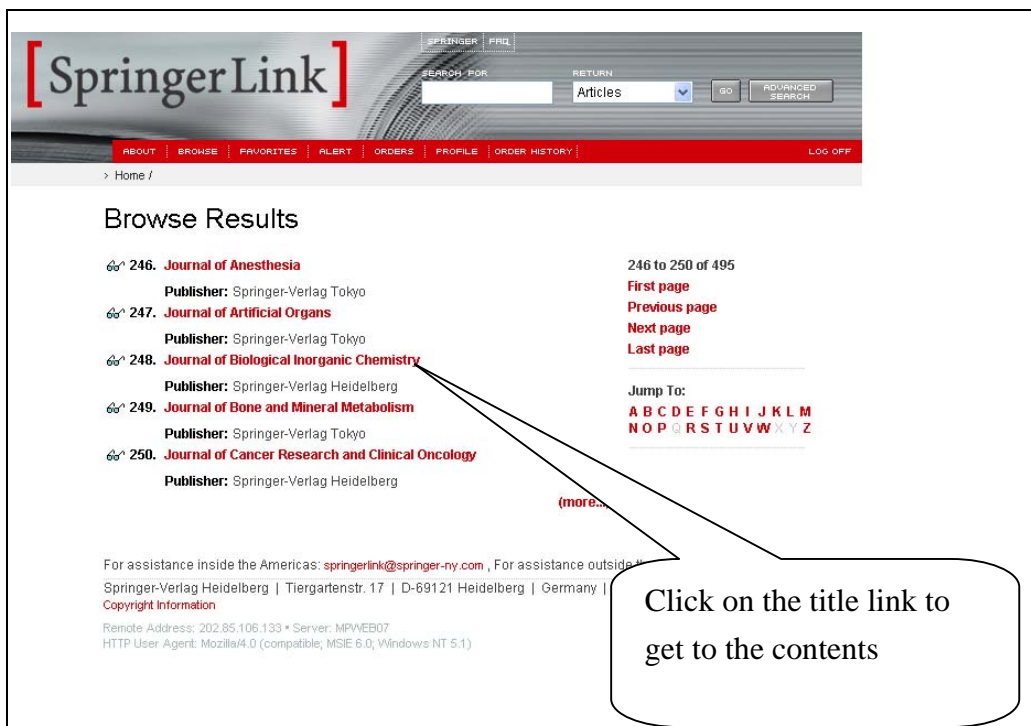
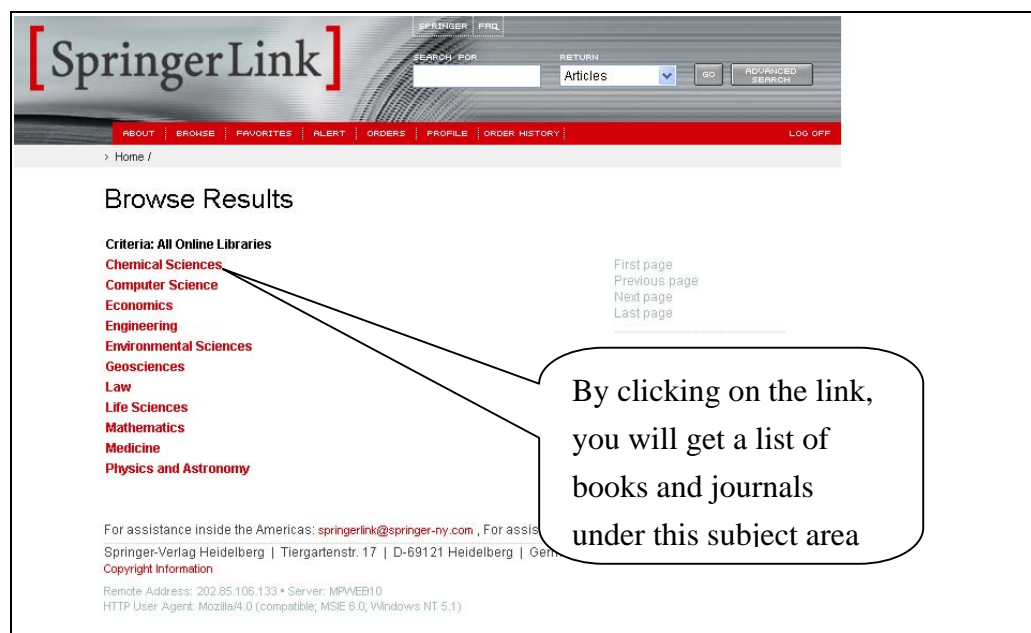
Navigation help

Click here to get more publication results from SpringerLink's database

Click the title link to go to the contents

2.2.2. Browse by Online Libraries

Click on 'Browse by Online Libraries' to see a listing of 11 Online Libraries. SpringerLink groups all the titles of books and journals into 11 subject areas. Each of them is called Online Library.



2.2.3. Browse Publishers

By clicking on 'Browse Publishers', SpringerLink displays a list of publishers on the screen. Users can select titles produced by a specific publisher to get a list of titles.

SpringerLink

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Publisher

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151 to 200 of 327

- 151. **International Journal of Information Security**
- 152. **International Journal of Legal Medicine**
- 153. **International Journal on Digital Libraries**
- 154. **International Journal on Document Analysis and Recognition**
- 155. **International Journal on Software Tools for Technology Transfer (STTT)**
- 156. **International Microbiology**
- 157. **International Orthopaedics**
- 158. **Der Internist**
- 159. **Inventiones Mathematicae**
- 160. **Invertebrate Neuroscience**
- 161. **Irrigation Science**
- 162. **JUICS Journal of Universal Computer Science**
- 163. **Journal of Biological Inorganic Chemistry**
- 164. **Journal of Cancer Research and Clinical Oncology**
- 165. **Journal of Comparative Physiology A: Sensory, Neural, and Behavioral**

Navigation help (points to 'Previous publisher', 'Next publisher', 'First page', 'Previous page', 'Next page', 'Last page')

Click the title link to get the contents (points to '163. Journal of Biological Inorganic Chemistry')






2.3. Online First

The Online First service lets users access peer-reviewed articles well before print publication, significantly reducing the time it takes for critical discoveries to reach the research community. Before any article is printed, they are published electronically in SpringerLink and grouped under the 'Online First' listing. When the article appears in the print version of the journal, they will be grouped under a printed volume/issue, and removed from the Online First listing. (Please refer to [Section 2.4. Viewing Publication Contentss](#) for more details)

2.4. Viewing Publication Contents


Users can click the publication name on the Browse Results screen. SpringerLink will display the details of the publication.

Browse Results

-  251. **JARO - Journal of the Association for Research in Otolaryngology**
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-  252. **Journal of Anesthesia**
Publisher: Springer-Verlag Tokyo
-  253. **Journal of Artificial Organs**
Publisher: Springer-Verlag TOKYO
-  254. **Journal of Biological Inorganic Chemistry**
Publisher: Springer-Verlag Heidelberg
-  255. **Journal of Bone and Mineral Metabolism**
Publisher: Springer-Verlag Tokyo

'Glasses' icon indicates full text available for users

Publication



Journal of Biological Inorganic Chemistry
 Publisher: Springer-Verlag Heidelberg
 ISSN: 0949-8257 (Paper) 1432-1327 (Online)
 Subject: [Chemical Sciences](#) , [Life Sciences](#)

Publication 254 of 526
[Previous Publication](#)
[Next Publication](#)

Issues in **bold** contain article full text that you are entitled to view.

Online First	
Volume 9	
Number 2	(119 - 246)
Number 1	(1 - 118)
Volume 8	
Number 8	(803 - 907)
Number 7	(699 - 802)
Number 6	(595 - 697)
Number 5	(499 - 594)
Number 4	(373 - 497)
Number 3	(235 - 371)
Numbers 1-2	(1 - 234)
Volume 7	
Numbers 7-8	(679 - 919)
6	(565 - 678)
5	(357 - 564)
4-5	(225 - 355)
3	(1 - 224)
2	
1-2	

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Quick Search
 Search within this publication...

For:

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 Click the button below to enable Table Of Contents Alert for this publication.

Click here to view other publications in this Online Library

Search within this publication

Articles grouped under Online First listing before print issue is published

Click here to view the contents of this volume/ issue

When viewing a publication, there is a standard navigation displayed on the right-hand side of the summary screen.



- Current publication number and total publications number found (eg. 248 of 491)
- Previous Publication (Go to previous publication)
- Next Publication (Go to next publication)

- Linking Options (Show the link of the URL shortcut to a publication / an issue / an article)

(a) Journal Link

Click this link to get the Linking Options of this publication

The screenshot shows the SpringerLink interface for the 'Journal of Biological Inorganic Chemistry'. The page includes a search bar at the top, a navigation menu, and a main content area with a journal cover image. On the right side, there is a 'Linking Options' link highlighted by a callout box. Below the journal information, there are sections for 'Volume 9' through 'Number 5' and a 'Quick Search' box.

Linking

Journal Link

Journal Link

To link directly to *Journal of Biological Inorganic Chemistry*, you may use:

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Current Sample Issue Link

To link directly to the current sample issue of *Journal of Biological Inorganic Chemistry*, you may use:

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To link with the Electronic ISSN, use:

<http://www.springerlink.com/openurl.asp?genre=issue&eissn=1432-1327&issue=currentsample>

(b) Issue Link

The screenshot shows the SpringerLink interface. At the top, there is a search bar and navigation links. The main content area is titled 'Issue' and features the cover of the *Journal of Biological Inorganic Chemistry*. Below the cover, the journal's name, publisher (Springer-Verlag Heidelberg), ISSN (0949-8257), and issue details (Volume 9, Number 2, March 2004) are listed. A 'Minireview' section highlights the article 'Discovery of superoxide reductase: an historical perspective' by Vincent Nivière and Marc Fontecave. A 'Linking Options' link is visible at the bottom right of the article list.

Click this link to get the Linking Options for this issue

Issue
Link

Linking

Issue Link

To link directly to Volume 9, Number 2 of *Journal of Biological Inorganic Chemistry*, you may use:

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This linking scheme is based on OpenURL. It allows you to encode citation information for a resource, in this case a issue, as a URL.

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To link with the Electronic ISSN, use:

<http://www.springerlink.com/openurl.asp?genre=issue&eissn=1432-1327&volume=9&issue=2>

(c) Article Link

SpringerLink

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Article

Journal of Biological Inorganic Chemistry
 Publisher: Springer-Verlag Heidelberg
 ISSN: 0949-8257 (Paper) 1432-1327 (Online)
 DOI: 10.1007/s00775-003-0519-7
 Issue: Volume 9, Number 2
 Date: March 2004
 Pages: 119 - 123

Minireview

Disc... ductase: an historical

...rière¹ and Marc Fontecave¹

(1) Laboratoire de Chimie et Biochimie des Centres Redox Biologiques, DRDC-CB, UMR CEA/CNRS/Université Joseph Fourier no 5047, CEA Grenoble, 17 Avenue des Martyrs, 38054 Cedex 9 Grenoble, France

Received: 22 July 2003 Accepted: 15 December 2003 Published online:

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To link with the Digital Object Identifier (DOI), use:

<http://www.springerlink.com/openurl.asp?genre=article&id=doi:10.1007/s00775-003-0519-7>

Note there are 3 different Links found in 3 different levels ie. in each Journal, each Issue and each Article.

- About This Journal (Description of this publication)

Description

The "Journal of Biological Inorganic Chemistry" covers advanced systems involving one or more metal ions set in a biological metalloproteins and metal-nucleic acid complexes - in order to understand biological function at the molecular level. Synthetic analogues mimicking function, structure and spectroscopy of naturally occurring biological molecules are also of interest to the journal. Manuscripts describing high-quality and original research concerned with metal ions or other "inorganic" species and having biological relevance are invited for submission to this journal. The journal publishes original articles, mini-reviews and commentaries on debated issues.

A Publication of the Society of Biological Inorganic Chemistry.

