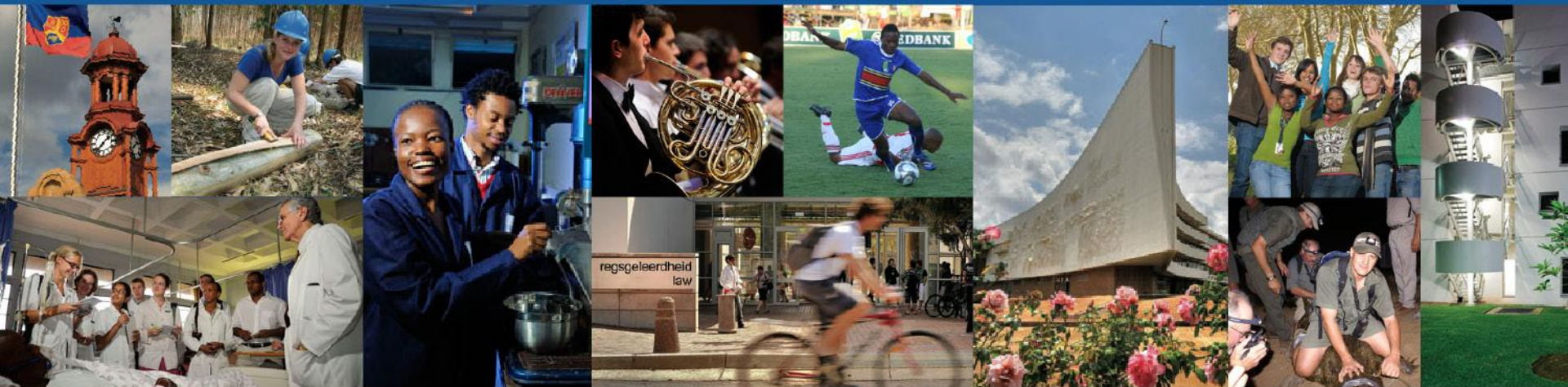


# Index to pass database evaluation: making the connection

by

## Sunette Steynberg

ASAIB Conference, 10 May 2012



UNIVERSITEIT VAN PRETORIA  
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# Overview

- Who is the indexer?
- Who are the indexing for?
- The evaluation
- The ideal database
- Two examples



# Who are the indexers?

- “Indexing is not a neutral and objective representation of a document’s subject matter but the representation of an interpretation of a document for future use.”
- “The creation of the subject matter is based on the indexer’s social and cultural context”

Mai, J E 2001, “Semiotics and indexing: an analysis of the subject indexing process”, *Journal of documentation*, vol. 57, no. 5, pp. 591-622.



# Who are the indexers? (cont.)

- Retrieval effectiveness
- Performance of manually assigned descriptors vs. automatic indexing scheme.
- modern indexing and abstracting services (such as MEDLINE and CAS) make use of human subject analysis and indexing.

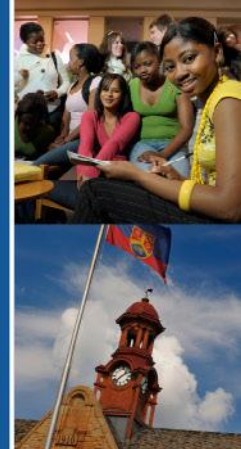
Savoy, J 2005, 'Bibliographic database access using free-text and controlled vocabulary: an evaluation', *Information Processing and Management*, vol. 41, pp. 873–890.



# Who are the indexing for?

- **The Net Generation**
  - familiar and comfortable with computer and digital technologies
  - dependent on and prefer Google
  - find library resources difficult to figure out
  - want speedy answers and full gratification immediately

Lippincott, J K 2005, Generation students and libraries, *Educause*, March/Apr., pp. 56-66.



