



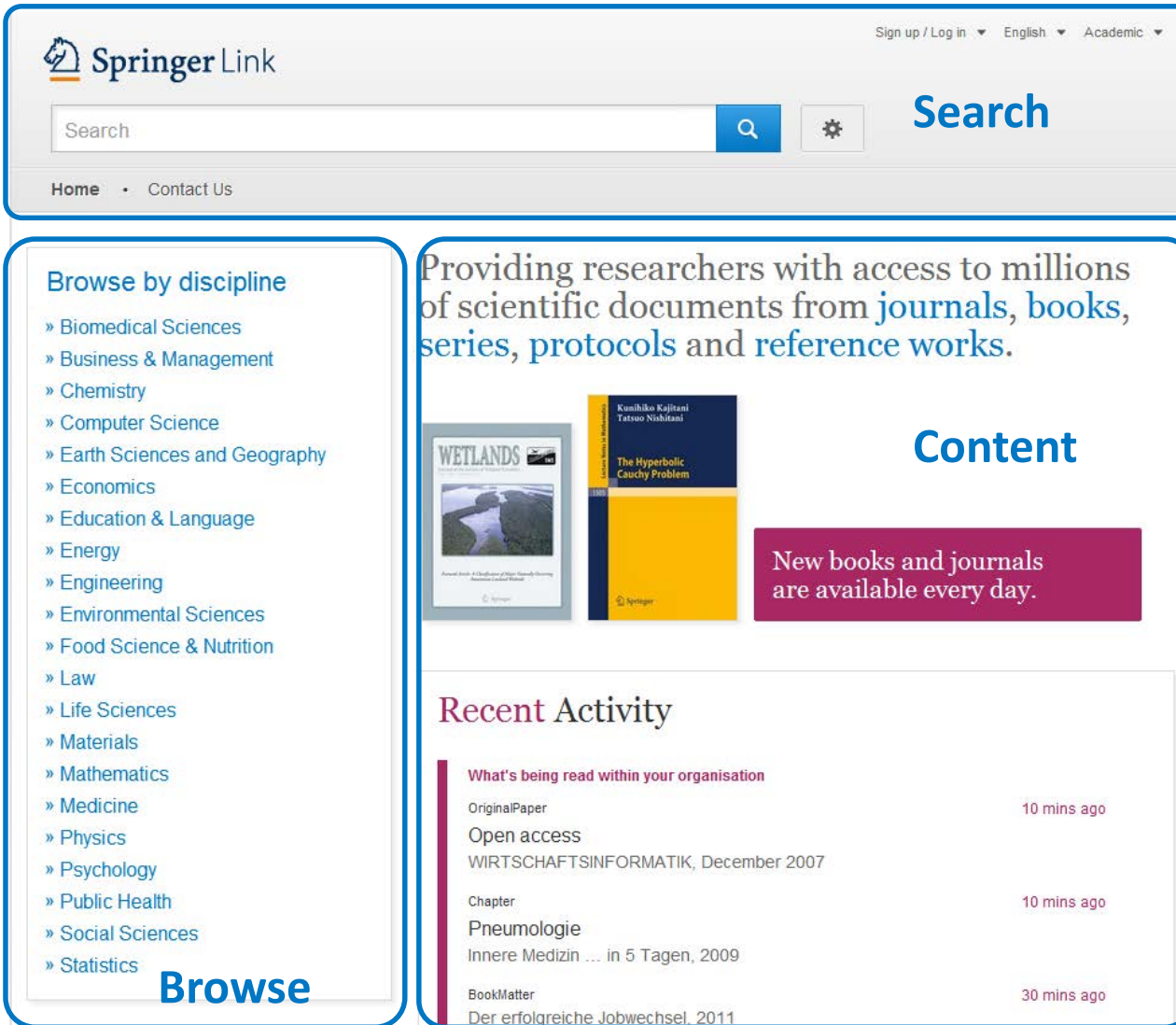
SpringerLink

Training guide for the new SpringerLink

Homepage

<http://link.springer.com>

Homepage



The screenshot shows the SpringerLink homepage. At the top left is the SpringerLink logo. To the right are links for 'Sign up / Log in', 'English', and 'Academic'. Below the logo is a search bar with a magnifying glass icon and a gear icon. A 'Search' button is to the right of the search bar. Below the search bar are links for 'Home' and 'Contact Us'. On the left side, there is a 'Browse by discipline' section with a list of 18 categories, each preceded by a right-pointing arrow. At the bottom of this list is a large 'Browse' button. The main content area features a large heading: 'Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works.' Below this text are two book covers: 'WETLANDS' and 'The Hyperbolic Cauchy Problem'. To the right of the book covers is a purple box with the text 'Content' and 'New books and journals are available every day.' Below this is a 'Recent Activity' section with a sub-heading 'What's being read within your organisation'. It lists three items: 'OriginalPaper' (10 mins ago), 'Open access' (10 mins ago), and 'BookMatter' (30 mins ago).

Springer Link

Sign up / Log in English Academic

Search

Home Contact Us

Browse by discipline

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

Browse

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

Content

New books and journals are available every day.

Recent Activity

What's being read within your organisation

OriginalPaper	10 mins ago
Open access WIRTSCHAFTSINFORMATIK, December 2007	
Chapter Pneumologie Innere Medizin ... in 5 Tagen, 2009	10 mins ago
BookMatter Der erfolgreiche Jobwechsel, 2011	30 mins ago

Homepage

Divided into 3 parts:

- **Search** functionality
- **Browse** functionality
- **Content** offered according to your profile

Homepage



New books and journals are available every day.

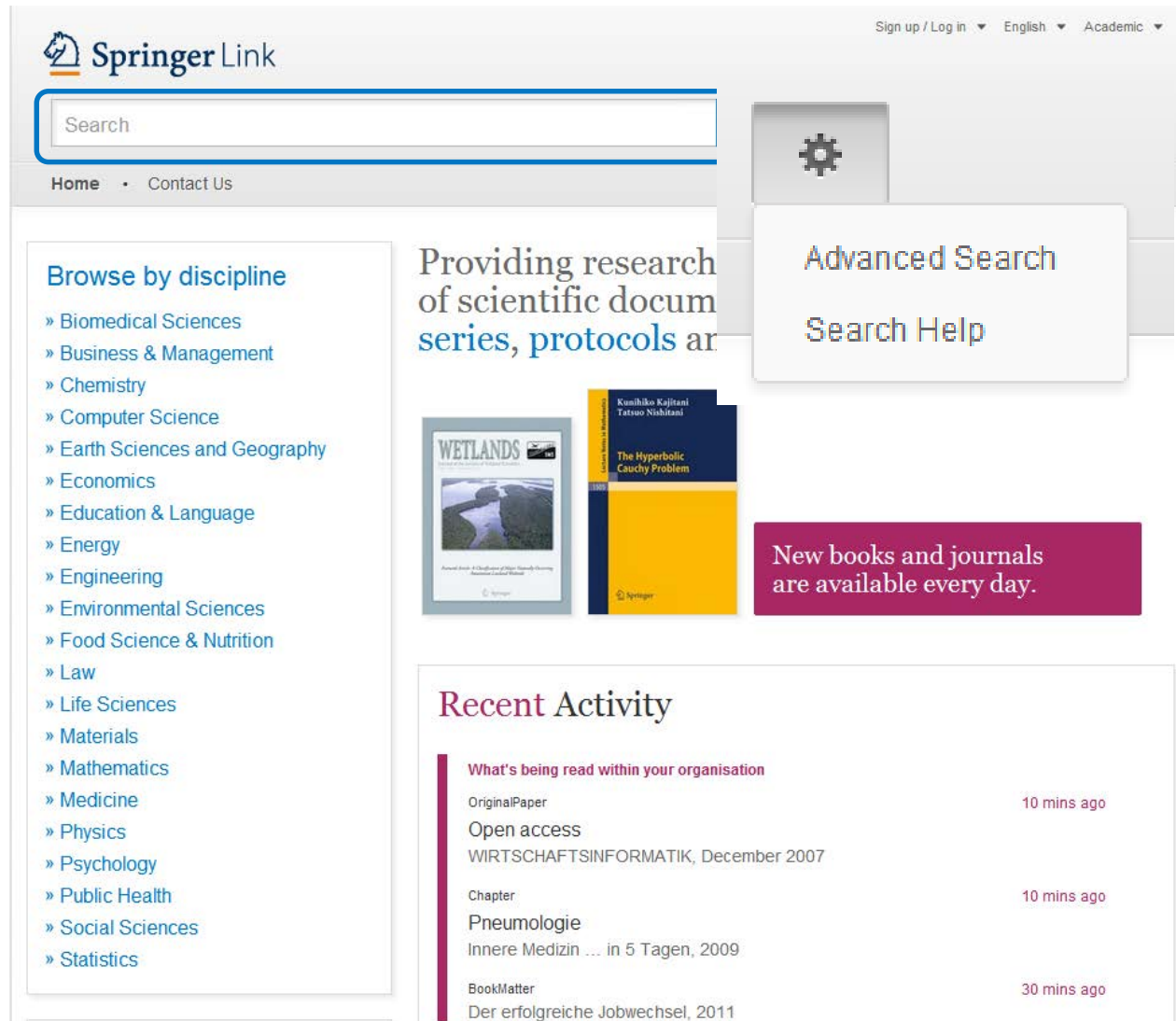
Recent Activity

What's being read within your organisation

- OriginalPaper 10 mins ago
- Open access
WIRTSCHAFTSINFORMATIK, December 2007
- Chapter 10 mins ago
- Pneumologie
Innere Medizin ... in 5 Tagen, 2009
- BookMatter 30 mins ago
- Der erfolgreiche Jobwechsel, 2011

In this area you get the most recent downloads within your organization listed.