Impact factor
 Biochemistry & molecular biology, 2002 (Rank: 61 of 266); Impact factor: 3.911
 Chemistry, inorganic & nuclear, 2002 (Rank: 7 of 45); Impact factor: 3.911

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 Chemical Abstracts Service, Current Contents/ Life Sciences, Index Medicus, PubMed, Research Alert, SciSearch, Science Citation Index

A description of the aim and scope of the journal and its contents

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Societies



Society of Biological Inorganic Chemistry

SpringerLink displays the table of contents when a certain volume / issue is clicked.

Issue

Journal of Biological Inorganic Chemistry
 Publisher: Springer-Verlag Heidelberg
 ISSN: 0949-8257 (Paper) 1432-1327 (Online)
 Issue: Volume 9, Number 2
 Date: March 2004

Issue 2 of 52
[Previous Issue](#)
[Next Issue](#)

Articles 1 to 13 of 13
[First page](#)
[Previous page](#)
[Next page](#)
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Linking Options

Minireview
[Discovery of superoxide reductase: an historical perspective](#) pp. 119 - 123
 Vincent Nivière, Marc Fontecave
 DOI: 10.1007/s00775-003-0519-7

Original article
[Purification of protonatable residues in *Rhodothermus ruber* cytochrome *cd*₁ haem-copper oxygen reductase: comparison with *Cupressobacterium minimum* and *Cupressobacterium minimum* cytochrome *cd*₁ haem-copper oxygen reductase](#) pp. 124 - 134
 Vincent Nivière, António M. Baptista, Manuela M. Pereira, et al.
 DOI: 10.1007/s00775-003-0509-9

Click here to access the article

Navigation help

By clicking on the link, users can view the contents of articles listed in the table of contents.

Article

Journal of Biological Inorganic Chemistry
 Publisher: Springer-Verlag Heidelberg
 ISSN: 0949-8257 (Paper) 1432-1327 (Online)
 DOI: 10.1007/s00775-003-0466-3
 Issue: Volume 8, Number 7
 Date: September 2003
 Pages: 733 - 740

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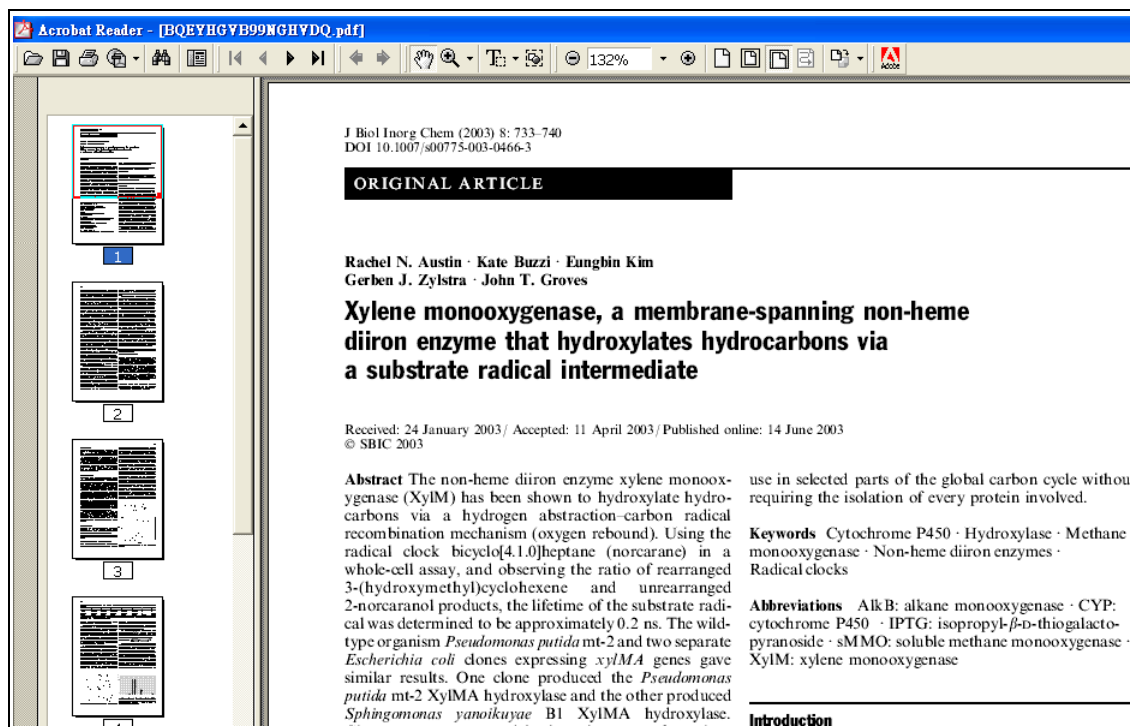
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JBIC Journal of Biological Inorganic Chemistry
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Minireview

Discovery of superoxide reductase: an historical perspective

Vincent Nivière¹  and Marc Fontecave¹

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Received: 26 July 2003 Accepted: 15 December 2003 Published online: 13 January 2004

Abstract For more than 30 years, the only enzymatic system known to catalyze the elimination of superoxide was superoxide dismutase, SOD. SOD has been found in almost all organisms living in the presence of oxygen, including some anaerobic bacteria, supporting the notion that superoxide is a key and general component of oxidative stress. Recently, a new concept in the field of the mechanisms of cellular defense against superoxide has emerged. It was discovered that elimination of superoxide in some anaerobic and microaerophilic bacteria could occur by reduction, a reaction catalyzed by a small metalloenzyme thus named superoxide reductase, SOR. Having played a major role in this discovery, we describe here how the concept of superoxide reduction emerged and how it was experimentally substantiated independently in our laboratory.

Keywords Oxidative stress - Superoxide - Superoxide dismutase - Superoxide reductase

Introduction

Xylene monooxygenase (XylM) is a membrane-spanning, non-heme diiron enzyme with a histidine-rich active site that catalyzes the insertion of an oxygen atom into a C–H bond [1]. XylM has 25% sequence homology with alkane monooxygenase (AlkB) [2], with significant homology in both an eight-histidine motif and in the presence of three long hydrophobic domains thought to be membrane-spanning regions [3]. A detailed comparison of the amino acid sequence of a family of hydroxylases suggests that XylM and AlkB, together with a number of membrane-spanning desaturases, form a third, distinct class of diiron enzymes, the so-called evolutionarily distinct classes being typified by hemerythrin (class I) and soluble methane monooxygenase (sMMO) (class II) [3]. A genetic survey of aerobic, hydrocarbon-degrading bacteria showed extensive homology to the eight-histidine motif of AlkB and XylM, further indicating a widespread role for this motif in the environment [4]. XylM has been used both in the native organism for the commercial scale production of heteroaromatic acids [5] and in an alkane-responsive expression system in *Escherichia coli* for the moderate scale conversion of styrene to (S)-styrene oxide [6].

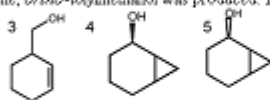
The insertion of oxygen into a C–H bond is a chemical reaction that has long fascinated chemists both because C–H bonds are difficult to disrupt and because oxygen is difficult to selectively activate. Hydrocarbons represent an energy-rich fuel for microorganisms. The reaction between molecular oxygen and hydrocarbons to yield an alcohol and water is a thermodynamically favorable reaction, generating products that can ultimately be fed into aerobic respiratory pathways. In spite of the thermodynamically favorable nature of hydrocarbon oxygenation, kinetic barriers and other challenges (e.g. the risk to the organism of producing reactive oxygen species) constrain this strategy. Thus, a limited number of organisms exist that can grow on hydrocarbons as their sole source of carbon and energy. Just how limited that number of organisms is not known. Approximately 100 different species of bacteria and 100 different species of fungi that can metabolize alkanes [7, 8] have been identified. Whether that number represents the majority of hydrocarbon transforming species or a minuscule culturable fraction is not clear. Even less is known about the diversity of metalloenzymes that can catalyze the mono-oxygenation of hydrocarbons. The growing influx of genomic data pressures chemists to ask, and find ways to address, questions regarding the diversity of hydroxylases by rapid and efficient procedures.

Until recently, the two paradigms for biological hydrocarbon oxidation have been cytochrome P450 (CYP), a heme-containing protein [9], and sMMO, a non-heme, diiron enzyme [10]. More than two decades of mechanistic studies on CYP and metalloporphyrin models have led to a consensus mechanism involving the binding and reduction of dioxygen to form first a peroxo-Fe(III) state and ultimately an oxo-iron(IV) porphyrin π -cation radical (compound I) as the active oxygen species (see, for example [11, 12, 13, 14]). This ferryl species was recently observed in Cyp 119 (a thermophile) [15]. While stopped-flow, freeze-quench experiments with P450_{cam} failed to detect a Cpd I intermediate [16], the substrate-derived alcohol has been found at low temperature to be formed with the hydroxyl oxygen bound to the heme iron [17]. Hydroxylation is believed to occur via homolytic bond cleavage of the C–H bond followed by OH rebound to the carbon-centered substrate radical [18, 19, 20]. Cationic processes [21] and electrophilic reactivity of the ferric peroxo species [21] have also been suggested.

[Reference](#)
[Linking](#)

Catalytic activity of XylM towards norcaradiene

XylM metabolized norcaradiene, yielding a distribution of ring-closed and ring-open products. Generally, 2 - 4% of the norcaradiene was metabolized to products over the course of the reaction, as determined by quantifying the moles of products, knowing the moles of substrate added, and taking into account the extraction efficiency of the alcohols from the reaction mixture. This conversion rate is consistent with rates seen in other whole-cell assays. Unreacted norcaradiene is difficult to quantify after the reaction because the volatility of norcaradiene causes it to be lost during workup. For both the wild-type organism and the mt-2 XylMA and B1 XylMA clones, approximately 87 - 94% of the norcaradiene-derived products are *endo*- and *exo*-2-norcaranol (compounds 4 and 5, respectively) and 2-norcaranone (compound 9). Approximately 3.9 - 4.5% of the norcaradiene-derived products are 3-(hydroxymethyl)cyclohexene (compound 3), the ring-open product arising from a radical precursor. In many experiments, small (1 - 2%) amounts of 3-cycloheptenol (compound 2), the hydroxylation product from the ring-opened cationic resonance form, were seen. Failure to detect it in all experiments may represent the fact that levels in some experiments may have been near the detection limits of the assay. Small amounts of products from oxidation at the mechanistically uninformative 3-position were seen with some organisms. A chromatogram from a typical reaction is shown in Fig. 1. Table 1 shows the average product distributions from all experiments for each organism and the standard error of the values obtained. The data represent the average of four or five different experiments with each strain. When the wild-type organisms were grown with *meta*-xylene, *ortho*-tolylmethanol was produced. Figure 2 shows the structures of the various compounds and Fig. 3 the product distribution.