# Who are the indexing for? (Cont.)

- **OCLC reports 2005 & 2010**
  - start information searches with search engines
  - satisfied with searches
  - self serve
  - do not differentiate
  - Use of 'Ask an expert' sites increased over past 5 years



# The evaluation

- Content covered
- Appearance and product structure
- Full text options
- Display, save, print and export functions
- Help facility



# The ideal database

- Easy to use – no training needed
- One stop shop (all databases on one search engine)
- Searches synonyms, English and US spellings
- Link directly to pdf
- Export directly to the reference management software tool of the user's choice





# The effect of antibiotic residues on dairy products



Explore  
References

Explore  
Substances

Explore  
Reactions

Saved Answer Sets  
KMP Alert Results  
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## Explore References

Research Topic

Research Topic

The effect of antibiotic residues on dairy products

Search

Author Name  
Company Name  
Document Identifier  
Journal  
Patent  
Tags

Examples:  
*The effect of antibiotic residues on dairy products*  
*Photocyanation of aromatic compounds*

Publication Year(s)

Examples: 1995, 1995-1999, 1995-, -1995

Document Type(s)

- |   |                                       |                                   |
|---|---------------------------------------|-----------------------------------|
| <input type="checkbox"/> Biography      | <input type="checkbox"/> Dissertation | <input type="checkbox"/> Patent   |
| <input type="checkbox"/> Book           | <input type="checkbox"/> Editorial    | <input type="checkbox"/> Preprint |
| <input type="checkbox"/> Clinical Trial | <input type="checkbox"/> Historical   | <input type="checkbox"/> Report   |
| <input type="checkbox"/> Commentary     | <input type="checkbox"/> Journal      | <input type="checkbox"/> Review   |
| <input type="checkbox"/> Conference     | <input type="checkbox"/> Letter       |                                   |

Language(s)

- |                                  |                                   |                                  |
|----------------------------------|-----------------------------------|----------------------------------|
| <input type="checkbox"/> Chinese | <input type="checkbox"/> German   | <input type="checkbox"/> Polish  |
| <input type="checkbox"/> English | <input type="checkbox"/> Italian  | <input type="checkbox"/> Russian |
| <input type="checkbox"/> French  | <input type="checkbox"/> Japanese | <input type="checkbox"/> Spanish |

### Saved Answer Sets

Octamethylsilsequioxane  
Viscosity of gelatin and cement  
Concrete or cement and gelatin  
and foam  
(Concrete OR cement) AND  
gelatin  
Cement and gelatin  
Concrete AND Gelatin (All)  
methyl containing  
CMNBA isomers  
SiN as Containment material  
SILOXANE  
Autosaved Reference Set

View All

Import

### Keep Me Posted Results

No profiles exist



# Search results



Explore  
References

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KMP Alert Results  
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What's New

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Add KMP Alert Research Topic "The effect of antibiotic resid..."

## Research Topic Candidates

4 Topics 0 Selected

Select All Deselect All

### Research Topic Candidates

### References

<input type="checkbox"/>	128 references were found containing the two concepts "antibiotic residues" and "dairy products" closely associated with one another.	128
<input type="checkbox"/>	260 references were found where the two concepts "antibiotic residues" and "dairy products" were present anywhere in the reference.	260
<input type="checkbox"/>	5834 references were found containing the concept "antibiotic residues".	5834
<input type="checkbox"/>	388905 references were found containing the concept "dairy products".	388905

Get References

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03:28 PM  
2012/05/03



# Limit to reaction roles

Substances Get References Get Reactions Tools Send to SciPlanner

1 Substance 0 Selected

Save Print Export

Select All Deselect All Sort by: CAS Registry Number

Answers per Page [15]

View:

1. Substance Detail  
7782-41-4

~58082



F<sub>2</sub>  
Fluorine

Experimental Properties

## Get Reactions

### Limit results by reaction role:

- Product
- Reactant
- Reagent
- Reactant or reagent
- Catalyst
- Solvent
- Any role

Get Cancel

Analysis Refine

Analyze by:

Substance Role

Click bar to view only those substances within the current answer set

Analytical Study	1
Biological Study	1
Combinatorial Study	1
Formation, Nonpreparative	1
Miscellaneous	1
Occurrence	1
Preparation	1
Process	1
Properties	1
Prophetic in Patents	1

# Save, print, export

References Get Substances Get Reactions Get Related Tools Send to SciPlanner

128 References 0 Selected Save Print Export

Select All Deselect All Sort by: Accession Number Answers per Page [20] 1 2 3 4 5 6 7

Display:

- 1. Disposable and integrated amperometric immunosensor for direct determination of sulfonamide antibiotics in milk**    
By Conzuelo, Felipe; Gamella, Maria; Campuzano, Susana; Pinacho, Daniel G.; Reviejo, A. Julio; Marco, M. Pilar; Pingarron, Jose M.  
From Biosensors & Bioelectronics, Ahead of Print. | Language: English, Database: CAPLUS  
The prepn. and performance of a disposable amperometric immunosensor, based on the use of a selective capture antibody and screen-printed carbon electrodes (SPCEs), for the specific detection and quantification of sulfonamide **residues** in **milk** is reported. The antibody was covalently immobilized onto a 4-aminobenzoic acid (4-ABA) film grafted on the disposable electrode, and a direct competitive immunoassay using a tracer with horseradish peroxidase (HRP) for the enzymic labeling was performed. The amperometric response measured at -0.2 V vs the silver pseudo-ref. electrode of the SPCE upon t...
- 2. The inhibitors in milk**    
By Zareba, Dorota; Kwietniewska, Katarzyna; Ziarno, Malgorzata  
From Przemysl Spozywczy (2011), 65(10), 22-25. | Language: Polish, Database: CAPLUS  
Inhibitors are the native substances, contaminants or adulterants, the aim of which is to inhibit the biochem. processes occurring between **milk** components or those induced by microorganisms' activity. The necessity of monitoring these substances results from their direct or indirect influence on the consumer's health safety. The presence of native inhibitors helps to control the processes efficiency, warranting the safety of the final **product**. The control of the **residues'** level after **antibiotic** therapy, cleaning and disinfection of the **milking** system or substances, adulterating **milk** quality,...
- 3. Signal Derivatization for HPLC Analysis of Fluoroquinolone Antibiotic Residues in Milk Products**    
By Phonkeng, Nithachcha; Burakham, Rodjana  
From Chromatographia (2012), 75(5-6), 233-239. | Language: English, Database: CAPLUS  
A simple signal derivatization based on math. derivatization was demonstrated to overcome the resolu. problem in liq. chromatog. sepn. of fluoroquinolone **antibiotics**. A reversed-phase Symmetry C18 column with gradient mobile phase of acetonitrile and formic acid was used for sepn. The studied fluoroquinolones were detected using a fluorescence detector at excitation and emission wavelengths of 280 and 450 nm, resp. The chromatog. resolu. was improved after plotting the 1st-deriv. chromatogram without any further optimization of the exptl. conditions. **Milk** samples were treated by preliminar...
- 4. Aptasensor for ampicillin using gold nanoparticle based dual fluorescence-colorimetric methods**    
By Song, Kyung-Mi; Jeong, Euiyoung; Jeon, Weejeong; Cho, Minseon; Ban, Changill  
From Analytical and Bioanalytical Chemistry (2012), 402(6), 2153-2161. | Language: English, Database: CAPLUS  
A gold nanoparticle based dual fluorescence-colorimetric method was developed as an aptasensor to detect ampicillin using its single-stranded DNA (ssDNA) aptamer, which was discovered by a magnetic bead-based SELEX technique. The selected aptamers, AMP4 (5'-CACGGCATGGTGGGCGTCGTG-3'), AMP17 (5'-CGCGGGCGTGTATACGG-3') and AMP18 (5'-TTAGTTGGGGTTCAGTTGG-3') were confirmed to have high sensitivity and specificity to ampicillin (Kd AMP7 =

Analysis Refine

Analyze by:

CA Concept Heading

*Click bar to view only those references within the current answer set*

Antibiotics	61
Milk	39
Milk analysis	36
Dairy products	30
Food contamination	29
Food analysis	20
Cheese	10
Meat	10
Milk preparations	8
HPLC	7

[Show More](#)