Homepage



The screenshot shows the SpringerLink homepage. At the top left is the SpringerLink logo. To its right are links for 'Sign up / Log in', 'English', and 'Academic'. Below the logo is a search bar with the placeholder text 'Search'. Underneath the search bar are links for 'Home' and 'Contact Us'. On the left side, there is a 'Browse by discipline' section with a list of categories: Biomedical Sciences, Business & Management, Chemistry, Computer Science, Earth Sciences and Geography, Economics, Education & Language, Energy, Engineering, Environmental Sciences, Food Science & Nutrition, Law, Life Sciences, Materials, Mathematics, Medicine, Physics, Psychology, Public Health, Social Sciences, and Statistics. In the center, there is a promotional banner for 'Providing research of scientific documents, series, protocols and...' with a gear icon and a dropdown menu containing 'Advanced Search' and 'Search Help'. Below this banner are two book covers: 'WETLANDS' and 'The Hyperbolic Cauchy Problem'. To the right of the book covers is a purple box with the text 'New books and journals are available every day.' At the bottom, there is a 'Recent Activity' section with a sub-heading 'What's being read within your organisation' and a list of recent reads with timestamps: 'OriginalPaper' (10 mins ago), 'Open access WIRTSCHAFTSINFORMATIK, December 2007' (10 mins ago), 'Chapter Pneumologie Innere Medizin ... in 5 Tagen, 2009' (10 mins ago), and 'BookMatter Der erfolgreiche Jobwechsel, 2011' (30 mins ago).

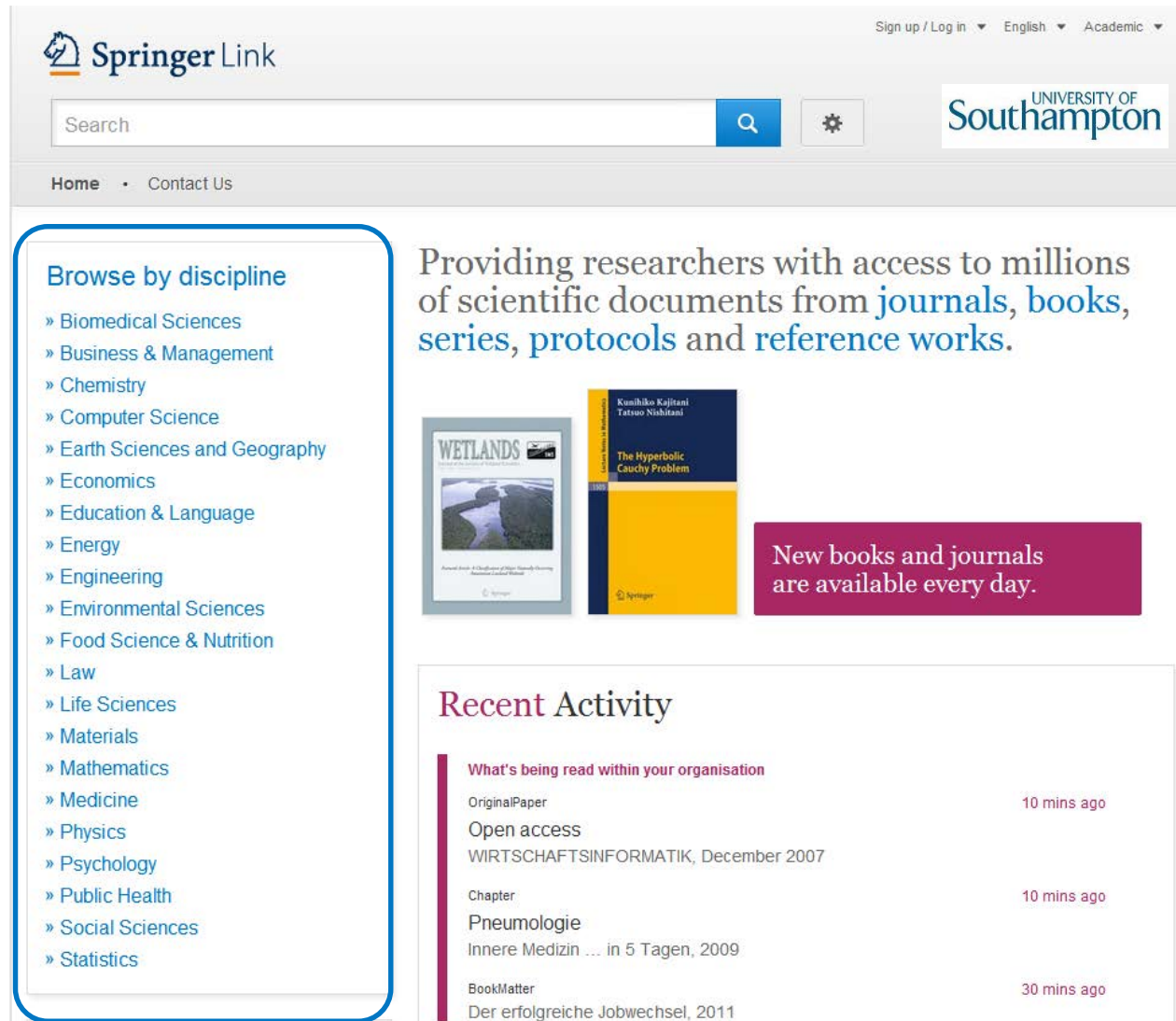
Search

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

Therefore the search is the biggest and most prominent element on the page.

Advanced search and help functionality can be accessed by clicking the 'settings wheel'

Homepage



The screenshot shows the SpringerLink homepage. At the top left is the SpringerLink logo. To the right are links for 'Sign up / Log in', 'English', and 'Academic'. Below the logo is a search bar with a magnifying glass icon and a gear icon. A navigation bar contains 'Home' and 'Contact Us'. The main content area features a 'Browse by discipline' list on the left, a central promotional banner for new books and journals, and a 'Recent Activity' section at the bottom.

Browse by discipline

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

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

New books and journals are available every day.

Recent Activity

What's being read within your organisation

OriginalPaper	10 mins ago
Open access WIRTSCHAFTSINFORMATIK, December 2007	
Chapter	10 mins ago
Pneumologie Innere Medizin ... in 5 Tagen, 2009	
BookMatter	30 mins ago
Der erfolgreiche Jobwechsel, 2011	

Browse

You can also access our content through browsing. If you click on the topic of your choice you will end up on the search results page, showing all entries for this **scientific discipline**.

Sub disciplines can be chosen on the search results page as filter.

Homepage

- » Physics
- » Psychology
- » Public Health
- » Social Sciences
- » Statistics

Browse 5,769,405 resources

Articles	4,316,203
Chapters	1,158,467
Reference Work Entries	266,078
Protocols	28,657

Browse by type of content (1)

Below the sector of industry navigation you find a list of **smallest content types**:

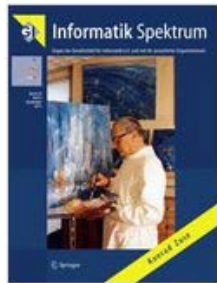
- (Journal) Articles
- (Book) Chapters
- References Work Entries
- Protocols

If you click into “Articles” you will end up on a **search result list** of all articles.

You will find more **filter options** there.

Homepage

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



New books and journals are available every day.