Xylene Monooxygenase and Norcaradiene

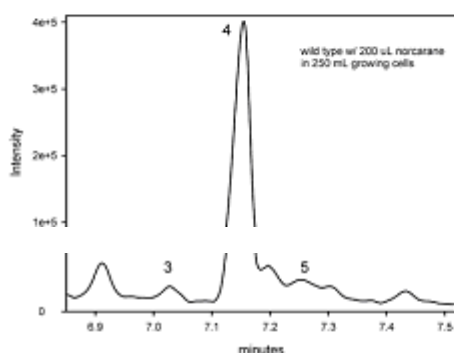


Fig. 1. Representative GC-MS trace for XylM oxidation of norcaradiene

Table 1. Distribution of products from XylM oxidation of norcaradiene (average±SE). Data given in terms of total norcaradiene-derived products

	2	3	4	5	9	7 ^a	8
wt mt-2	2.7 (0.05)	3.9 (0.45)	73.1 (0.15)	17.1 (2.65)	3.2 (2.75)	0	0
mt-2 clone	1.1 (0.65)	4.3 (1.25)	63.3 (5.8)	18.6 (3.35)	12.1 (3.3)	0	1.0 (0.6)
B1 clone	2.2 (0.8)	4.5 (0.5)	62 (5.8)	19 (4.4)	5.6 (1.8)	1.6 (1.6)	1.5 (0.5)

^aCompound 6 (*endo*-3-norcaranol) co-elutes with 5 and cannot be precisely resolved, although the fragmentation pattern is clearly dominated by 5; 7 (*exo*-3-norcaranol) can be resolved

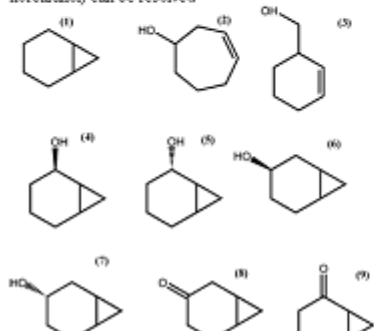


Fig. 2. Structures of norcaradiene and norcaradiene oxidation products

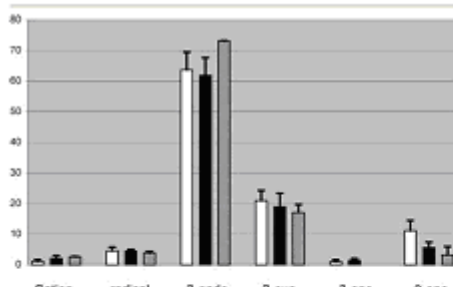


Fig. 3. Distribution of products from all three organisms. First block in each set is mt-2 clone (white), second block is B1M clone (black), third block is wild type (diagonal black and white stripes). Error bars represent standard errors

Control experiments confirmed that the chemistry detected was due to the catalytic activity of xylene mono-oxygenase and not due to spurious abiotic or biotic oxidations. No products were seen when norcaradiene was incubated for 12 - 15 h in buffer. No products were seen when norcaradiene was incubated with a negative control of *E. coli* containing only the expression vector with no mono-oxygenase gene. Abiotic experiments were also done to test the stability of products to the experimental workup conditions and all products were found to remain unmodified by incubation in buffer followed by extraction and GC-MS analysis.

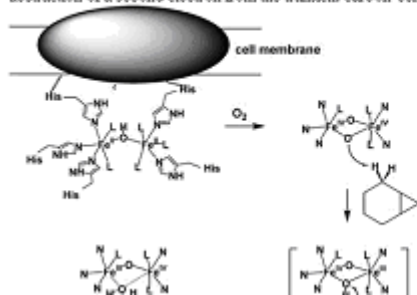
To ensure that product quantification was not compromised by further metabolism of the initial products, we synthesized 2-norcaranone (the corresponding ketone for 2-norcaradiene), 3-norcaranone (the corresponding ketone for 3-norcaradiene), 3-cycloheptanone (the corresponding ketone for 3-cycloheptadiene), and 2-cyclohexene-1-carbaldehyde (the corresponding aldehyde for 3-(hydroxymethyl)cyclohexene) and looked for those molecules as well in the GC-MS chromatograms. When detected, they were included in calculation of the ratio of ring-closed to ring-open products used to determine the radical lifetime of the substrate. In addition, potential products were incubated with the cells as substrates. Alcohols were seen to be transformed gradually and partially to the expected ketones over the course of a 15-h incubation. The use of two *E. coli* hosts expressing xylene mono-oxygenase (whose results are the same as the wild-type organism) allow us unambiguously to assign the chemistry being observed to XylM.

The rearrangement rate for norcaradiene has been determined to be $2 \times 10^8 \text{ s}^{-1}$ [36]. For XylM, we calculate a radical lifetime of $0.2 \times 10^{-9} \text{ s}$ for each of the three organisms tested (the formula for calculating the radical lifetime from the metabolism of a radical clock is

$$\text{radical lifetime} = \left\{ \left(\frac{[\text{ring closed}]}{[\text{ring open}]} \right) (k_{\text{rearrangement}})^{-1} \right\}$$

Quantification was based on manual integrations of all product peaks and crosschecked with the intensity of key ions for each product. Standards samples of all products were synthesized. Chromatograms from whole-cell extract often contain multiple peaks, occasionally co-elution of peaks presents a problem. Comparison of both quantification approaches showed that differences in results in the two approaches were small. For all three organisms, the average radical lifetime of 0.2 ns had a standard error of 0.04 ns (organism specific standard errors are as follows: mt-2 clone 0.075 ns, B1M 0.1 ns, wt 0.085 ns). Since the primary question being posed in this work is whether XylM hydroxylates hydrocarbons via an oxygen rebound mechanism similar to that used by the presumably structurally similar enzyme AlkB, the resolution of the data is more than adequate to answer that question affirmatively.

A scheme for the reaction between XylM and norcaradiene is represented in Fig. 4. According to this model, the diiron site on XylM reacts to form a high-valent intermediate analogous to compound Q in sMMO. This species is then capable of abstracting a hydrogen atom from norcaradiene, forming a carbon-centered radical whose strain-relieving ring opening takes place in concert with the enzyme-mediated OH rebound step. Cationic products are proposed to arise from the abstraction of a second electron from the transient carbon-centered radical.



References

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[ChemPort](#)
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[ChemPort](#) [PubMed](#)

Reference linking options take users to supplementary materials (eg. diagrams), or lists of references.

3. Search Function

The powerful search engine in SpringerLink offers three levels of search functions to meet different readers' usage habits and requirements.

3.1. Searching within the Publication

SpringerLink provides the Quick Search function within a publication selected.

The screenshot displays the SpringerLink website interface. At the top, there is a navigation bar with the SpringerLink logo and a search bar. Below the navigation bar, the page title is "Publication". The main content area is divided into two columns. The left column features a cover image of the "Journal of Biological Inorganic Chemistry" (JBIC) and a list of issues. The right column contains a "Quick Search" section with a search input field containing the text "enzyme" and a "Search" button. A callout box with a pointer to the search input field contains the text: "Type the keyword(s) and press Search button".

SpringerLink displays the search results as follows.

The screenshot shows a search results page for the criteria 'enzyme'. It displays three search results, each with a title, publication information, and an excerpt. The number of hits is shown as '1 to 10 of 129'. Navigation links for 'Next page', 'Previous page', 'First page', and 'Last page' are visible. A 'Filter Selected Items' button is present. A 'Search Within Results' section allows for further searching within the results, with the keyword 'copper' entered in the search box.

Number of hits: 1 to 10 of 129

Filter option: Filter Selected Items

Further search within the results: Search Within Results, Search

Search Results:

Criteria: enzyme

1. **Effect of metal substitution in copper amine oxidase from lentil seedlings**
 Publication: Journal of Biological Inorganic Chemistry
 Authors: A. Padiglia, Rosaria Medda, Jens Z. Pedersen, et al.
 Publisher: Springer-Verlag Heidelberg
 Recency: Volume 4, Number 5
 Relevancy: 19.2%
 Excerpt: Abstract The reaction with substrates and carbonyl reagents of native lentil Cu-amine oxidase and its modified forms, i.e. Cu-fully-depleted, Cu-half-reconstituted, Cu-fully-reconstituted, Co-substituted, Ni-substituted and Zn-substituted, has been studied. Upon removal of only one of the two Cu ions, ...

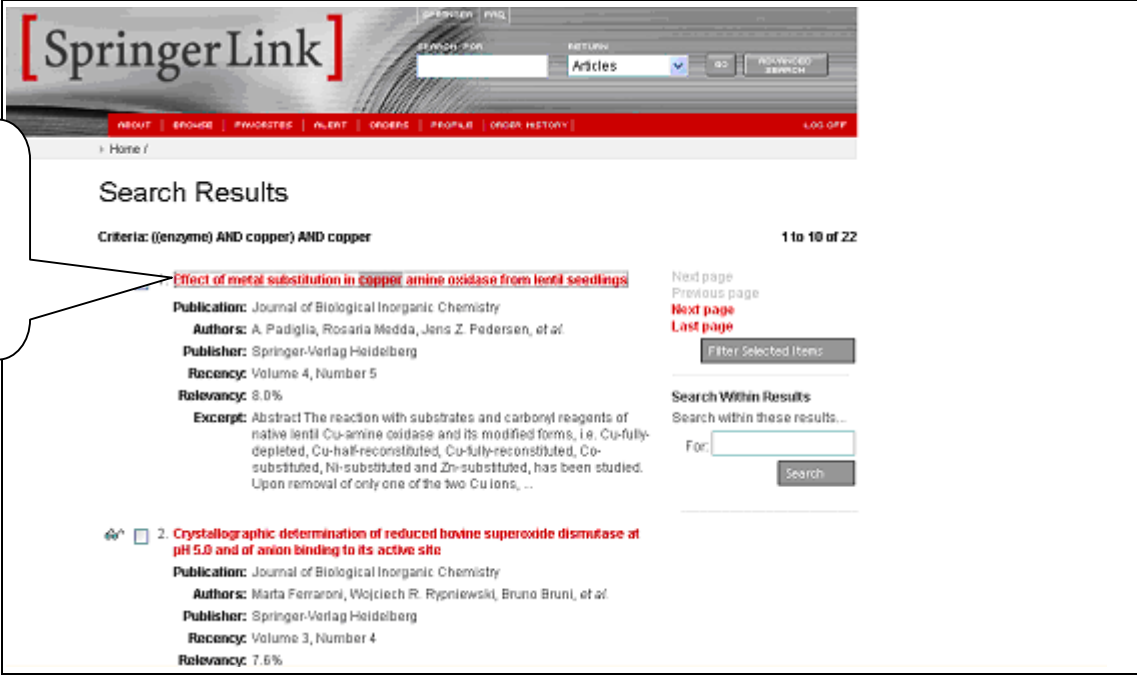
2. **Ca²⁺ and the bacterial peroxidases: the cytochrome c peroxidase from *Pseudomonas stutzeri***
 Publication: Journal of Biological Inorganic Chemistry
 Authors: Cristina G. Timóteo, Pedro Tavares, Celis F. Goodhew, et al.
 Publisher: Springer-Verlag Heidelberg
 Recency: Volume 8, Numbers 1-2
 Relevancy: 17.9%
 Excerpt: Abstract. The production of cytochrome c peroxidase (CCP) from *Pseudomonas (Pa.) stutzeri* (ATCC 11607) was optimized by adjusting the composition of the growth medium and aeration of the culture. The protein was isolated and characterized biochemically ...

3. **Selective replacement of the catalytic zinc of the human stromelysin-1 catalytic domain**
 Publication: Journal of Biological Inorganic Chemistry
 Authors: Jaeho Cha, M. V. Sørensen, Q.-Z. Ye, et al.

The number of hits is displayed at the top right-hand corner of the Results page and the search results are listed by title, plus an excerpt of the article is shown. Users can see the contents of an article by clicking on the article link.

Users can make further searches within the search results to refine the search. Simply type in the additional keyword(s) on the Search Within Results box on the Search Results screen to do another search within search results.

By checking the boxes of the selected articles and clicking on the Filter Selected Items button will allow users to refine their results.



The screenshot shows the SpringerLink search results page. At the top, there is a search bar with the text 'SEARCH FOR' and a dropdown menu set to 'Articles'. Below the search bar is a navigation menu with links for 'ABOUT', 'BROWSE', 'REGISTER', 'ALERT', 'ORDERS', 'PROFILE', 'ORDER HISTORY', and 'LOG OFF'. The main heading is 'Search Results' with the criteria '(enzyme) AND copper) AND copper' and '1 to 10 of 22' results. The first result is 'Effect of metal substitution in copper amine oxidase from lentil seedlings'. A callout box on the left points to this title with the text 'Click the link to get the contents'. The second result is 'Crystallographic determination of reduced bovine superoxide dismutase at pH 5.0 and of anion binding to its active site'. The page also includes navigation links like 'Next page', 'Previous page', 'Filter Selected Items', and a 'Search Within Results' section.