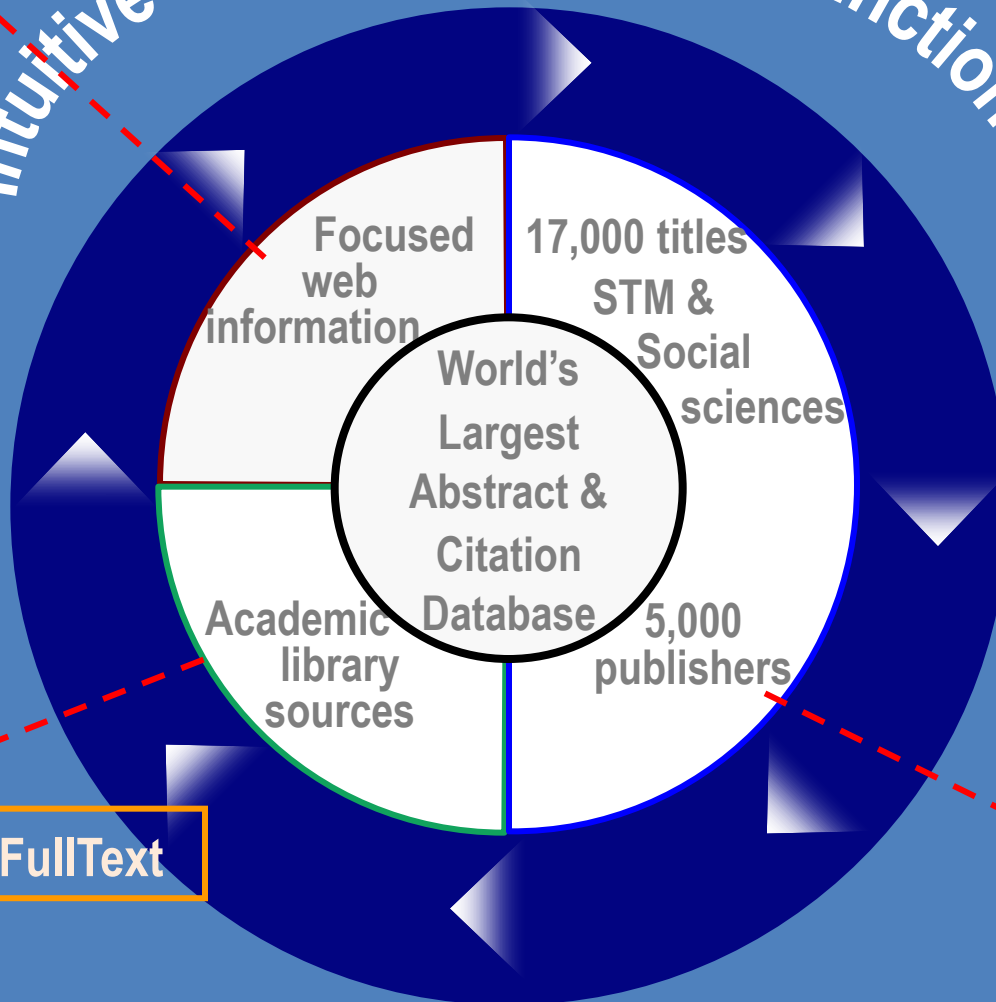
**Categorize**

More detailed analysis based on CAS

# What is Scopus?

386 million scholarly  
Web items, E-prints,  
theses, dissertations,  
patents

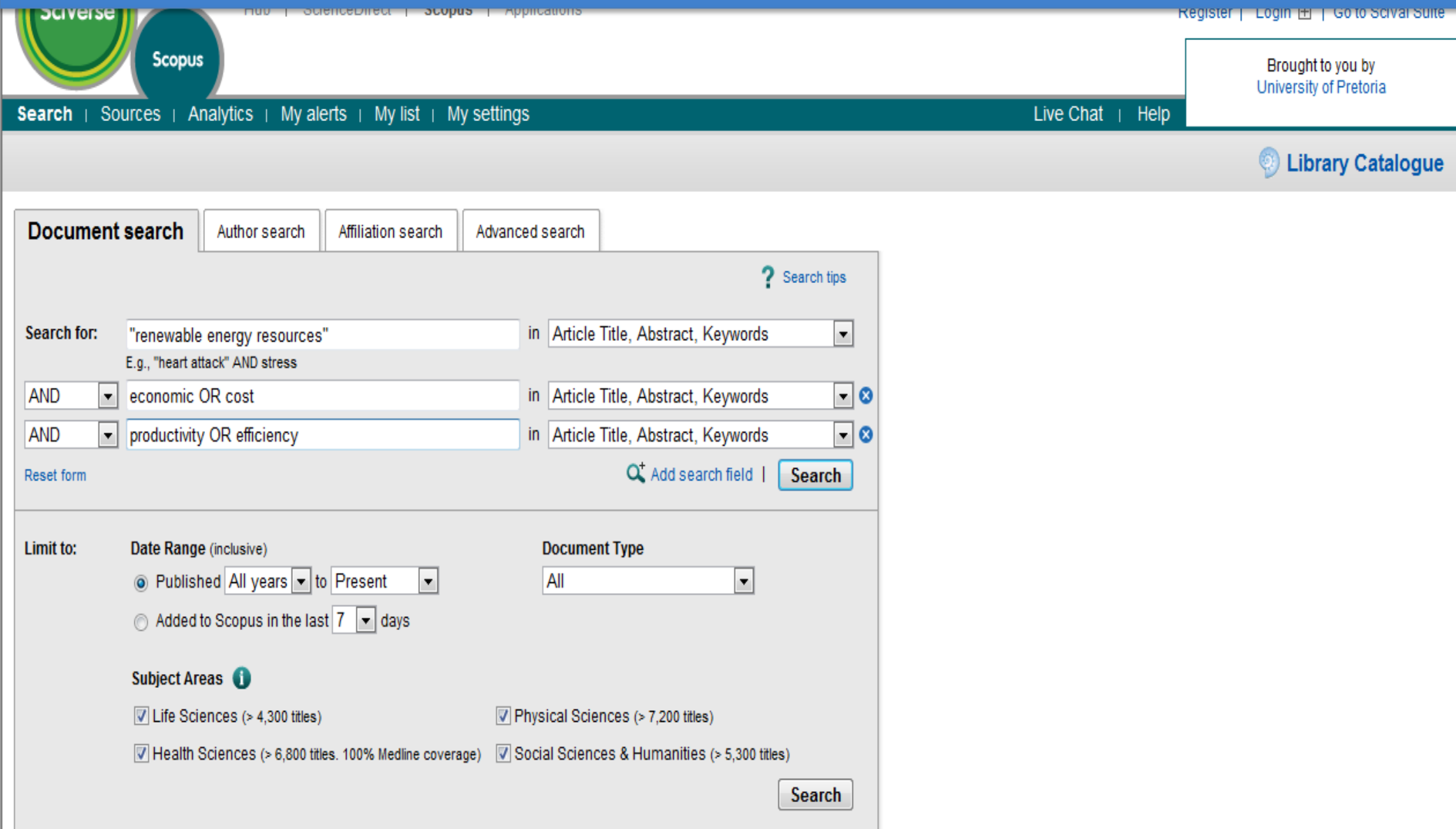
Intuitive search and browse functionality



Fastest route to FullText

15% Elsevier sources  
85% other publishers

# Compare different renewable energy resources as far as commercial viability and productivity is concerned.



The screenshot shows the Scopus search interface. At the top, there are navigation links for 'Home', 'ScopusDirect', 'Scopus', and 'Applications'. On the right, there are links for 'Register', 'Login', and 'Go to Scival Suite'. A banner on the right says 'Brought to you by University of Pretoria'. Below the navigation is a dark green bar with 'Search | Sources | Analytics | My alerts | My list | My settings' on the left and 'Live Chat | Help' on the right. A 'Library Catalogue' link is also visible. The main search area has tabs for 'Document search', 'Author search', 'Affiliation search', and 'Advanced search'. The 'Document search' tab is active. It contains a search form with the following fields: 'Search for:' with the text '"renewable energy resources"', 'in' with a dropdown menu showing 'Article Title, Abstract, Keywords', and a subtext 'E.g., "heart attack" AND stress'. Below this are two more search fields: 'AND' with a dropdown, 'economic OR cost', 'in' with a dropdown menu showing 'Article Title, Abstract, Keywords', and a close button 'x'. The second field is 'AND' with a dropdown, 'productivity OR efficiency', 'in' with a dropdown menu showing 'Article Title, Abstract, Keywords', and a close button 'x'. There is a 'Reset form' link and an 'Add search field' button. A 'Search' button is at the bottom right of the search form. Below the search form is a 'Limit to:' section with 'Date Range (inclusive)' and 'Document Type'. The 'Date Range' section has two radio buttons: 'Published' (selected) with 'All years' to 'Present' dropdowns, and 'Added to Scopus in the last' with a '7' days dropdown. The 'Document Type' dropdown is set to 'All'. Below this is a 'Subject Areas' section with an information icon and four checked checkboxes: 'Life Sciences (> 4,300 titles)', 'Physical Sciences (> 7,200 titles)', 'Health Sciences (> 6,800 titles. 100% Medline coverage)', and 'Social Sciences & Humanities (> 5,300 titles)'. A 'Search' button is at the bottom right of the limit to section.