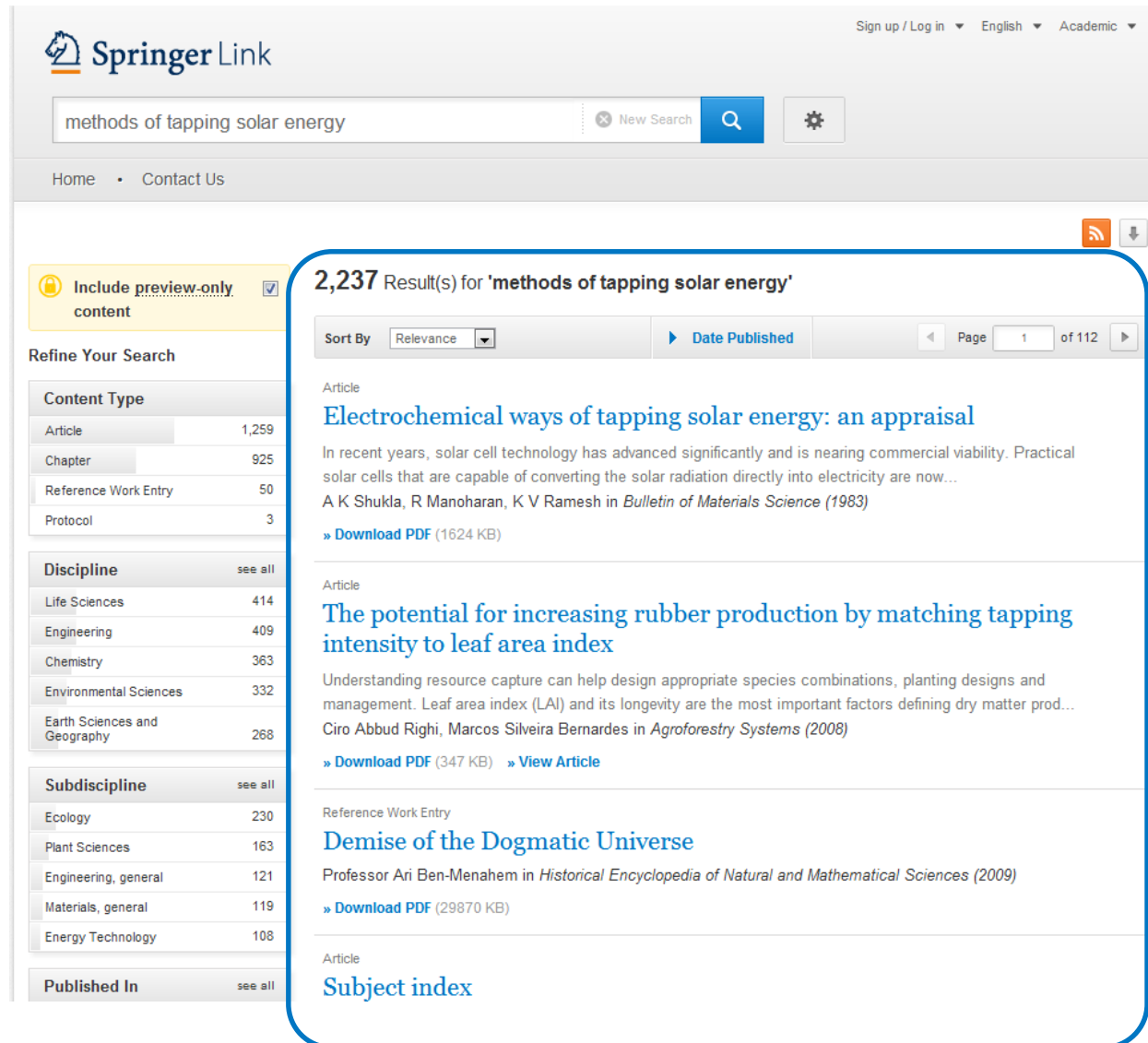
Browse by type of content (2)

On top of the content area you find an introduction text with bigger content units listed.

- Journals
- Books
- Series
- Protocols
- Reference works

If you click into “Journals” you will end up on a **search result list** of all journals. You will find more **filter options** there.

Search Result Page



The screenshot shows the SpringerLink search interface. At the top, there is a search bar containing the text "methods of tapping solar energy". To the right of the search bar are buttons for "New Search", a magnifying glass icon, and a settings gear icon. Below the search bar, there are navigation links for "Home" and "Contact Us".

On the left side, there is a sidebar with several sections:

- Include preview only content:** A yellow box with a lock icon and a checked checkbox.
- Refine Your Search:** A section with a "Content Type" filter showing counts for Article (1,259), Chapter (925), Reference Work Entry (50), and Protocol (3).
- Discipline:** A list of disciplines with counts: Life Sciences (414), Engineering (409), Chemistry (363), Environmental Sciences (332), Earth Sciences and Geography (268).
- Subdiscipline:** A list of subdisciplines with counts: Ecology (230), Plant Sciences (163), Engineering, general (121), Materials, general (119), Energy Technology (108).
- Published In:** A section with a "see all" link.

The main content area displays the search results for "2,237 Result(s) for 'methods of tapping solar energy'". It includes a "Sort By" dropdown menu set to "Relevance", a "Date Published" button, and a pagination control showing "Page 1 of 112".

The first result is an Article titled "Electrochemical ways of tapping solar energy: an appraisal". The abstract states: "In recent years, solar cell technology has advanced significantly and is nearing commercial viability. Practical solar cells that are capable of converting the solar radiation directly into electricity are now..." The authors are A K Shukla, R Manoharan, and K V Ramesh, published in *Bulletin of Materials Science* (1983). There is a link to "Download PDF (1624 KB)".

The second result is an Article titled "The potential for increasing rubber production by matching tapping intensity to leaf area index". The abstract states: "Understanding resource capture can help design appropriate species combinations, planting designs and management. Leaf area index (LAI) and its longevity are the most important factors defining dry matter prod..." The authors are Ciro Abbud Righi, Marcos Silveira Bernardes, published in *Agroforestry Systems* (2008). There are links to "Download PDF (347 KB)" and "View Article".

The third result is a Reference Work Entry titled "Demise of the Dogmatic Universe". The author is Professor Ari Ben-Menahem, published in *Historical Encyclopedia of Natural and Mathematical Sciences* (2009). There is a link to "Download PDF (29870 KB)".

The fourth result is an Article titled "Subject index".

Search Results

To the right you get your search results listed.

By default you get **all results** displayed, i.e. content you have licensed and **preview-only** content.

Search Result Page



Include preview-only content

2,102 Result(s) for 'methods of tapping solar energy'

Sort By: Relevance | Date Published | Page 1 of 106

Your search also matched 135 preview-only results, e.g.
[Energy distribution and biological productivity in Korean pine plantation](#)
[» Include preview-only content](#)

Article
Electrochemical ways of tapping solar energy: an appraisal
In recent years, solar cell technology has advanced significantly and is nearing commercial viability. Practical solar cells that are capable of converting the solar radiation directly into electricity are now...
A K Shukla, R Manoharan, K V Ramesh in *Bulletin of Materials Science* (1983)
[» Download PDF](#) (1624 KB)

Content Type	
Article	1,146
Chapter	906
Reference Work Entry	47
Protocol	3

Discipline	
Life Sciences	411
Engineering	408
Chemistry	360

Only see licensed content

If you like to see only content you are entitled to, you have to **uncheck the yellow box above the search result filter options to the right.**

Then only search results you have full-text access to will be listed.

Search Result Page

(2)

 Include preview-only content

Refine Your Search

Content Type

Article	1,259
Chapter	925
Reference Work Entry	50
Protocol	3

Discipline see all

Life Sciences	414
Engineering	409
Chemistry	363
Environmental Sciences	332
Earth Sciences and Geography	288

Subdiscipline see all

Ecology	230
---------	-----

2,237 Result(s) for 'methods of tapping solar energy'

Sort By Relevance ▶ Date Published Page 2 of 112

 Article

A Fast Model for the Reconstruction of Spectral Solar Irradiance in the Near- and Mid-Ultraviolet

We present a model for the reconstruction of spectral solar irradiance between 200 and 400 nm. This model is an extension of the total solar irradiance (TSI) model of Crouch et al. (*Astrophys. J.* C. Bolduc, P. Charbonneau, V. Dumoulin, M. S. Bourqui, A. D. Crouch in *Solar Physics* (2012) (1)

[» Look Inside](#) [» Get Access](#)

 Article

Emerging technologies to power next generation mobile electronic devices using solar energy

Mobile electronic devices such as MP3, mobile phones, and wearable or implanted medical devices have already or will soon become a necessity in peoples' lives. However, the further development of these devices... Dewei Jia, Yubo Duan, Jing Liu in *Frontiers of Energy and Power Engineering in China* (2009)

[» Look Inside](#) [» Get Access](#)

Preview-only content

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

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

Search Result Page

- (2) Chapter (1)
Solar Energy
 This paper is subdivided into three main paragraphs: basic principles of **solar** radiation, main applications, and (3)
 a case ... first paragraph will introduce the basic principles of **solar energy**, highlighting the ad...
 (4) Roberto Barile in *Sustainable Development and Environmental Management (2008)* (5)
 » [Download PDF](#) (1005 KB) (6)

Chapter

Solar Energy

Enthusiasts for **solar** power need to be reminded that, through ... Sun is already our primary source of renewable **energy**. Or to put it another way **solar** photons convert naturally into chemical fuel and...1...Photo...
 Claudio Vita-Finzi in *The Sun (2008)*

» [Download PDF](#) (602 KB) » [View Chapter](#)

Journal

Applied Solar Energy

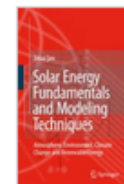
Volume 43 / 2007 - Volume 48 / 2012



Book

Solar Energy Fundamentals and Modeling Techniques

Atmosphere, Environment, Climate Change and Renewable Energy
 Zekai Şen (2008)



Structure of list items within a search result page

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

Search Result Page

Chapter (1)

Solar Energy

This paper is subdivided into three main paragraphs: basic principles of **solar** radiation, main applications, and a case ... first paragraph will introduce the basic principles of **solar energy**, highlighting the ad...

Roberto Barile in *Sustainable Development and Environmental Management (2008)*

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Chapter

Solar Energy

Enthusiasts for **solar** power need to be reminded that, through ... Sun is already our primary source of renewable **energy**. Or to put it another way **solar** photons convert naturally into chemical fuel and...1...Photo...