Click the link to get the contents

Effect of metal substitution in copper amine oxidase from lentil seedlings

Publication: Journal of Biological Inorganic Chemistry
Author: A. Padiglia, Rosaria Medda, Jens Z. Pedersen, et al.
Publisher: Springer-Verlag Heidelberg
Frequency: Volume 4, Number 5
Relevancy: 8.0%

Excerpt: Abstract The reaction with substrates and carbonyl reagents of native lentil Cu-amine oxidase and its modified forms, i.e. Cu-fully-depleted, Cu-half-reconstituted, Cu-fully-reconstituted, Co-substituted, Ni-substituted and Zn-substituted, has been studied. Upon removal of only one of the two Cu ions, ...

2. Crystallographic determination of reduced bovine superoxide dismutase at pH 5.0 and of anion binding to its active site

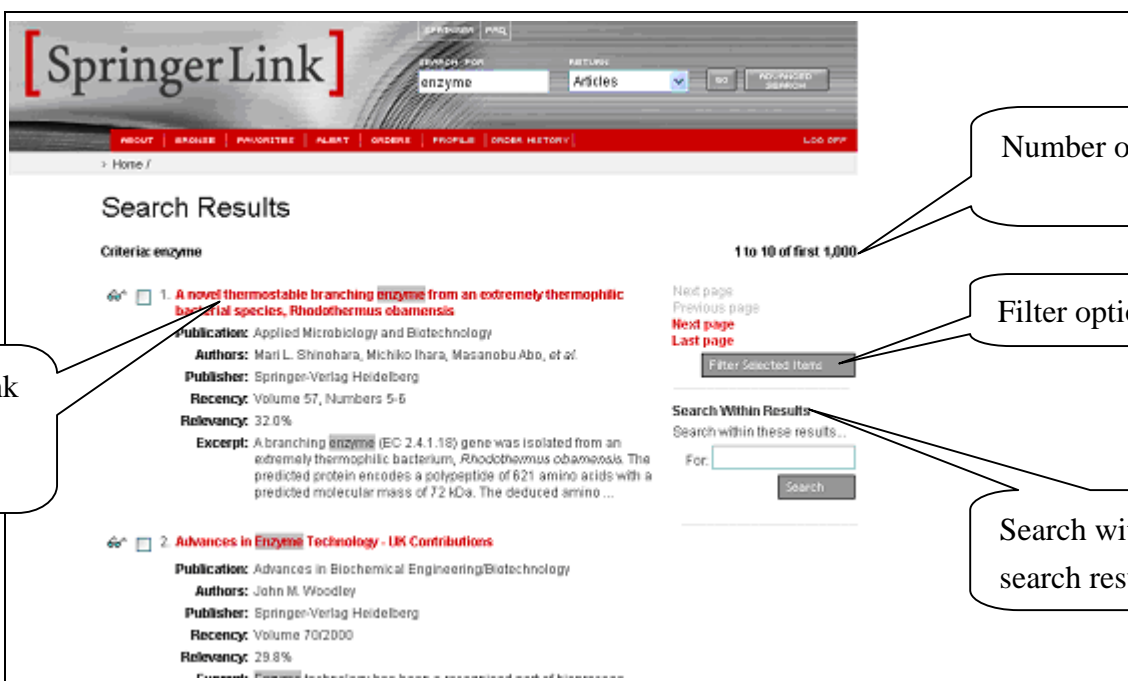
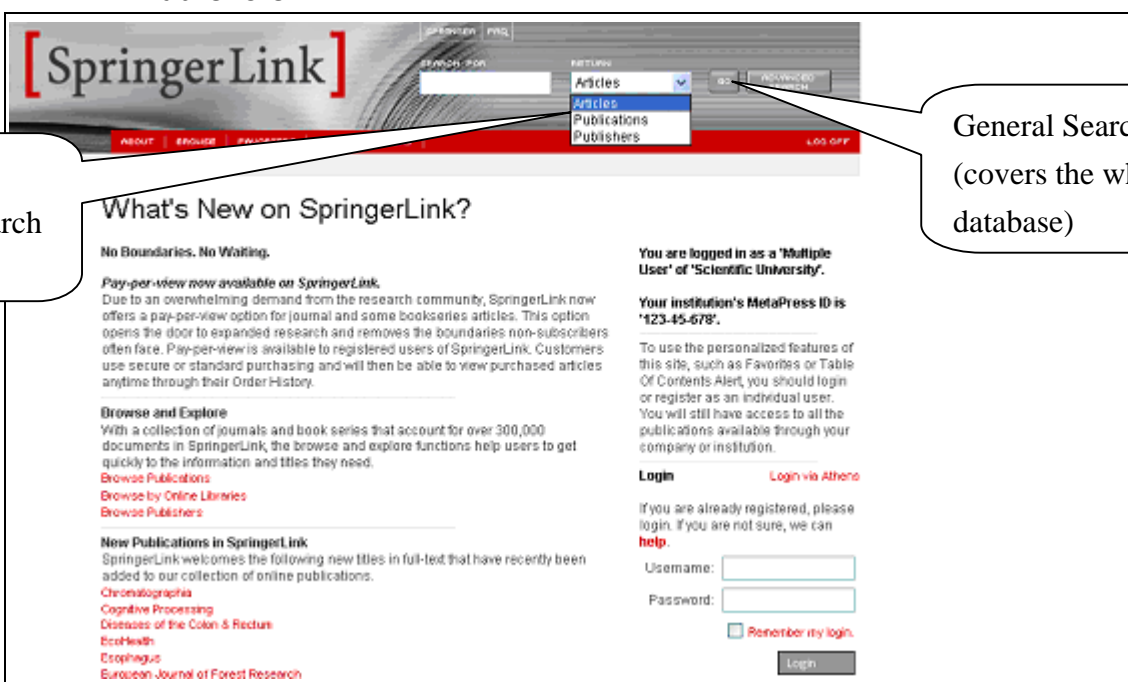
Publication: Journal of Biological Inorganic Chemistry
Author: Marta Ferraroni, Wojciech R. Rypniewski, Bruno Bruni, et al.
Publisher: Springer-Verlag Heidelberg
Frequency: Volume 3, Number 4
Relevancy: 7.6%

To confirm the validity of the search, the keyword is highlighted in the search results. Click on the article titles to view the abstract and full-text contents.

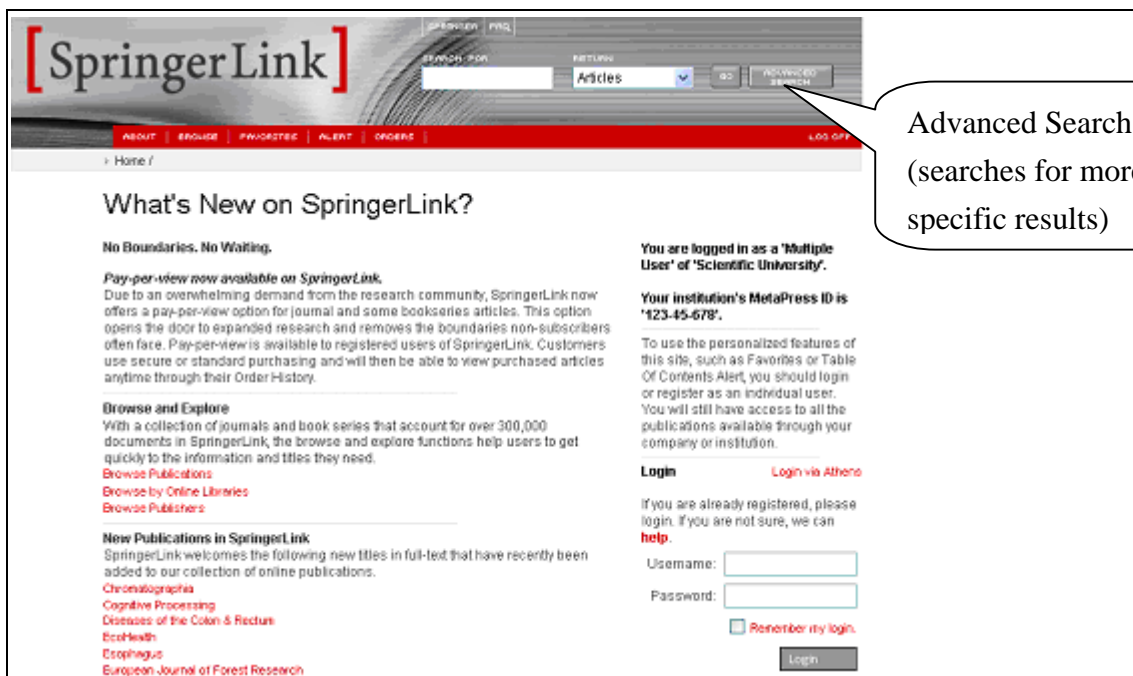
3.2. General Search

The search engine also offers General Search on each page. It searches for all publication contents in SpringerLink under the following options:

- Articles
- Publications
- Publishers



3.3. Advanced Search



The screenshot shows the SpringerLink website interface. At the top, there is a search bar with a dropdown menu set to 'Articles' and a 'GO' button. To the right of the search bar is an 'Advanced Search' button. A callout box points to this button with the text: 'Advanced Search (searches for more specific results)'. Below the search bar is a navigation menu with links for 'ABOUT', 'BROWSE', 'PURCHASE', 'ALERT', 'ORDERS', and 'LOG OFF'. The main content area is titled 'What's New on SpringerLink?' and contains several sections: 'No Boundaries. No Waiting.', 'Pay-per-view now available on SpringerLink.', 'Browse and Explore', and 'New Publications in SpringerLink'. On the right side, there is a login section with fields for 'Username' and 'Password', a 'Remember my login' checkbox, and a 'Login' button. The user is logged in as a 'Multiple User' of 'Scientific University'.

The Advanced Search is on every page. It provides users with more specific parameters for their searches.

Users can specify their search with the following options:

- Articles by citation
- Articles by text
- Publications

Click the Advanced Search button to go to the Advanced Search screen.

Articles by Citation

Open the Articles by Citation window by clicking on its thumb-index. Users can input the following search criteria:

- Name or ISSN of Publication
- Article Title
- Author
- Volume / Issue / Supplement / Year / Page

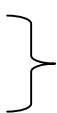


The screenshot displays the SpringerLink search interface. At the top, the SpringerLink logo is visible. Below it, there is a search bar with the text 'enzyme' and a dropdown menu set to 'Articles'. A red navigation bar contains links for 'ABOUT', 'EBOOKS', 'PRIVACY', 'ALERT', 'ORDERS', 'PEOPLE', 'ORDER HISTORY', and 'LOG OFF'. The main search area is titled 'Search' and features three tabs: 'Articles by citation' (selected), 'Articles by text', and 'Publications'. Under the 'Articles by citation' tab, there is a 'Criteria' section with a star icon and the label 'Required'. The criteria include: 'Publication: enzyme' (with a text input field), 'Words in publication name' (selected with a radio button), 'Exact publication name' (radio button), and 'ISSN' (radio button). Below these are input fields for 'Article Title:', 'Author:', 'Volume:', 'Issue:', 'Supplement:', 'Year:', and 'Page:'. A 'Search' button is located at the bottom right of the criteria section.

Article by Text

Open the Articles by Text window by clicking on its thumb-index.

Users can input the following search criteria:

- Search For: type in search query in the Search For box
- Using:
 - All Words
 - Any Words
 - Exact Phrase

in the search query to search
- Boolean Search to help users search
- Within: the search query can be found in
 - Full Text (Including Abstract and Title)
 - Abstract (Includes Title)
 - Authors
 - Titles
- Filter: shortlist results with access to full text only
- Dates:
 - Entire Ranges of Publication Dates
 - Specific date range
- Publications: search within
 - All Publications
 - Only Include Selected
- Results: select the order of the display of results by
 - Recency
 - Relevancy
- Set number of hits displayed per page

The screenshot shows the SpringerLink search page. At the top, there is a search bar with the text 'enzyme' and a dropdown menu set to 'Articles'. Below the search bar is a navigation menu with links for 'ABOUT', 'ENQUIRE', 'PAGES', 'ALERT', 'ORDERS', 'PEOPLE', 'ORDER HISTORY', and 'LOG OFF'. The main heading is 'Search'. There are three tabs: 'Articles by citations', 'Articles by text', and 'Publications'. The 'Articles by text' tab is active. The search criteria section includes: 'Search For: enzyme', 'Using: All Words', 'Within: Full Text (includes Abstract and Title)', 'Filter: Viewable Articles Only', 'Dates: Entire Range of Publication Dates', and 'Publications: All Publications'. There is a list of publications to choose from, including 'Abdominal Imaging Accreditation and Quality Assurance', 'Acta Diabetologica', and 'Acta ethologica'. The 'Results' section shows 'Order By: Relevancy' and 'Display: 10 Hits Per Page'. A 'Search Tips' link is visible in the top right. Callouts point to various elements: 'Enter search query' points to the search bar; 'Enter coverage' points to the 'Using' dropdown; 'Specify publication dates' points to the 'Dates' section; 'Choose order of display of search results' points to the 'Order By' section; and 'Choose publication(s) to be included in the search' points to the list of publications.