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Search tips

Search for: "renewable energy resources" in Article Title, Abstract, Keywords  
E.g., "heart attack" AND stress

AND economic OR cost in Article Title, Abstract, Keywords

AND productivity OR efficiency in Article Title, Abstract, Keywords

Reset form | Add search field | Search

Limit to:

Date Range (inclusive)

Published All years to Present

Added to Scopus in the last 7 days

Document Type: All

Subject Areas

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Health Sciences (> 6,800 titles. 100% Medline coverage)  Social Sciences & Humanities (> 5,300 titles)

Search

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2012/02/27

# Narrowing the search

Scopus: 1,207

More...

Web

Patents

Your query: (TITLE-ABS-KEY("renewable energy resources") AND TITLE-ABS-KEY(economic OR cost) AND TITLE-ABS-KEY(productivity OR efficiency))

Analyze results | Edit | Save | Set alert | Set feed | View search history

Document results: 1,207 | Show all abstracts

Go to page: 1 of 61 Go | Next >

Search within results

Search

Refine results

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Year

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- 2011 (85) >
- 2010 (159) >
- 2009 (164) >
- 2008 (155) >

View more | View fewer

Author Name

- Kaygusuz, K. (7) >
- Iniyen, S. (6) >
- Haas, R. (5) >
- Barin, A. (5) >
- Magnago, K.F. (5) >

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  - Date (Oldest)
  - Citations
  - Relevance
  - First Author (A-Z)
  - First Author (Z-A)
  - Source Title (A-Z)

	Document title	Author(s)	Date	Source title	
1	<a href="#">Integrating renewable energy technologies to support building trigeneration - A multi-criteria analysis</a>	Chua, K.J., Yang, W.M., Wong, T.Z., Ho, C.A.	2012	<i>Renewable Energy</i> 42 (1), pp. 1-10	31
	<a href="#">View at publisher</a>   <a href="#">SFX</a>   <a href="#">Show abstract</a>   <a href="#">Related documents</a>				
2	<a href="#">End-use energy savings and district heating expansion in a local renewable energy system - A short-term perspective</a>	Sperling, K., Möller, B.	2012	<i>Applied Energy</i> 92, pp. 831-842	0
	<a href="#">View at publisher</a>   <a href="#">SFX</a>   <a href="#">Show abstract</a>   <a href="#">Related documents</a>				
3	<a href="#">Renewable energy policy in Turkey with the new legal regulations</a>	Tükenmez, M., Demireli, E.	2012	<i>Renewable Energy</i> 39 (1), pp. 1-9	0
	<a href="#">View at publisher</a>   <a href="#">SFX</a>   <a href="#">Show abstract</a>   <a href="#">Related documents</a>				
4	<a href="#">The Jevons effect and the consumption of energy in the European union   [Paradoks Jevons'a a konsumpcja energii w unii Europejskiej]</a>	Pieńkowski, D.	2012	<i>Problemy Ekorozwoju</i> 7 (1), pp. 105-116	0
	<a href="#">SFX</a>   <a href="#">Show abstract</a>   <a href="#">Related documents</a>				
5	<a href="#">The electric vehicles as a mean to reduce CO 2 emissions and energy costs in isolated regions. The São Miguel (Azores) case study</a>	Camus, C., Farias, T.	2012	<i>Energy Policy</i> Article in Press	0
	<a href="#">View at publisher</a>   <a href="#">SFX</a>   <a href="#">Show abstract</a>				
6	<a href="#">Online voltage security assessment considering comfort-constrained demand response control of distributed heat pump systems</a>	Wang, D., Parkinson, S., Miao, W., Jia, H., Crawford, C., Djilali, N.	2012	<i>Applied Energy</i> Article in Press	0

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# Refining options

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Subject Area

- Energy (680) >
- Engineering (461) >
- Environmental Science (275) >
- Chemical Engineering (113) >
- Materials Science (85) >

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Document Type

- Article (614) >
- Conference Paper (418) >
- Review (133) >
- Short Survey (17) >
- Conference Review (8) >

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Source Title

Keyword

- Renewable energy resources (1,131) >
- Energy efficiency (471) >
- Energy policy (227) >
- Energy utilization (181) >
- Renewable energies (167) >