Claudio Vita-Finzi in *The Sun (2008)*

» [Download PDF](#) (602 KB) » [View Chapter](#)

Journal

Applied Solar Energy

Volume 43 / 2007 - Volume 48 / 2012

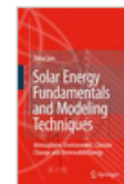


Book

Solar Energy Fundamentals and Modeling Techniques

Atmosphere, Environment, Climate Change and Renewable Energy

Zekai Şen (2008)



Type of content

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

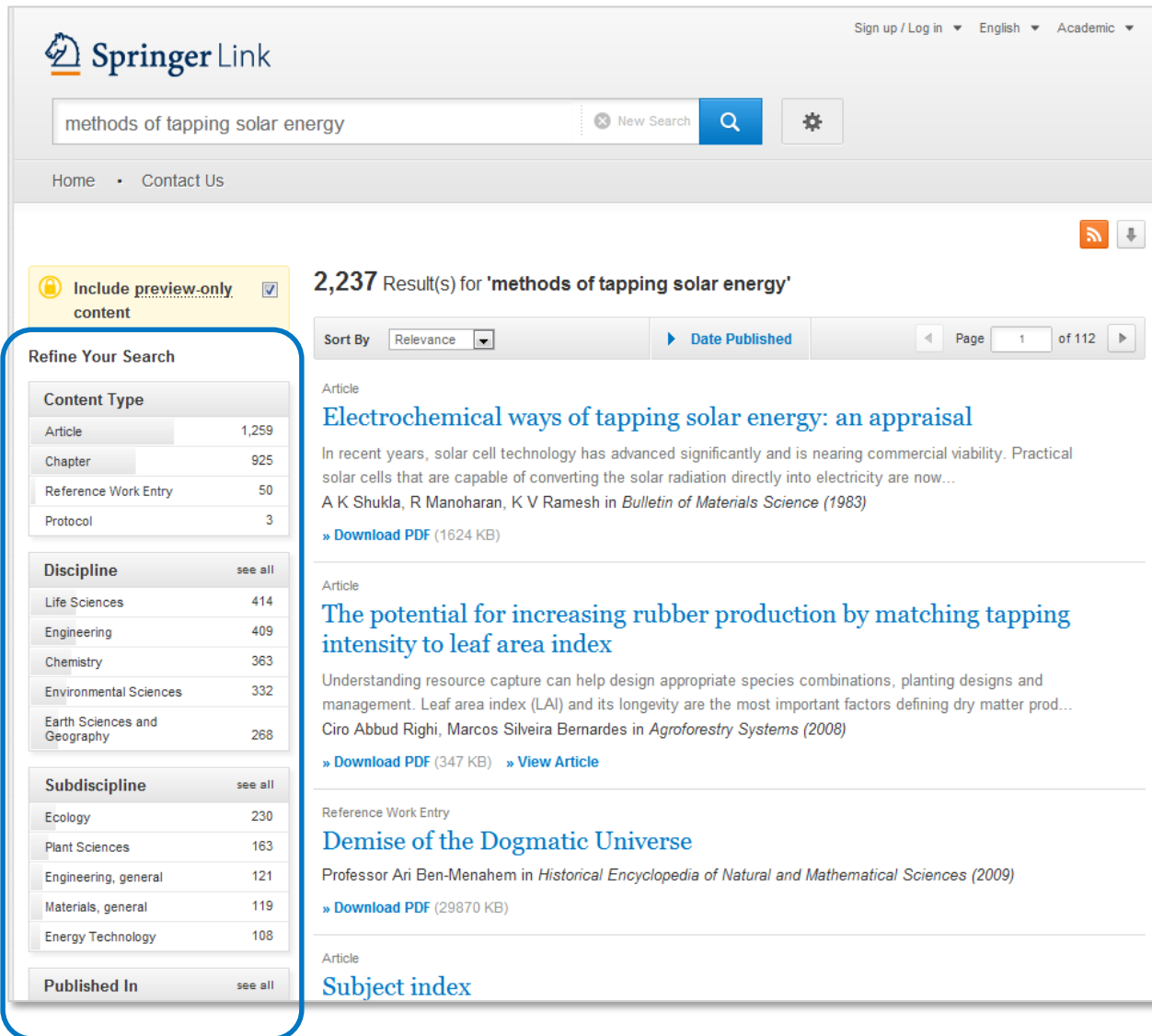
Bigger Units

- Series (of books)
- Book (of chapters or protocols)
- Journal (of articles)
- Reference Work (of reference work entries)

Smallest Units

- Chapter
- Protocol
- Article
- Reference Work Entry

Search Result Page



Springer Link

Sign up / Log in English Academic

methods of tapping solar energy

Home Contact Us

2,237 Result(s) for 'methods of tapping solar energy'

Include preview only content

Sort By Relevance Date Published Page 1 of 112

Refine Your Search

Content Type

Article	1,259
Chapter	925
Reference Work Entry	50
Protocol	3

Discipline see all

Life Sciences	414
Engineering	409
Chemistry	363
Environmental Sciences	332
Earth Sciences and Geography	268

Subdiscipline see all

Ecology	230
Plant Sciences	163
Engineering, general	121
Materials, general	119
Energy Technology	108

Published In see all

Article
Electrochemical ways of tapping solar energy: an appraisal
In recent years, solar cell technology has advanced significantly and is nearing commercial viability. Practical solar cells that are capable of converting the solar radiation directly into electricity are now...
A K Shukla, R Manoharan, K V Ramesh in *Bulletin of Materials Science* (1983)
» Download PDF (1624 KB)

Article
The potential for increasing rubber production by matching tapping intensity to leaf area index
Understanding resource capture can help design appropriate species combinations, planting designs and management. Leaf area index (LAI) and its longevity are the most important factors defining dry matter prod...
Ciro Abbud Righi, Marcos Silveira Bernardes in *Agroforestry Systems* (2008)
» Download PDF (347 KB) » View Article

Reference Work Entry
Demise of the Dogmatic Universe
Professor Ari Ben-Menahem in *Historical Encyclopedia of Natural and Mathematical Sciences* (2009)
» Download PDF (29870 KB)

Article
Subject index

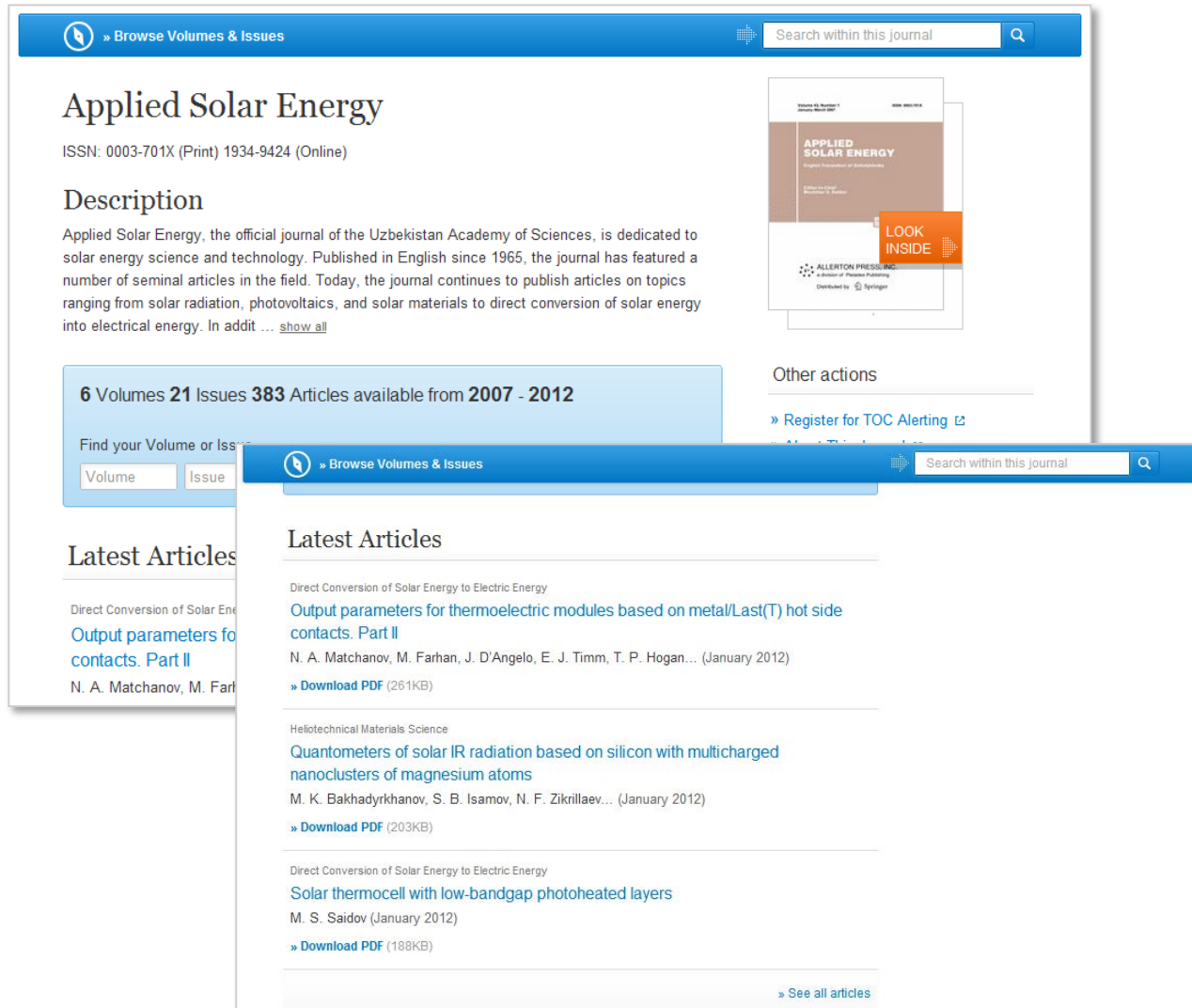
Filter Options

To the left you will find **predefined filter options** that help you to optimize your search result.