Enter search query

Enter coverage

Specify publication dates

Choose order of display of search results

[Search Tips](#)

Choose publication(s) to be included in the search

Search Publications

Open the search by Publications window by clicking on its thumb-index.

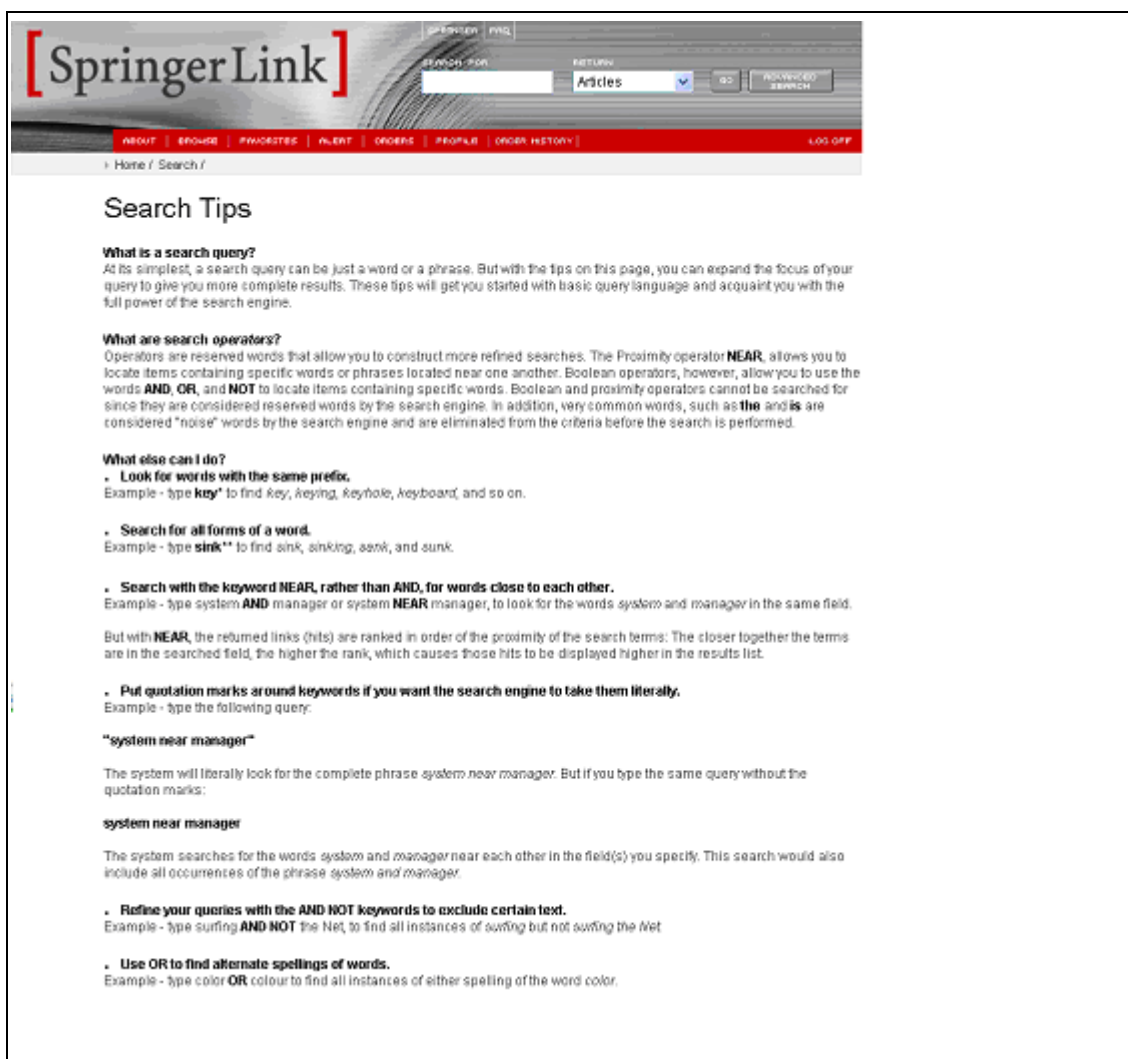
Users can input the following search criteria:

- Search For: type in search query in the Search For box
- Using:
 - All Words
 - Any Words
 - Exact Phrase
 - Boolean Search to help users search
- Within: the search query can be found in
 - Description (Includes Title)
 - Title
- Filter: shortlist results with access to full text only
- Results: set the number of hits displayed per page

The screenshot shows the SpringerLink search interface. At the top, there is a search bar with 'enzyme' entered and a dropdown menu set to 'Publications'. Below the search bar, there are navigation links: ABOUT, BROWSE, FAVORITES, ALERT, ORDERS, PEOPLE, ORDER HISTORY, and LOG OFF. The main search area is titled 'Search' and has three tabs: 'Articles by citation', 'Articles by text', and 'Publications'. The 'Publications' tab is active. Under 'Criteria', there is a 'Search For' field with 'enzyme', a 'Using' dropdown set to 'All Words', a 'Within' section with radio buttons for 'Description (includes Title)' and 'Title' (selected), and a 'Filter' section with a checkbox for 'Viewable Publications Only'. There is a 'Show Advanced Options' button. Under 'Results', there is a 'Display' field set to '10' and 'Hits Per Page', and a 'Search' button. A 'Search Tips' link is located to the right of the search criteria, and a callout box points to it with the text 'Search Tips'.

3.4. Search Tips

SpringerLink provides search tips to help users make every search more effective. Click the 'Search Tips' link on the Advanced Search screens for advice on how best to search on SpringerLink.



What is a search query?
At its simplest, a search query can be just a word or a phrase. But with the tips on this page, you can expand the focus of your query to give you more complete results. These tips will get you started with basic query language and acquaint you with the full power of the search engine.

What are search operators?
Operators are reserved words that allow you to construct more refined searches. The Proximity operator **NEAR**, allows you to locate items containing specific words or phrases located near one another. Boolean operators, however, allow you to use the words **AND**, **OR**, and **NOT** to locate items containing specific words. Boolean and proximity operators cannot be searched for since they are considered reserved words by the search engine. In addition, very common words, such as **the** and **is** are considered "noise" words by the search engine and are eliminated from the criteria before the search is performed.

What else can I do?

- **Look for words with the same prefix.**
Example - type **key*** to find *key*, *keying*, *keyhole*, *keyboard*, and so on.
- **Search for all forms of a word.**
Example - type **sink**** to find *sink*, *sinking*, *sank*, and *sunk*.
- **Search with the keyword NEAR, rather than AND, for words close to each other.**
Example - type *system* **AND** *manager* or *system* **NEAR** *manager*, to look for the words *system* and *manager* in the same field.
But with **NEAR**, the returned links (hits) are ranked in order of the proximity of the search terms. The closer together the terms are in the searched field, the higher the rank, which causes those hits to be displayed higher in the results list.
- **Put quotation marks around keywords if you want the search engine to take them literally.**
Example - type the following query:
"system near manager"
The system will literally look for the complete phrase *system near manager*. But if you type the same query without the quotation marks:
system near manager
The system searches for the words *system* and *manager* near each other in the field(s) you specify. This search would also include all occurrences of the phrase *system and manager*.
- **Refine your queries with the AND NOT keywords to exclude certain text.**
Example - type *surfing* **AND NOT** *the Net*, to find all instances of *surfing* but not *surfing the Net*.
- **Use OR to find alternate spellings of words.**
Example - type *color* **OR** *colour* to find all instances of either spelling of the word *color*.

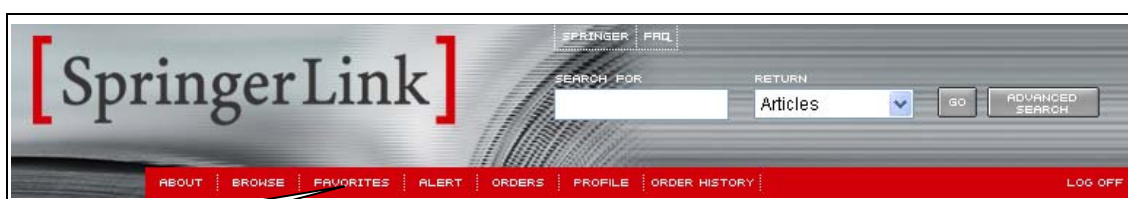
4. Personalized Features

SpringerLink provides users with personalized features for setting up a 'personal' environment. Before any personalized features can be used, users must register (Please refer to [Section 1.2.2. Login/Register.](#)) As SpringerLink offers its tables of contents, abstracts and indices free-of-charge to internet users, anybody who has access to the internet can register for their own personal account with SpringerLink. Subscribers and registered users of institutions can access, view and download the full-text articles within SpringerLink.

The main personalized features in SpringerLink include Favorites and Alert services. You can update or cancel your personalized settings any time when you are online with SpringerLink.

4.1. Favorites

Users can select their own set of favorite books and journals in SpringerLink. Once users log in to their account, their favorite publications are listed on the SpringerLink home page and the contents are one click away.



Click on 'Favorites' on the red menu bar to set-up your favorite publications.

Check your favorite publications

Favorites

1 to 100 of 524

- Abdominal Imaging
- Accreditation and Quality Assurance
- Acta Diabetologica
- Acta ethologica
- Acta Informatica
- Acta Mathematica Sinica
- Acta Mathematicae Applicatae Sinica (English Series)
- Acta Mechanica
- Acta Mechanica Solida Sinica
- Acta Neurochirurgica
- Acta Neuropathologica
- Advances in Biochemical Engineering/Biotechnology
- Advances in Polymer Science
- Advances in Solid State Physics
- Aequationes Mathematicae
- Aesthetic Plastic Surgery
- AI & Society

Select or deselect your publications.

First page
Previous page
Next page
Last page

Jump To: **A B C D E F G H I J K L M**
N O P Q R S T U V W X Y Z

Cancel Apply Changes

Apply Changes to confirm selections

After applying the change of favorites, users need to log off then log in again. The updated favorites will then be shown on the home page of SpringerLink.

What's New on SpringerLink?

No Boundaries. No Waiting.

Pay-per-view now available on SpringerLink.

Due to an overwhelming demand from the research community, SpringerLink now offers a pay-per-view option for journal and some bookseries articles. This option opens the door to expanded research and removes the boundaries non-subscribers often face. Pay-per-view is available to registered users of SpringerLink. Customers use secure or standard purchasing and will then be able to view purchased articles anytime through their Order History.

Browse and Explore

With a collection of journals and book series that account for over 300,000 documents in SpringerLink, the browse and explore functions help users to get quickly to the information and titles they need.

[Browse Publications](#)
[Browse by Online Libraries](#)
[Browse Publishers](#)

New Publications in SpringerLink

SpringerLink welcomes the following new titles in full-text that have recently been added to our collection of online publications.

- [Chromatographia](#)
- [Cognitive Processing](#)
- [Diseases of the Colon & Rectum](#)
- [EcoHealth](#)
- [EcoPhagus](#)
- [European Journal of Forest Research](#)
- [European Journal of Wildlife Research](#)
- [European Radiology Supplements](#)

You are logged in as 'J Smith', a member of 'Scientific University'.

Your individual MetaPress ID is '123-45-678'.