View more | View fewer

Affiliation

Country

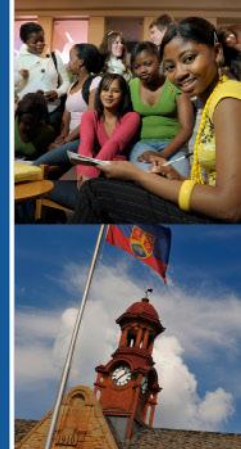
Source Type

6	<b>Integrating renewable energy technologies to support building trigeneration - A</b>	Chua, K.J., Yang, W.M., Wong, T.Z., Ho, C.A.	2012	<i>Renewable Energy</i> 41 , pp. 358-367	0
View at publisher   SFX   Show abstract   Related documents					
7	<b>The electric vehicles as a mean to reduce CO 2 emissions and energy costs in isolated regions. The São Miguel (Azores) case study</b>	Camus, C., Farias, T.	2012	<i>Energy Policy</i> 43 , pp. 153-165	0
View at publisher   SFX   Show abstract   Related documents					
8	<b>A comparative study of hybrid diesel solar PV-wind power systems in rural areas in the Sultanate of Oman</b>	Bouzuenda, M.	2012	<i>International Journal of Sustainable Energy</i> 31 (2) , pp. 95-106	0
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9	<b>End-use energy savings and district heating expansion in a local renewable energy system - A short-term perspective</b>	Sperling, K., Möller, B.	2012	<i>Applied Energy</i> 92 , pp. 831-842	2
View at publisher   SFX   Show abstract   Related documents					
10	<b>Production hall and inventory shade lighting by solar energy system and economical lighting (LEDs)</b>	Jassim, A.K., Abood, F.K.	2012	<i>Energy Procedia</i> 14 , pp. 1811-1818	0
View at publisher   SFX   Show abstract   Related documents					
11	<b>The techno-economic efficiency of the CHP plant using simultaneously renewable energy resources and classic fuels</b>	Voicu, P., Athanavici, V.	2012	<i>UPB Scientific Bulletin, Series C: Electrical Engineering</i> 74 (1) , pp. 109-116	0
View at publisher   SFX   Show abstract   Related documents					
12	<b>On the link between economic and environmental performance of Swiss dairy farms of the alpine area</b>	Jan, P., Dux, D., Lips, M., Alig, M., Dumondel, M.	2012	<i>International Journal of Life Cycle Assessment</i> , pp. 1-14 Article in Press	0
View at publisher   SFX   Show abstract   Related documents					
13	<b>Renewable energy policy in Turkey with the new legal regulations</b>	Tükenmez, M., Demireli, E.	2012	<i>Renewable Energy</i> 39 (1) , pp. 1-9	0
View at publisher   SFX   Show abstract   Related documents					
14	<b>Organic solar cell materials and active layer designs-improvements with carbon nanotubes: A review</b>	Ratier, B., Nunzi, J.-M., Aldissi, M., Kraft, T.M., Buncel, E.	2012	<i>Polymer International</i> 61 (3) , pp. 342-354	1
View at publisher   SFX   Show abstract   Related documents					

Your query: (TITLE-ABS-KEY("renewable energy resources") AND TITLE-ABS-KEY(economic OR cost) AND TITLE-ABS-KEY(productivity OR efficiency))  
Analyze results | Edit | Save | Set alert | Set feed | View search history  
View secondary documents | Go to results: 119 Web

Document results: 1,227 | Show all abstracts  
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Search within results Search  
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Sort by Date (Newest)

	Document title	Author(s)	Date	Source title	Cited by
1	<input checked="" type="checkbox"/> <a href="#">The economic, environmental and strategic value of biomass</a>	Carneiro, P., Ferreira, P.	2012	<i>Renewable Energy</i> 44 , pp. 17-22	0
	View at publisher       Show abstract    Related documents				
2	<input type="checkbox"/> <a href="#">Performance evaluation of energy efficient lighting associated with renewable energy applications</a>	Sperber, A.N., Elmore, A.C., Crow, M.L., Cawfield, J.D.	2012	<i>Renewable Energy</i> 44 , pp. 423-430	0
	View at publisher       Show abstract    Related documents				
3	<input type="checkbox"/> <a href="#">Flexible design of a pico-hydropower system for Laos communities</a>	Vicente, S., Bludszuweit, H.	2012	<i>Renewable Energy</i> 44 , pp. 406-413	0
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Everyone else likes to find.”

- Roy Tennant -



# Questions?



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