The following filter options are available:

- Content type
- Discipline
- Sub discipline
- Published in
- Language

Product Pages



» Browse Volumes & Issues

Search within this journal

Applied Solar Energy

ISSN: 0003-701X (Print) 1934-9424 (Online)

Description

Applied Solar Energy, the official journal of the Uzbekistan Academy of Sciences, is dedicated to solar energy science and technology. Published in English since 1965, the journal has featured a number of seminal articles in the field. Today, the journal continues to publish articles on topics ranging from solar radiation, photovoltaics, and solar materials to direct conversion of solar energy into electrical energy. In addit ... [show all](#)

6 Volumes 21 Issues 383 Articles available from 2007 - 2012

Find your Volume or Issue

Volume Issue

Latest Articles

Direct Conversion of Solar Energy to Electric Energy
[Output parameters for thermoelectric modules based on metal/Last\(T\) hot side contacts. Part II](#)
 N. A. Matchanov, M. Farhan, J. D'Angelo, E. J. Timm, T. P. Hogan... (January 2012)
 » [Download PDF](#) (261KB)

Helitechnical Materials Science
[Quantometers of solar IR radiation based on silicon with multicharged nanoclusters of magnesium atoms](#)
 M. K. Bakhadyrkhanov, S. B. Isamov, N. F. Zikrillaev... (January 2012)
 » [Download PDF](#) (203KB)

Direct Conversion of Solar Energy to Electric Energy
[Solar thermocell with low-bandgap photoheated layers](#)
 M. S. Saidov (January 2012)
 » [Download PDF](#) (188KB)

» See all articles

Other actions

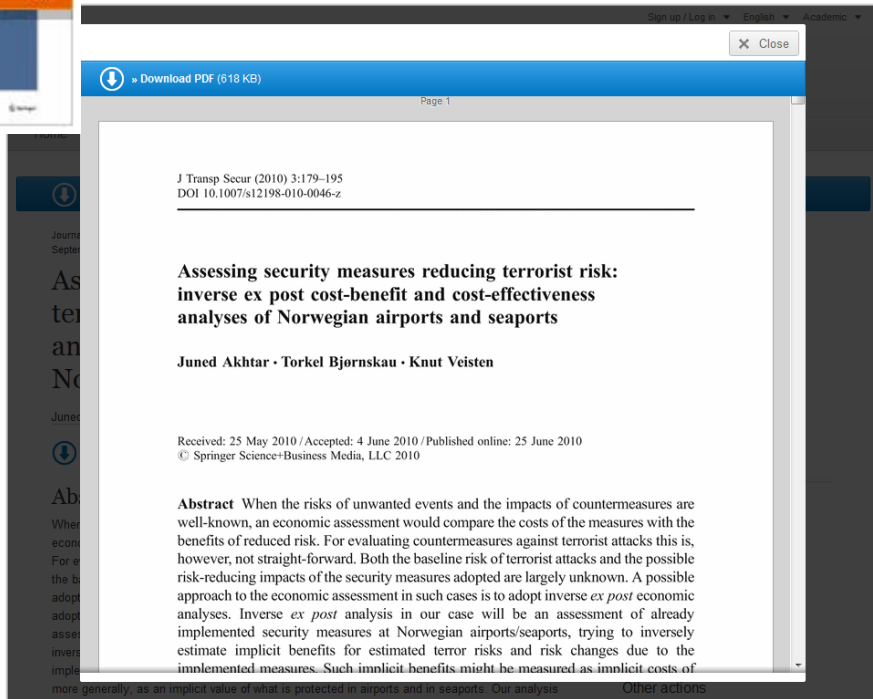
» [Register for TOC Alerting](#)

Blue bar

On top of every product page there is a blue bar which will **always be visible** even if you scroll down.

The functionality offered in this bar differs from page type to page type.

Product Pages

Download PDF (618 KB)

Page 1

J Transp Secur (2010) 3:179–195
DOI 10.1007/s12198-010-0046-z

Assessing security measures reducing terrorist risk: inverse ex post cost-benefit and cost-effectiveness analyses of Norwegian airports and seaports

Juned Akhtar · Torkel Bjørnskau · Knut Veisten

Received: 25 May 2010 / Accepted: 4 June 2010 / Published online: 25 June 2010
© Springer Science+Business Media, LLC 2010

Abstract When the risks of unwanted events and the impacts of countermeasures are well-known, an economic assessment would compare the costs of the measures with the benefits of reduced risk. For evaluating countermeasures against terrorist attacks this is, however, not straight-forward. Both the baseline risk of terrorist attacks and the possible risk-reducing impacts of the security measures adopted are largely unknown. A possible approach to the economic assessment in such cases is to adopt inverse *ex post* economic analyses. Inverse *ex post* analysis in our case will be an assessment of already implemented security measures at Norwegian airports/seaports, trying to inversely estimate implicit benefits for estimated terror risks and risk changes due to the implemented measures. Such implicit benefits might be measured as implicit costs of

more generally, as an implicit value of what is protected in airports and in seaports. Our analysis

Other actions

Look Inside

On every product page there is the option to browse the product with the so-called Look Inside function.

Recognized users can browse through the complete document.

Anonymous users will see the first 2 pages of the document.

Journal Homepage

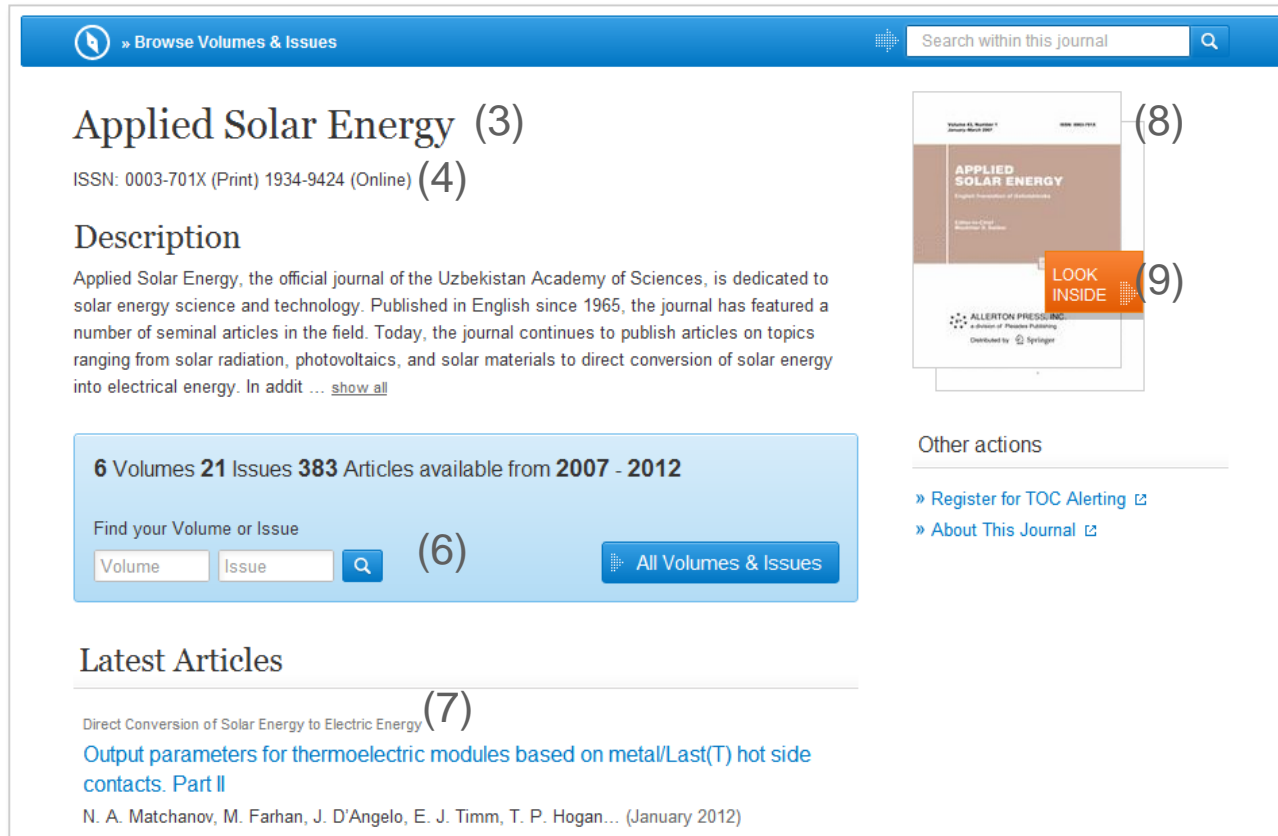
(2)

Functionality Overview

- Browse Volumes & Issues (1)
- Search within this journal (2)
- Journal Title (3)
- Journal ISSN (4)
- Journal description (5)
- Volumes & Issues Navigation (6)
- List of latest articles (7)
- Journal Cover (8)
- Look Inside (9)

(1)

(5)



The screenshot shows the journal homepage for Applied Solar Energy. At the top, there is a blue navigation bar with a home icon and the text 'Browse Volumes & Issues' (1), and a search bar with the placeholder 'Search within this journal' (2). Below the navigation bar, the journal title 'Applied Solar Energy' (3) is displayed, followed by its ISSN: 0003-701X (Print) 1934-9424 (Online) (4). A 'Description' section (5) provides details about the journal's focus on solar energy science and technology. A statistics box (6) shows '6 Volumes 21 Issues 383 Articles available from 2007 - 2012' and includes a search form for 'Volume' and 'Issue' with a magnifying glass icon (6) and an 'All Volumes & Issues' button. Below this is the 'Latest Articles' section (7), featuring a link to 'Direct Conversion of Solar Energy to Electric Energy' (7) and its authors: N. A. Matchanov, M. Farhan, J. D'Angelo, E. J. Timm, T. P. Hogan... (January 2012). On the right side, the journal cover (8) is shown with a 'LOOK INSIDE' button (9). Below the cover, there are 'Other actions' such as 'Register for TOC Alerting' and 'About This Journal'.