[Table Of Contents Alert](#) [Edit](#)

These issues are now available...

- Volume 3009 Volume 3009/2004 of Lecture Notes in Computer Science**

[Remove Selected Items](#)

This won't affect future alerts.

Favorites

- [Abdominal Imaging](#)**
- [Accreditation and Quality Assurance](#)**
- [Acta Mathematicae Applicatae Sinica \(English Series\)](#)**

Selected favorite titles displayed on home page

4.2. Alert

SpringerLink provides automatic contents information updating services to alert users when there is an update of publications relevant to the research needs of the users. User has a choice in how they wish to receive their alerts: either by e-mail notification or at login to SpringerLink.

There are two types of alerts:

- [Table of Contents Alert](#)
- [Keyword Alert](#)



Click on Alert on the red menu bar for getting to Alerts page.



4.2.1. Table of Contents Alert

Users can set up Table of Contents Alerts for those publications most relevant to their research needs. Users can choose their alerts either by publication name or subject area.

The screenshot shows the SpringerLink interface for setting up a Table of Contents Alert. The page title is "Table Of Contents Alert". Below the title, there is a paragraph explaining the alert configuration options. The page is divided into several sections, each with a corresponding button:

- Publications**: "Browse a list of publications and select your choices individually." Includes a checkbox for "Show only my current selections." and a "Publications" button.
- Subjects**: "Browse lists of publications organized into subject areas." Includes a "Subjects" button.
- Disable All**: "Disable Table Of Contents Alert for all publications." Includes a "Disable All" button.
- Properties**: "Customize the delivery of your alerts." Includes a "Properties" button.
- Update Email Address**: "Change the email address you would like your alerts sent to. Email addresses will not be..."

Callouts on the right side of the image point to the following links:

- [Select by Publications](#) (points to the Publications button)
- [Select by Subjects](#) (points to the Subjects button)
- [Remove all settings](#) (points to the Disable All button)
- [Properties](#) (points to the Properties button)

Click Publications in Table of Contents Alert to get the full list of publications. Users can then select their favorites here.

SpringerLink

SEARCH FOR: RETURN: Articles [GO] [ADVANCED SEARCH]

ABOUT | HOW TO | FAVORITES | ALERT | ORDERS | PROFILE | ORDER HISTORY | LOG OFF

Home / Table Of Contents Alert /

Table Of Contents Alert Publications

1 to 100 of 499

- Abdominal Imaging
- Accreditation and Quality Assurance
- Acta Diabetologica
- Acta Ethologica
- Acta Informatica
- Acta Mathematica Sinica
- Acta Mathematicae Applicatae Sinica (English Series)
- Acta Mechanica
- Acta Mechanica Solida Sinica
- Acta Neurochirurgica
- Acta Neuropathologica
- Advances in Biochemical Engineering/Biotechnology
- Advances in Polymer Science
- Advances in Solid State Physics
- Aequationes Mathematicae
- Aesthetic Plastic Surgery

First page
Previous page
Next page
Last page

Jump To: [GO] [Cancel] [OK]

How do I enable publications for Table Of Contents Alert?

Select or deselect publications from the list of titles at the left.

Click [here](#) to browse lists of publications organized into subject areas.

To cancel selection without applying your changes, click 'Cancel'.

[Cancel]

Check your favorite publications

Or, click subjects in Table of Contents Alert to get the full list of subjects (Online Libraries). Users can then select their favorites subjects and titles.

SpringerLink

SEARCH FOR: RETURN: Articles [GO] [ADVANCED SEARCH]

ABOUT | HOW TO | FAVORITES | ALERT | ORDERS | PROFILE | ORDER HISTORY | LOG OFF

Home / Table Of Contents Alert /

Table Of Contents Alert Subjects

- [Chemical Sciences](#)
- [Computer Science](#)
- [Economics](#)
- [Engineering](#)
- [Environmental Sciences](#)
- [Geosciences](#)
- [Law](#)
- [Life Sciences](#)
- [Mathematics](#)
- [Medicine](#)
- [Physics and Astronomy](#)

Previous page
Next page

How do I enable publications for Table Of Contents Alert?

Select a subject from the list at the left to view the titles within it.

Click [here](#) to browse lists of publications not organized into subject areas.

If you are finished selecting titles, click 'OK'.

[OK]

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Click here to get the list of books and journals under this subject

Table Of Contents Alert Subjects

Chemical Sciences

- Accreditation and Quality Assurance
- Advances in Biochemical Engineering/Biotechnology
- Advances in Polymer Science
- Amino Acids
- Analytical and Bioanalytical Chemistry
- Applied Mathematics and Optimization
- Applied Microbiology and Biotechnology
- Applied Physics A: Materials Science & Processing
- Applied Physics B: Lasers and Optics
- Archive for History of Exact Sciences
- Archives of Environmental Contamination and Toxicology
- Bioprocess and Biosystems Engineering
- Bulletin of Environmental Contamination and Toxicology
- Chromatographia
- Colloid & Polymer Science

Previous page
Next page

How do I enable publications for Table Of Contents Alert?

Select or deselect publications from the list of titles organized into subject areas at the left.

Click [here](#) to browse lists of publications not organized into subject areas.

If you want to return to the complete list of subjects areas, click 'Continue'.

If you have finished selecting publications, click 'OK'.

After selection, users have to click OK to confirm the alert service.

Table Of Contents Alert Publications Confirmation

1 to 3 of 3

- Abdominal Imaging
- Accreditation and Quality Assurance
- Acta Mathematicae Applicatae Sinica (English Series)

First page
Previous page
Next page
Last page

Congratulations!

You are currently registered with Table Of Contents Alert for these titles.

If you would like to modify your selections, click 'Continue'.

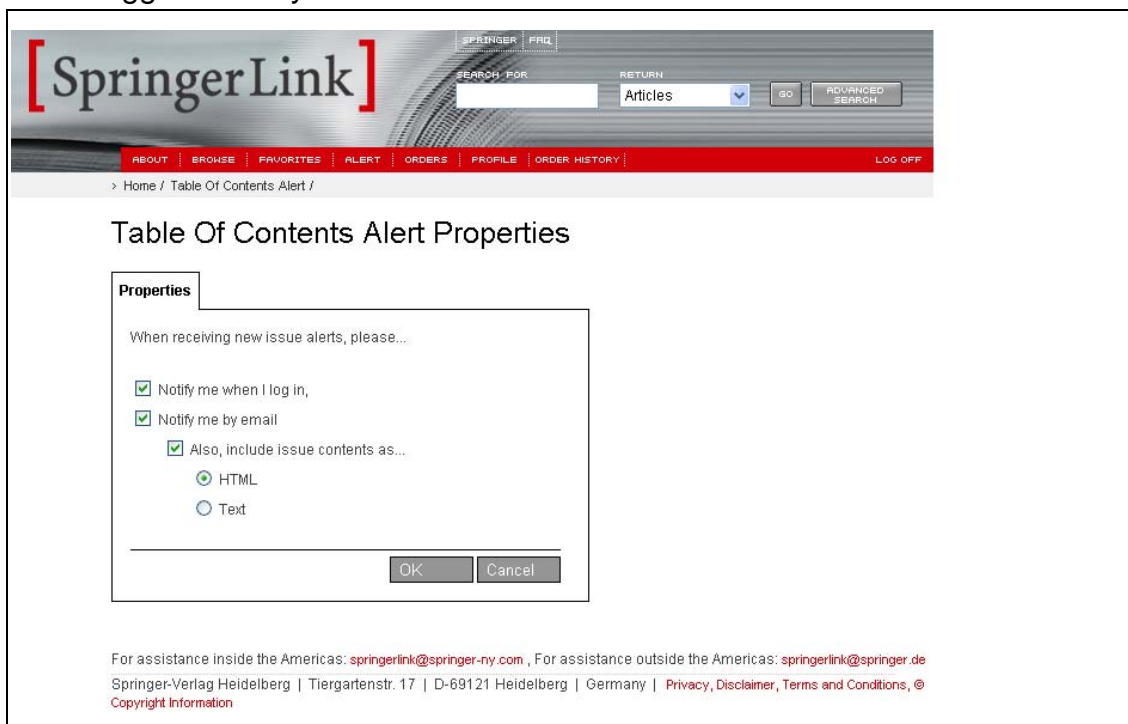
If you are satisfied with your selections, click 'OK'.

Users can cancel the registered alert any time by Disabling all the registered entries.

Click the Disable All button in the Table of Contents Alert to get to the following screen. Click OK to confirm the cancellation.

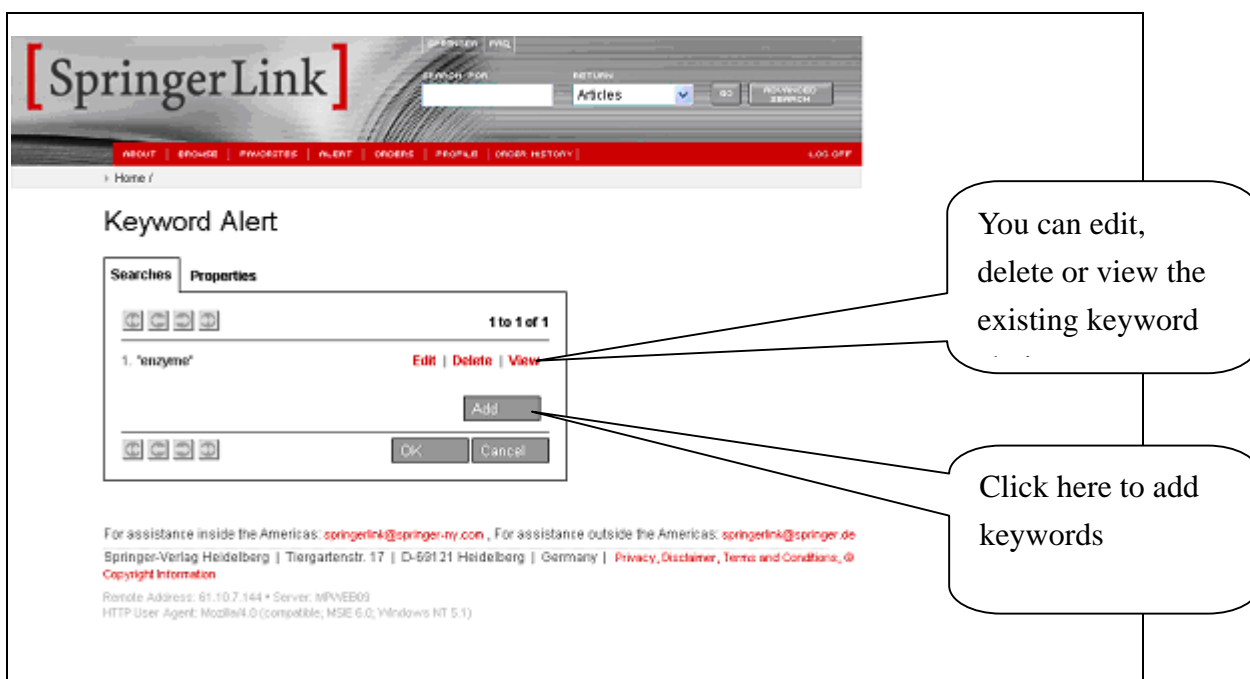


Click the Properties button in the Table of Contents Alert to get to the following screen. Users can choose how to receive the alert from SpringerLink: when logged in or by email.



4.2.2. Keyword Alert

A more specific alerting service can be found in SpringerLink called 'Keyword Alert'. It allows users to define a number of keywords for new contents alerts. Whenever there is any new publications posted that contain the keywords, the user will receive an alert. Users can edit their choices as their research needs change.



The screenshot shows the SpringerLink 'Keyword Alert' page. At the top, there is a search bar with 'Articles' selected and a 'GO' button. Below the search bar is a navigation menu with links for 'ABOUT', 'BROWSE', 'REGISTER', 'ALERT', 'ORDERS', 'PROFILE', 'ORDER HISTORY', and 'LOG OFF'. The main heading is 'Keyword Alert'. There are two tabs: 'Searches' and 'Properties'. Under 'Searches', there is a list of keywords. The first keyword is '1. 'enzymes'' with '1 to 1 of 1' items. Next to it are links for 'Edit', 'Delete', and 'View'. Below the list is an 'Add' button. At the bottom of the list are 'OK' and 'Cancel' buttons. Two callout boxes are present: one pointing to the 'Edit', 'Delete', and 'View' links with the text 'You can edit, delete or view the existing keyword', and another pointing to the 'Add' button with the text 'Click here to add keywords'. At the bottom of the page, there is contact information for Springer-Verlag Heidelberg and technical details like 'Remote Address: 61.107.144' and 'HTTP User Agent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)'.

Click Add to go to the following screen for registering new keywords. The screen is similar to the Advanced Search screen.

SpringerLink

SEARCH FOR: RETURN: **Articles** GO ADVANCED SEARCH

ABOUT | EPOWER | FAVORITES | ALERT | ORDERS | PROFILE | ORDER HISTORY | LOG OFF

Home / Keyword Alert /

Keyword Alert

Search

Criteria

Search For:

Using: **All Words**

Within: Full Text (Includes Abstract and Title)
 Abstract (includes Title)
 Authors
 Title

Filter: Viewable Articles Only

Publications: All Publications
 Only (include as many as desired)

Abdominal Imaging
 Accreditation and Quality Assessment
 Acta Diabetologica
 Acta ethologica

Return: Journal Articles

Results

Order By: Recency
 Relevancy

Display: Hits Per Page
 Show Search Results Now

What is the purpose of this dialog box?

You can modify the search criteria to be used for an existing Keyword Alert search.

If you do not check the box the Keyword Alert search will be finalized immediately. However, if you aren't satisfied with a search you may simply Delete the Keyword Alert search from the list on the previous page and add another.

The following screen is the confirmation of the keyword alert setting. Users just need to click the Finish button to confirm.

The screenshot shows the SpringerLink search results page. The search criteria are set to 'enzyme'. Two search results are displayed. The first result is titled 'The honorary enzyme haemoglobin turns out to be a real enzyme'. The second result is titled 'Enzyme-to-enzyme channelling of symmetric Krebs cycle intermediates in pancreatic islet cells'. At the bottom of the search results, there are two buttons: 'Finish' and 'Modify'. Two callout boxes provide instructions: one points to the 'Finish' button with the text 'Click Finish to complete the keyword alert', and another points to the 'Modify' button with the text 'Click Modify to return to previous screens to modify the keyword setting'. Navigation links like 'Next page', 'Previous page', 'Next page', and 'Last page' are also visible.

The screenshot shows the 'Keyword Alert' dialog box in SpringerLink. It has two tabs: 'Searches' and 'Properties'. Under the 'Searches' tab, there are two search terms listed: '1. 'copper'' and '2. 'enzyme''. Each term has 'Edit', 'Delete', and 'View' options next to it. There is an 'Add' button at the bottom right of the list. At the very bottom of the dialog box, there are 'OK' and 'Cancel' buttons. Below the dialog box, there is a footer with contact information for SpringerLink, including email addresses for assistance in and outside the Americas, and a copyright notice.

5. Other Features

5.1. Reference Linking

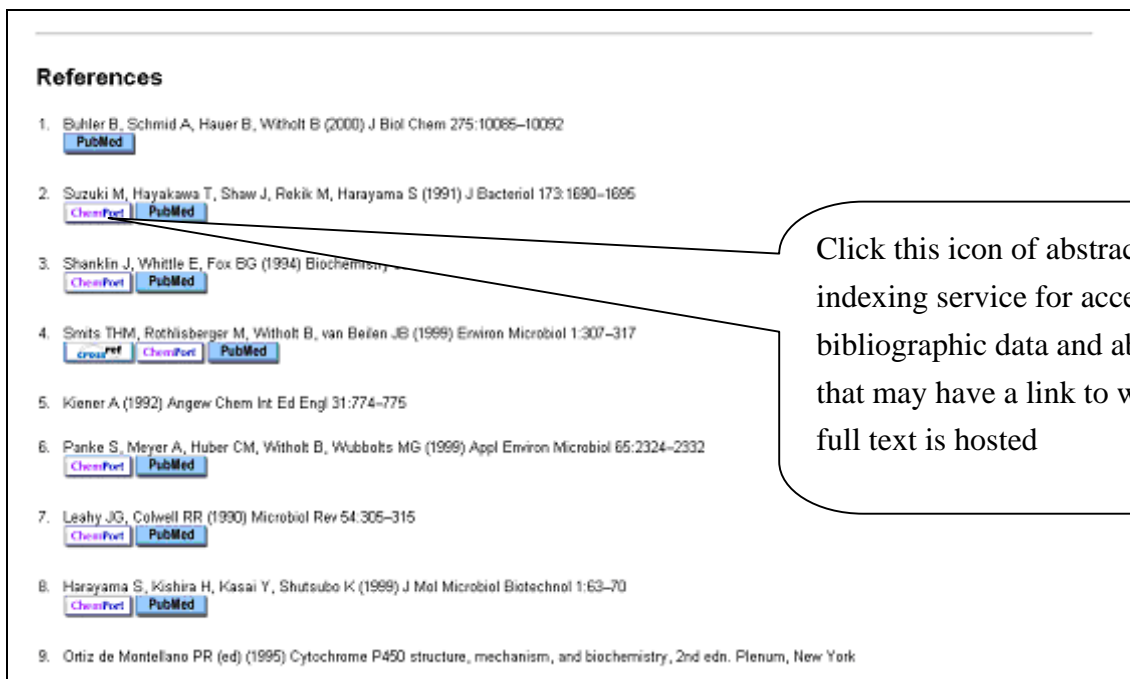
SpringerLink allows users to connect with SpringerLink directly or via links to many collaborating partners including abstracting and indexing services, agencies, aggregators, other third party providers and vice versa.

Viewing the cited reference list of a full-text article in SpringerLink, you will find icons of portals where the citations are linked to the relevant contents hosted in the sites of the co-operating partners of SpringerLink. If you are also subscribing to the services of the collaborating partners, you will be able to view bibliographic citations, abstracts, reviews or even full text via these reference links.

SpringerLink is a founding member of CrossRef, a free collaborative service that lets researchers directly access the contents of more than 200 publishers, libraries, agents and affiliates that account for over five million articles in over 8,000 journals.

Click on the [SpringerLink] icon to activate the crossref function, which will link you seamlessly to the cited article on another site. If you are also a subscriber to the service of the linked publisher, you can have access to view bibliographic citations, abstracts, reviews or even full text seamlessly.

Thus, in order to get the reference lists, users can click the [reference linking](#) icon in full text in HTML format. SpringerLink will display the following screen.



The screenshot shows a list of nine references. Each reference entry includes a list of authors, the year, journal title, volume, and page numbers. Below each entry are one or more small icons for abstracting and indexing services: PubMed, ChemPort, and CrossRef. A callout box with a pointer to the ChemPort icon contains the following text:

Click this icon of abstracting and indexing service for access to the bibliographic data and abstract that may have a link to where the full text is hosted

References

1. Butler B, Schmid A, Hauer B, Witholt B (2000) *J Biol Chem* 275:10065–10062
[PubMed](#)
2. Suzuki M, Hayakawa T, Shaw J, Rekkik M, Harayama S (1991) *J Bacteriol* 173:1690–1695
[ChemPort](#) [PubMed](#)
3. Shankin J, Whittle E, Fox BG (1994) *Biochemistry*
[ChemPort](#) [PubMed](#)
4. Smits THM, Rothlisberger M, Witholt B, van Beilen JB (1999) *Environ Microbiol* 1:307–317
[CrossRef](#) [ChemPort](#) [PubMed](#)
5. Kiener A (1992) *Angew Chem Int Ed Engl* 31:774–775
6. Panke S, Meyer A, Huber CM, Witholt B, Wubbolts MG (1999) *Appl Environ Microbiol* 65:2324–2332
[ChemPort](#) [PubMed](#)
7. Leahy JS, Colwell RR (1990) *Microbiol Rev* 54:305–315
[ChemPort](#) [PubMed](#)
8. Harayama S, Kishira H, Kasai Y, Shutsubo K (1999) *J Mol Microbiol Biotechnol* 1:63–70
[ChemPort](#) [PubMed](#)
9. Ortiz de Montellano PR (ed) (1995) *Cytochrome P450 structure, mechanism, and biochemistry*, 2nd edn. Plenum, New York

[Back to Table of Contents](#)

Via Reference Linking, you are now linked to the data of the relevant article from collaborating partner sites. Depending on if you are also subscribers or what kind of subscription you have in these services, the level of access to the contents data varies.

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Eight Histidine Residues Are Catalytically Essential in a Membrane-Associated Iron Enzyme, Stearoyl-CoA Desaturase, and Are Conserved in Alkane Hydroxylase and Xylene Monooxygenase

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Shanklin, John; Whittle, Edward; Fox, Brian G.

Biochemistry (1994), 33(43), 12787-94 CODEN: BICHAW, ISSN: 0006-2960, English.

The eukaryotic fatty acid desaturases are iron-containing enzymes that catalyze the NAD(P)H- and O₂-dependent introduction of double bonds into methylene-interrupted fatty acyl chains. Examn. of deduced amino acid sequences for the membrane desaturases from mammals, fungi, insects, higher plants, and cyanobacteria has revealed three regions of conserved primary sequence containing HX(3 or 4)H, HX(2 or 3)HH, and HX(2 or 3)HH. This motif is also present in the bacterial membrane enzymes alkane hydroxylase (ω -hydroxylase) and xylene monooxygenase. Hydropathy analyses indicate that these enzymes contain up to

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Users click the CrossRef icon, SpringerLink will forward you to the original article.

References

1. Buhler B, Schmid A, Hauer B, Witholt B (2000) J Biol Chem 275:10066–10092
[CrossRef](#) [PubMed](#)
2. Suzuki M, Hayakawa T, Shaw J, Reik M, Harayama S (1991) J Bacteriol 173:1690–1695
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3. Shankin J, Whittle E, Fox BG (1994) Biochemistry 33:12787–12794
[CrossRef](#) [PubMed](#)
4. Smits THM, Rothlisberger M, Witholt B (1999) Environ Microbiol 1:307–317
[CrossRef](#) [PubMed](#)
5. Kiener A (1992) Angew Chem Int Ed Engl 31:774–775
6. Panke S, Meyer A, Huber CM, Witholt B, Wubbols MG (1999) Appl Environ Microbiol 65:2324–2332
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7. Leahy JG, Colwell RR (1990) Microbiol Rev 54:305–315
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8. Harayama S, Kishira H, Kasai Y, Shutsubo K (1999) J Mol Microbiol Biotechnol 1:63–70
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9. Ortiz de Montellano PR (ed) (1995) Cytochrome P450 structure, mechanism, and biochemistry, 2nd edn. Plenum, New York

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 Roman Davydov, Thomas M. Makris, Victoria Kofman, David E. Werst, Stephen G. Sligar, and Brian M. Hoffman
 J. Am. Chem. Soc. 2001, 123(7) pp 1403 - 1415. (Article) DOI: 10.1021/ja003563j