Journal Homepage

» Browse Volumes & Issues
Search within this journal

Applied Solar Energy

ISSN: 0003-701X (Print) 1934-9424 (Online)

Description

Applied Solar Energy, the official journal of the Uzbekistan Academy of Sciences, is dedicated to solar energy science and technology. Published in English since 1965, the journal has featured a number of seminal articles in the field. Today, the journal continues to publish articles on topics ranging from solar radiation, photovoltaics, and solar materials to direct conversion of solar energy into electrical energy. In addit ... [show all](#)


6 Volumes 21 Issues 383 Articles available from 2007 - 2012

Find your Volume or Issue

All Volumes & Issues

Latest Articles

Direct Conversion of Solar Energy to Electric Energy
[Output parameters for thermoelectric modules based on metal/Last\(T\) hot side contacts. Part II](#)
 N. A. Matchanov, M. Farhan, J. D'Angelo, E. J. Timm, T. P. Hogan... (January 2012)



Other actions

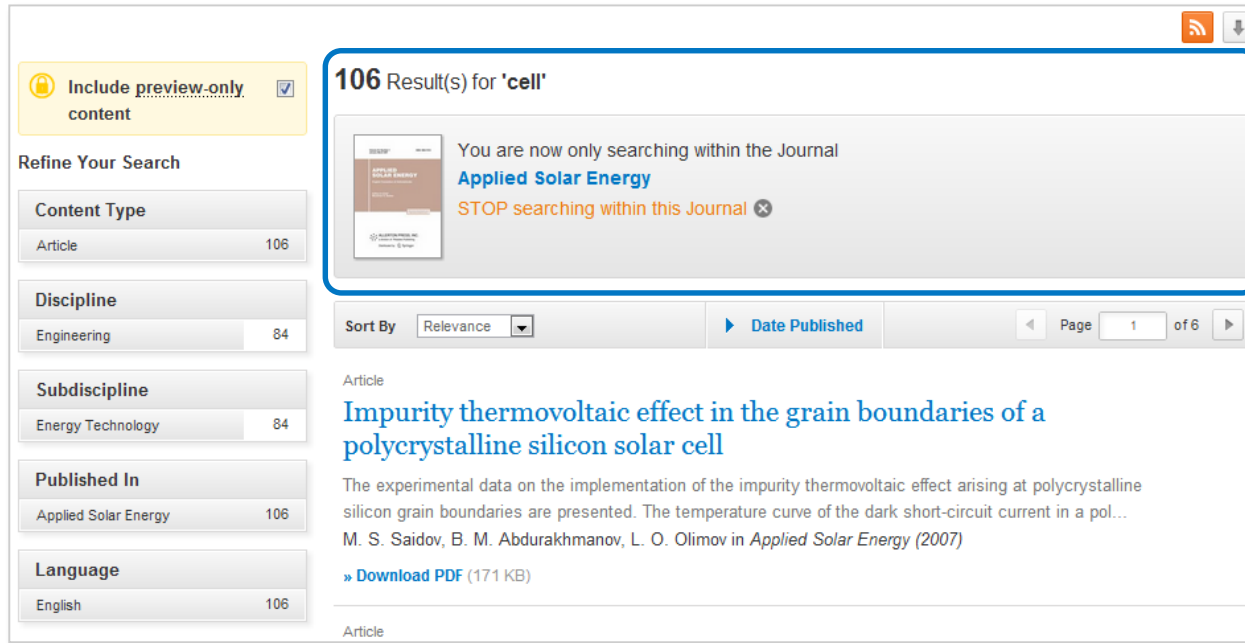
- » [Register for TOC Alerting](#)
- » [About This Journal](#)

Search within this journal content

To find relevant journal articles you may enter a search term to start a search within the content of a journal.

The results will be displayed in a search result list. You leave the environment of the journal product page.

Journal Homepage



The screenshot shows a search result page for the journal 'Applied Solar Energy'. The search term is 'cell', resulting in 106 results. The page is filtered to show only preview-only content. The search results are sorted by relevance, and the first result is an article titled 'Impurity thermovoltaic effect in the grain boundaries of a polycrystalline silicon solar cell' by M. S. Saidov, B. M. Abdurakhmanov, and L. O. Olimov, published in 'Applied Solar Energy' (2007). The article is available for download as a PDF (171 KB).

106 Result(s) for 'cell'

You are now only searching within the Journal
Applied Solar Energy
STOP searching within this Journal ✕

Sort By: Relevance | Date Published

Page 1 of 6

Article

Impurity thermovoltaic effect in the grain boundaries of a polycrystalline silicon solar cell

The experimental data on the implementation of the impurity thermovoltaic effect arising at polycrystalline silicon grain boundaries are presented. The temperature curve of the dark short-circuit current in a pol...

M. S. Saidov, B. M. Abdurakhmanov, L. O. Olimov in *Applied Solar Energy* (2007)

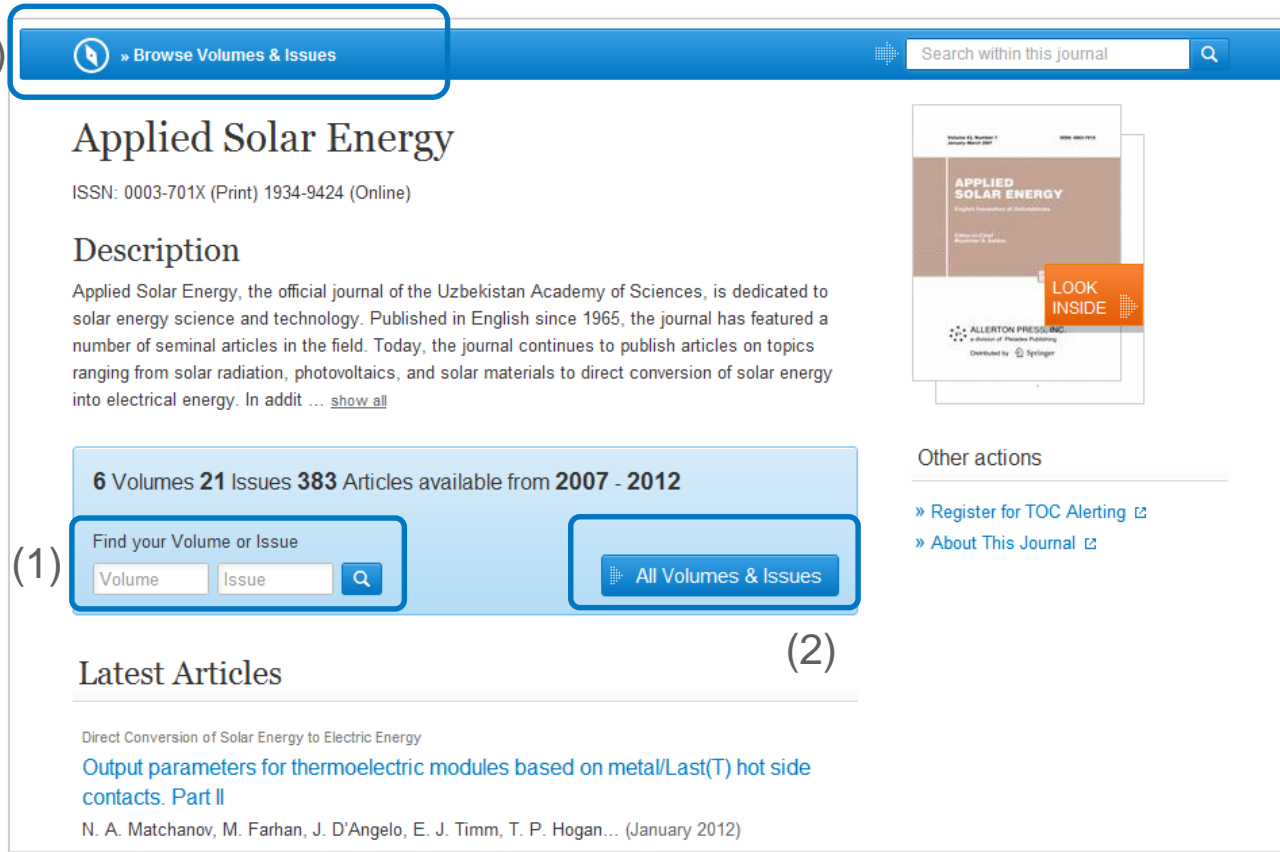
» [Download PDF](#) (171 KB)

Search result page of a keyword search within a journal

On top of the search result list you get the search term listed and the journal name.