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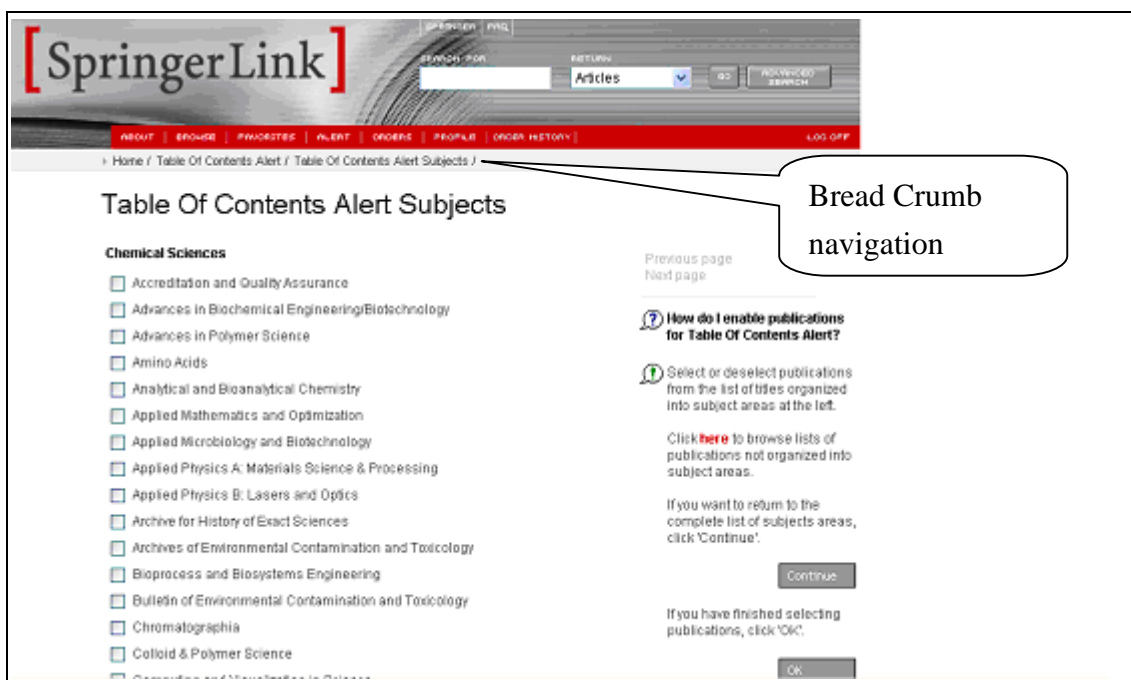
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User needs to log in to the corresponding publication / website

5.2. 'Bread Crumb'

With the Bread Crumb navigation, SpringerLink lets users quickly retrace their steps without relying on the back button on the web browser. Users can click on the thread to return to previous steps in one click.



The screenshot shows the SpringerLink interface. At the top, there is a search bar with the text 'Articles' and a 'GO' button. Below the search bar is a navigation menu with links: ABOUT, Browse, Favorites, Alert, Orders, People, Order History, and LOG OFF. The main content area is titled 'Table Of Contents Alert Subjects'. On the left, there is a list of subject areas under the heading 'Chemical Sciences', each with a checkbox. On the right, there are instructions for enabling publications for the Table Of Contents Alert, including a 'Continue' button and an 'OK' button. A callout box with the text 'Bread Crumb navigation' points to the breadcrumb path: Home / Table Of Contents Alert / Table Of Contents Alert Subjects.

5.3. Springer

Users can access Springer’s global website by clicking the SPRINGER button on the top of each page.

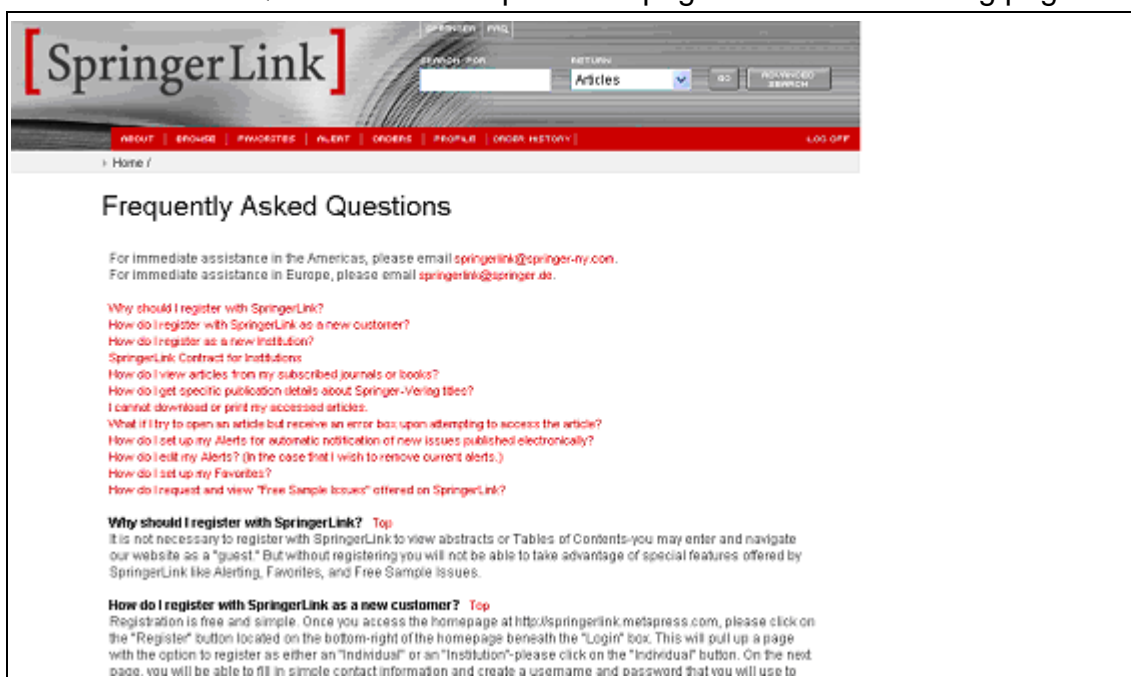


5.4. FAQ (Frequently Asked Questions)

SpringerLink puts frequently asked questions on the FAQ page to help users become familiar with SpringerLink and find the answers they need quickly.

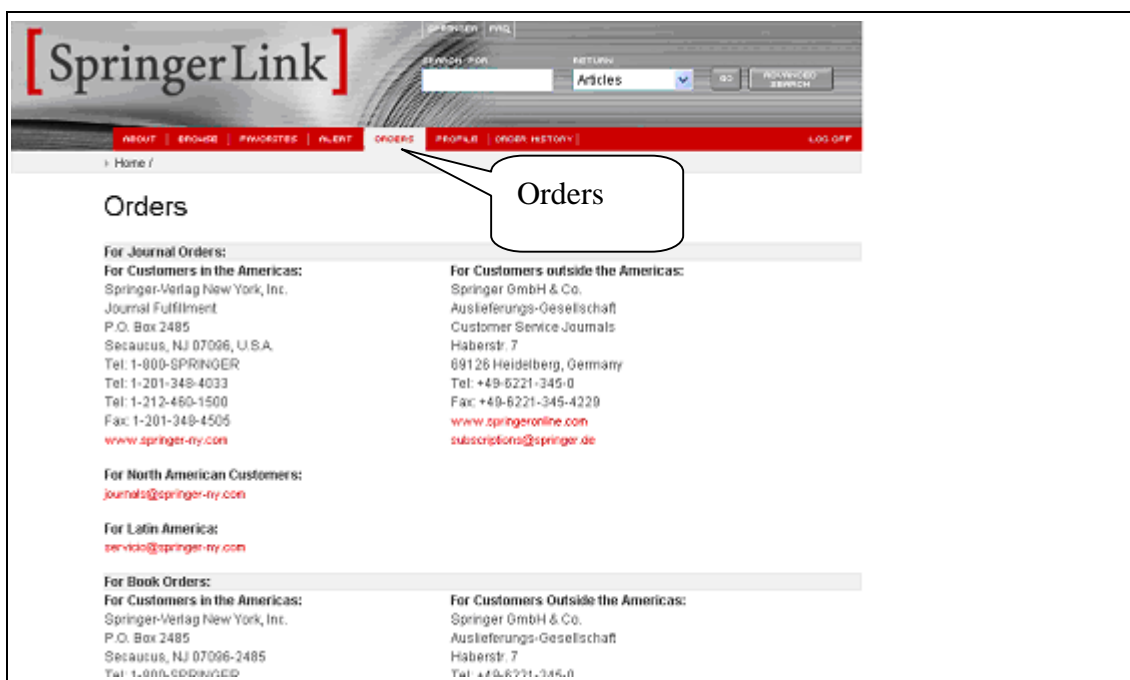


Click the FAQ button on the top of each page to see the following page.



5.5. ORDERS

SpringerLink puts all the addresses, telephone numbers and email addresses of Customer Services around the world on the Orders page for you to contact.

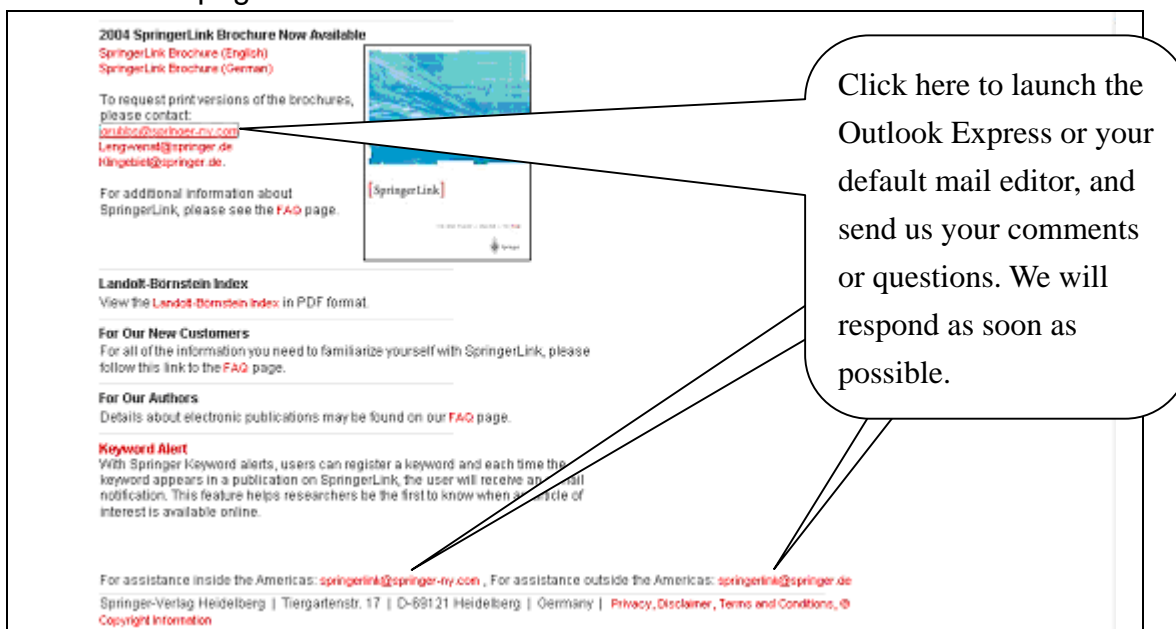


The screenshot shows the SpringerLink website interface. At the top, there is a search bar with the text 'SEARCH FOR' and a dropdown menu set to 'Articles'. Below the search bar is a navigation menu with links: ABOUT, browse, favorites, ALERT, **ORDERS**, PEOPLE, ORDER HISTORY, and LOG OFF. A callout box labeled 'Orders' points to the 'ORDERS' link in the navigation menu. The main content area is titled 'Orders' and contains contact information for different customer groups:

- For Journal Orders:**
 - For Customers in the Americas:** Springer-Verlag New York, Inc. Journal Fulfillment, P.O. Box 2485, Secaucus, NJ 07096, U.S.A. Tel: 1-800-SPRINGER, Tel: 1-201-349-4033, Tel: 1-212-460-1500, Fax: 1-201-349-4505, www.springer-ny.com
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6. Help

SpringerLink provides users our contact information. The contact points are on the home page.



The screenshot shows the SpringerLink home page with several sections. A callout box on the right side of the page contains the text: "Click here to launch the Outlook Express or your default mail editor, and send us your comments or questions. We will respond as soon as possible." The callout box points to the email addresses listed in the "To request print versions of the brochures, please contact:" section. The email addresses are: grubbs@springer-ny.com, Lengwens@springer.de, and Klingebiel@springer.de. Other sections on the page include "2004 SpringerLink Brochure Now Available", "Landolt-Börnstein Index", "For Our New Customers", "For Our Authors", and "Keyword Alert".

In addition, there is more contact information not listed on the website:

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