Journal Homepage

(3)



The screenshot shows the journal homepage for Applied Solar Energy. At the top, a blue navigation bar contains a search box and a link to 'Browse Volumes & Issues' (annotated with (3)). Below the journal title, there is a description and a 'Description' section. A light blue box displays statistics: '6 Volumes 21 Issues 383 Articles available from 2007 - 2012'. Below this, a search box for 'Find your Volume or Issue' (annotated with (1)) includes 'Volume' and 'Issue' input fields and a search icon. To the right of this search box is a blue button labeled 'All Volumes & Issues' (annotated with (2)). On the right side of the page, there is a 'LOOK INSIDE' button and a section for 'Other actions' with links to 'Register for TOC Alerting' and 'About This Journal'. At the bottom, there is a 'Latest Articles' section with a link to 'Output parameters for thermoelectric modules based on metal/Last(T) hot side contacts. Part II' by N. A. Matchanov et al. (January 2012).

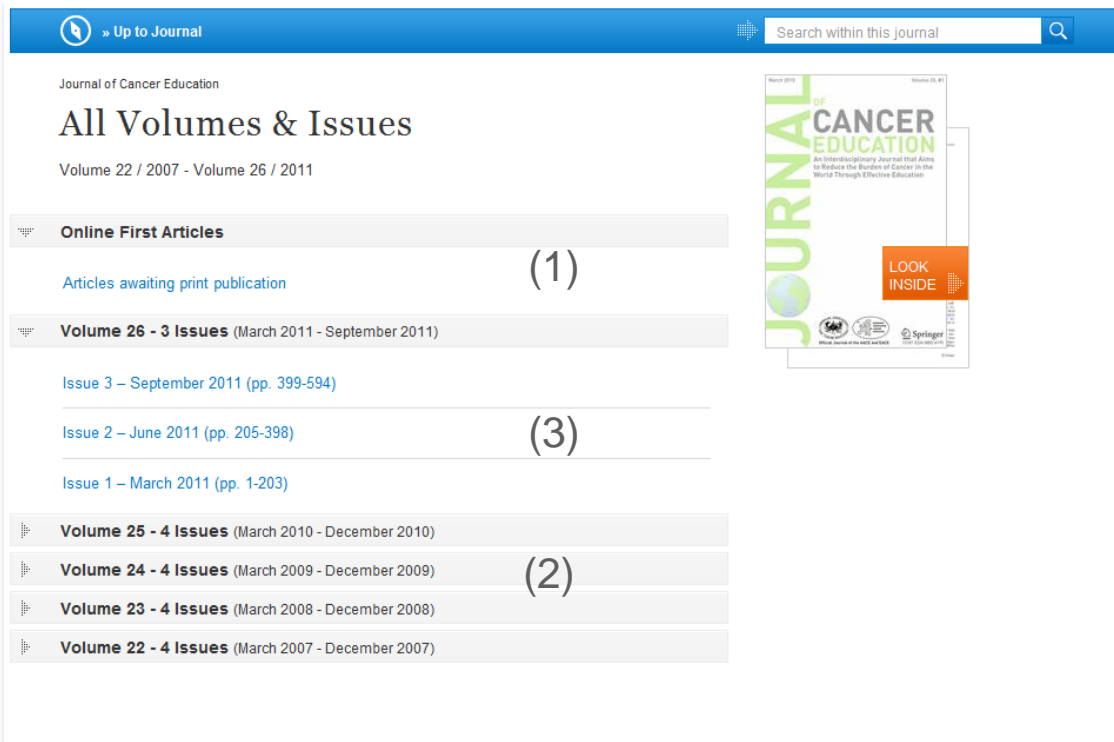
Volumes & Issues Nav

On the journal homepage below the journal description you find a blue box that allows you to navigate to individual volumes and issues (1).

If you like to have an overview on all volumes and issues press the “All Volumes and Issues” button within that blue box (2).

You can also use the link “Browse Volumes & Issues” within the blue bar on top of the page (3).

Journal Homepage



The screenshot shows the homepage for the Journal of Cancer Education. At the top, there is a blue navigation bar with a home icon and the text "Up to Journal", and a search bar labeled "Search within this journal". Below the navigation bar, the journal title "Journal of Cancer Education" is displayed, followed by the main heading "All Volumes & Issues" and the range "Volume 22 / 2007 - Volume 26 / 2011".

The content is organized into several sections:

- Online First Articles:** A grey bar containing the text "Articles awaiting print publication" and a large number "(1)".
- Volume 26 - 3 Issues:** A grey bar for the current volume, containing three links: "Issue 3 - September 2011 (pp. 399-594)", "Issue 2 - June 2011 (pp. 205-398)", and "Issue 1 - March 2011 (pp. 1-203)". A large number "(3)" is positioned to the right of these links.
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Feasibility of solar tents for inactivating (5) weedy plant propagative material (5)


James J. Stapleton (6)

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Solar tents, which are safe, inexpensive, and easy to construct, can be used to inactivate unwanted weed plant propagative materials, onsite. During two field trials in the San Joaquin Valley of California, from Sept 2 to 7, 2010, solar tents produced diurnal temperature maxima within closed sample bags of 63.5–76.7°C. The mean maximum temperatures within the sample bags were 32.9–42.1°C higher than those of ambient air, and temperatures ≥60°C were maintained for 3.2–6.0 h each afternoon during the field trials. Rhizome segments, excavated and excised from a local infestation of the important weed pest *Sorghum halepense* (johnsongrass), were used to evaluate effects of the treatment on weedy plant tissues with vegetative propagation capability. The rhizomes were completely destroyed following confinement within tents for 3 days. Construction suggestions for building onsite solar tents are presented, with emphasis on use of locally available materials. In sufficiently warm climatic areas and weather conditions, solar tents can provide a useful alternative for inactivating weed propagative materials. Potential uses include destruction of quarantined, propagative materials following regulatory roguing interventions in remote locations, or routine roguing of limited scale areas to remove invasive weeds.

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Journal of Pest Science
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10.1007/s10340-011-0412-z

Original Paper

Feasibility of solar tents for inactivating weedy plant propagative material

James J. Stapleton¹

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James J. Stapleton
Email: jms@uct.ac.edu

Received: 21 July 2011 Accepted: 19 December 2011 Published online: 3 January 2012

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Abstract
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Keywords Appropriate technology · Ecological restoration · Solar energy · Solarization · Weeds · Wildland

Introduction
Passive solar heating of moist soil beneath clear plastic film is used as a non-chemical alternative to soil fumigation in cultivated agriculture (Stapleton 2000). In addition, it has shown promise for use in wildland and other ecological restoration efforts (Banbridge 1999; Moyes et al. 2005; Stapleton and Jett 2006; Marushia and Allen 2011). Weed seed inactivation is one of the most beneficial results obtained from heating soil. A factor limiting effectiveness of soil heating in open fields is “top-down” efficacy resulting from the solar energy source overhead. This gives maximal pesticidal efficacy in uppermost soil layers, which decreases with increasing soil depth (Rubin and Benjamin 1984). An improved solarization, as opposed to open field treatment, was developed as a method for application of solar energy to smaller volumes of soil, such as used in horticultural

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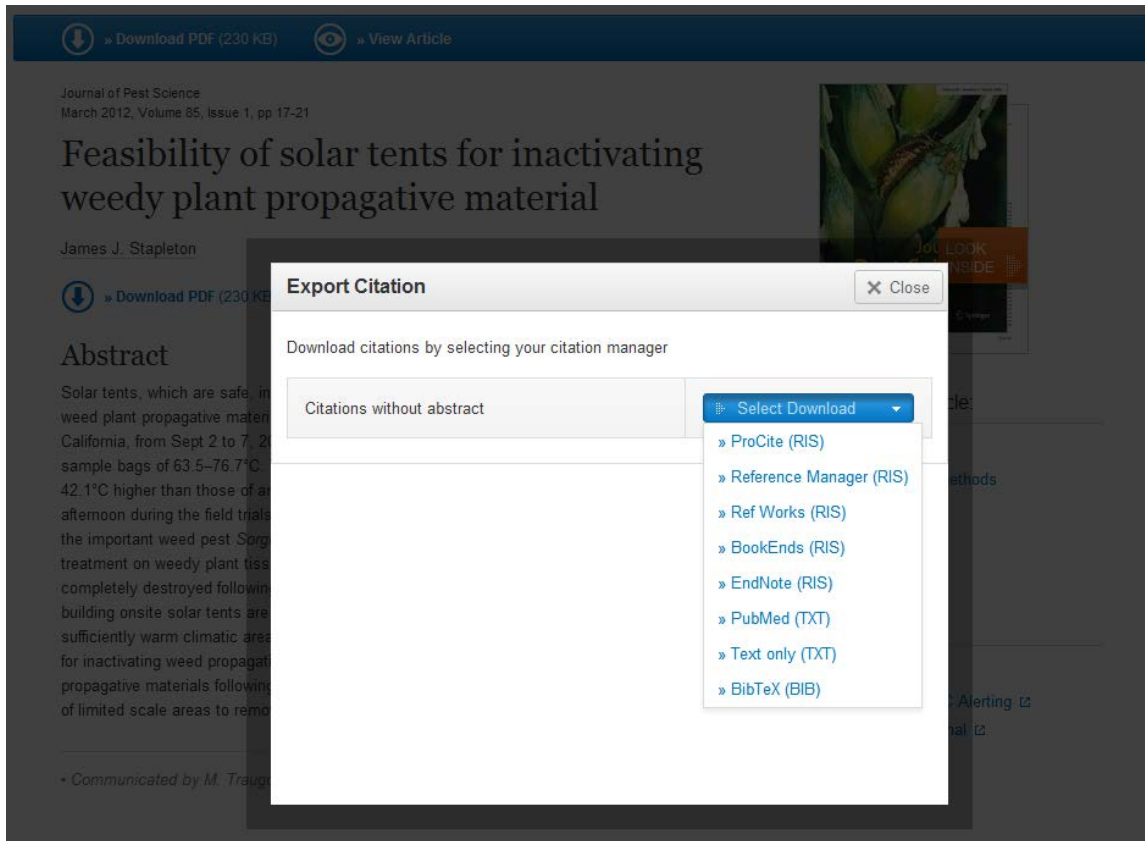
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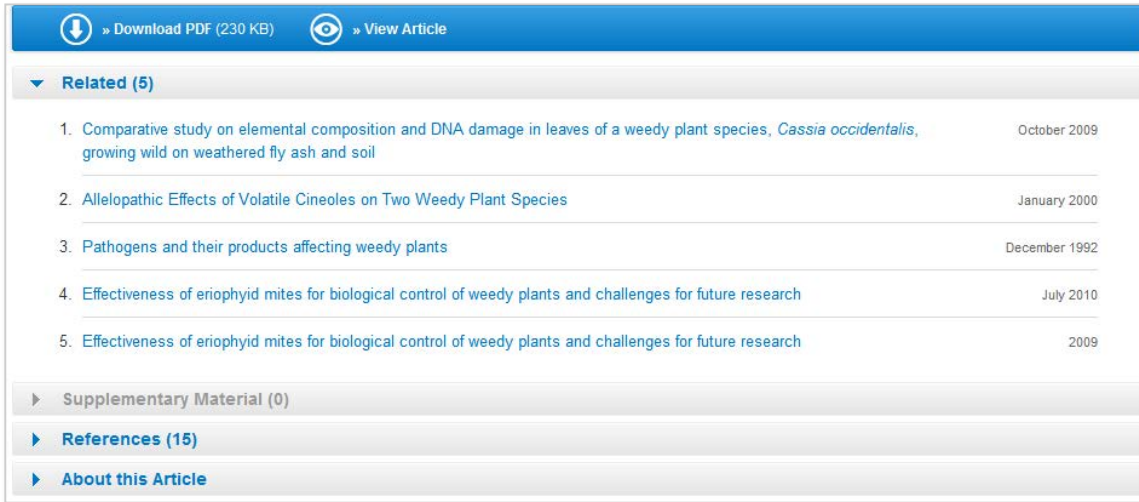
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2. Ben-Yephet Y, Stapleton JJ, Wakeman RJ, DeVay JE (1987) Comparative effects of soil solarization with single and double layers of polyethylene film on survival of *Fusarium oxysporum* f. sp. *vasinfectum*. *Phytoparasitica* 15:181–185 [» CrossRef](#)
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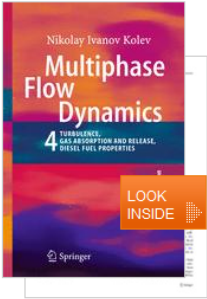
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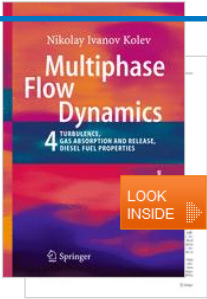
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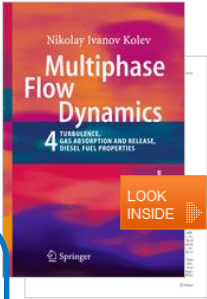
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New Horizons of Parallel and Distributed Computing
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Recent Developments in Vector Optimization
Vector Optimization Volume 1, 2012, pp 1-27

(1) Vector Optimization Problems and Their Solution Concepts

Gabriele Eichfelder, Johannes Jahn

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Abstract

In vector optimization one investigates optimal elements of a set in a pre-ordered space. The problem of determining these optimal elements, if they exist at all, is called a vector optimization problem. Problems of this type can be found not only in mathematics but also in engineering and economics. There, these problems are also called multiobjective (or multi criteria or Pareto) optimization problems or one speaks of multi criteria decision making. Vector optimization problems arise, for example, in functional analysis (the Hahn–Banach theorem, the lemma of Bishop–Phelps, Ekeland’s variational principle), multiobjective programming, multi-criteria decision making, statistics (Bayes solutions, theory of tests, minimal covariance matrices), approximation theory (location theory, simultaneous approximation, solution of boundary value problems) and cooperative game theory (cooperative n player differential games and, as a special case, optimal control problems). In the last decades vector optimization has been extended to problems with set-valued maps. This field, called set optimization, has important applications to variational inequalities and optimization problems with multivalued data.

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- Optimality Concepts in Set Optimization
- Existence Results in Vector Optimization
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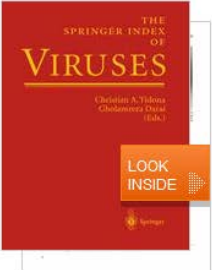
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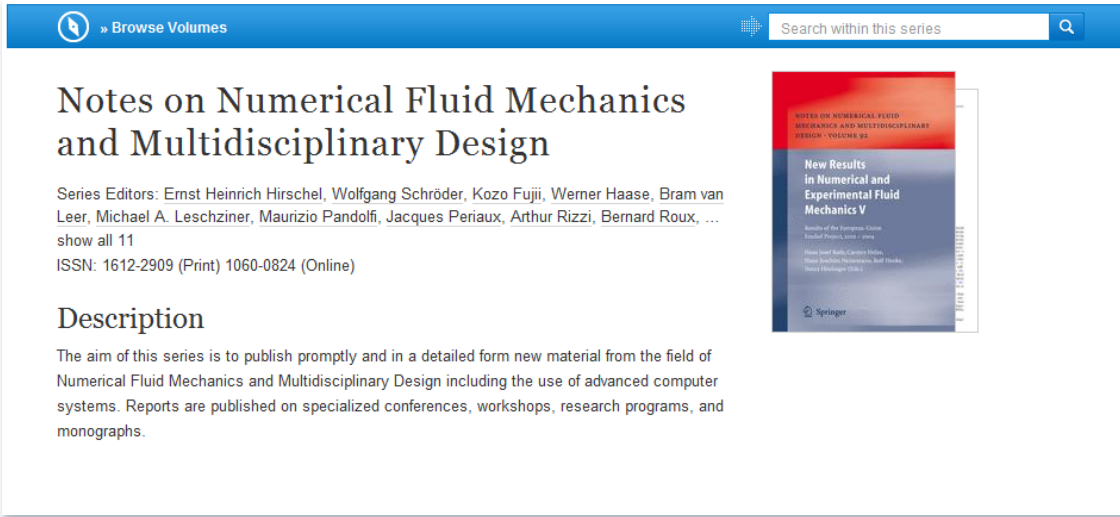
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The diamine agmatine (AGM), exhibiting two positive charges at physiological pH, is transported into rat brain mitochondria (RBM) by an electrophoretic mechanism, requiring high membrane potential values and exhibiting a marked non-ohmic force-flux relationship. The mechanism of this transport apparently resembles that observed in rat liver mitochondria (RLM), but there are several characteristics that strongly suggest the presence of a different transporter of agmatine in RBM. In this type of mitochondria, the extent of initial binding and total accumulation is higher and lower, respectively, than that in liver; saturation kinetics and the flux-voltage relationship also exhibit different trends, whereas idazoxan and putrescine, ineffective in RLM, act as inhibitors. The characteristics of agmatine uptake in RBM lead to the conclusion that its transporter is a channel with two asymmetric energy barriers, showing some characteristics similar to those of the imidazoline receptor I2 and the sharing with the polyamine transporter.

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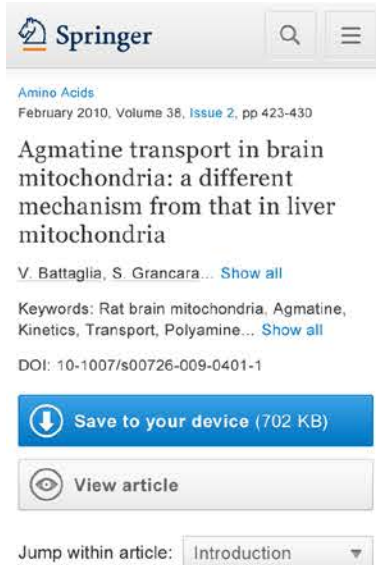
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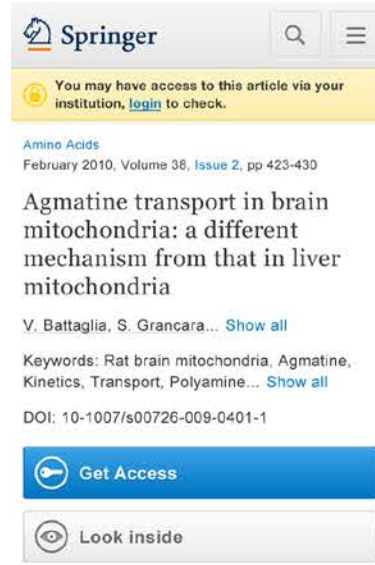
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