

ScienceDirect : The Database for Research Empowering

Trainer : Nattaphol Sisuruk

Elsevier Training Consultant,
Research Solutions

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CONTENTPROVISION



'E' CONTENT PROVISION SEARCH & DISCOVERY



RESEARCH MGMT /PROMOTION TOOLS

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SciVal Experts

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Niels
Bohr Physics



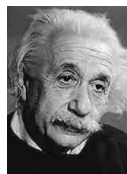
Louis
Pasteur
(Chemistry)



Alexander
Fleming
Medicine



Albert
Einstein
Physics



George F.
Smoot
Physics



John C.
Mather
Physics



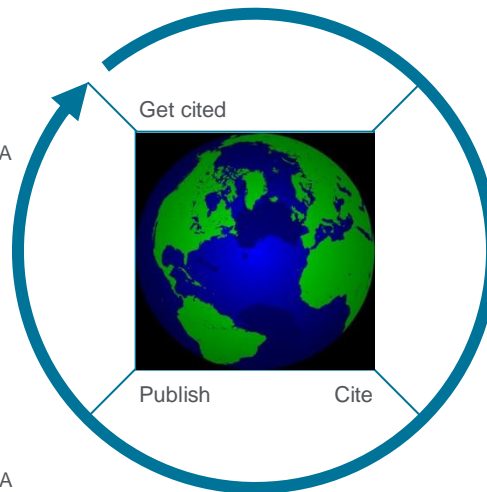
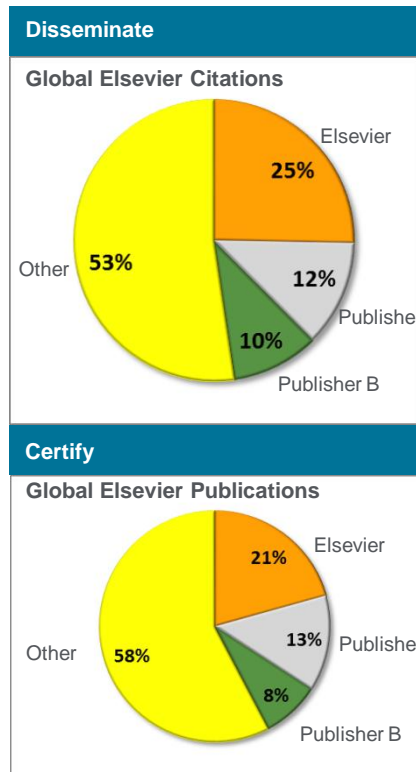
Roger D.
Kornberg
Chemistry



Craig C Mello
Medicine

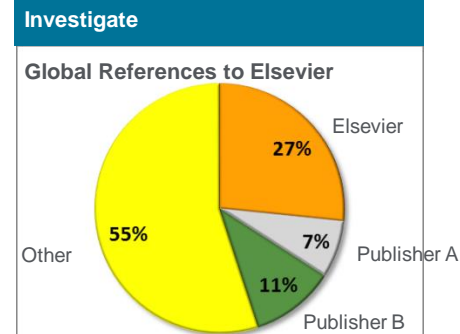


Globally recognised high impact content



Total STM reference, publication & citations share

Coverage: Approximately 5,000 publishers



**24 Citations Per Paper:
27% of all references**

Global team

74 offices in 24 countries

7,000 Journal Editors

70,000 Editorial Board Members

600,000 authors

2010-2014			
Publisher	References	Publications	Citations
Elsevier	56,304,346	1,888,115	45,990,748
Publisher A	15,738,334	1,221,036	22,374,220
Publisher B	23,064,330	747,976	18,298,048
Other	116,371,011	5,261,600	95,192,376
Totals	211,478,021	9,118,727	181,855,392

Elsevier Research Platforms

: Researchers seek a digital environment where ideas can be exchanged, examined, and applied with tools that empower STM knowledge.

The logo for Scopus, featuring the word "Scopus" in a bold, blue, sans-serif font.

To find and analyze data from over 5000 publishers

The logo for ScienceDirect, featuring the words "ScienceDirect" in a green, sans-serif font.

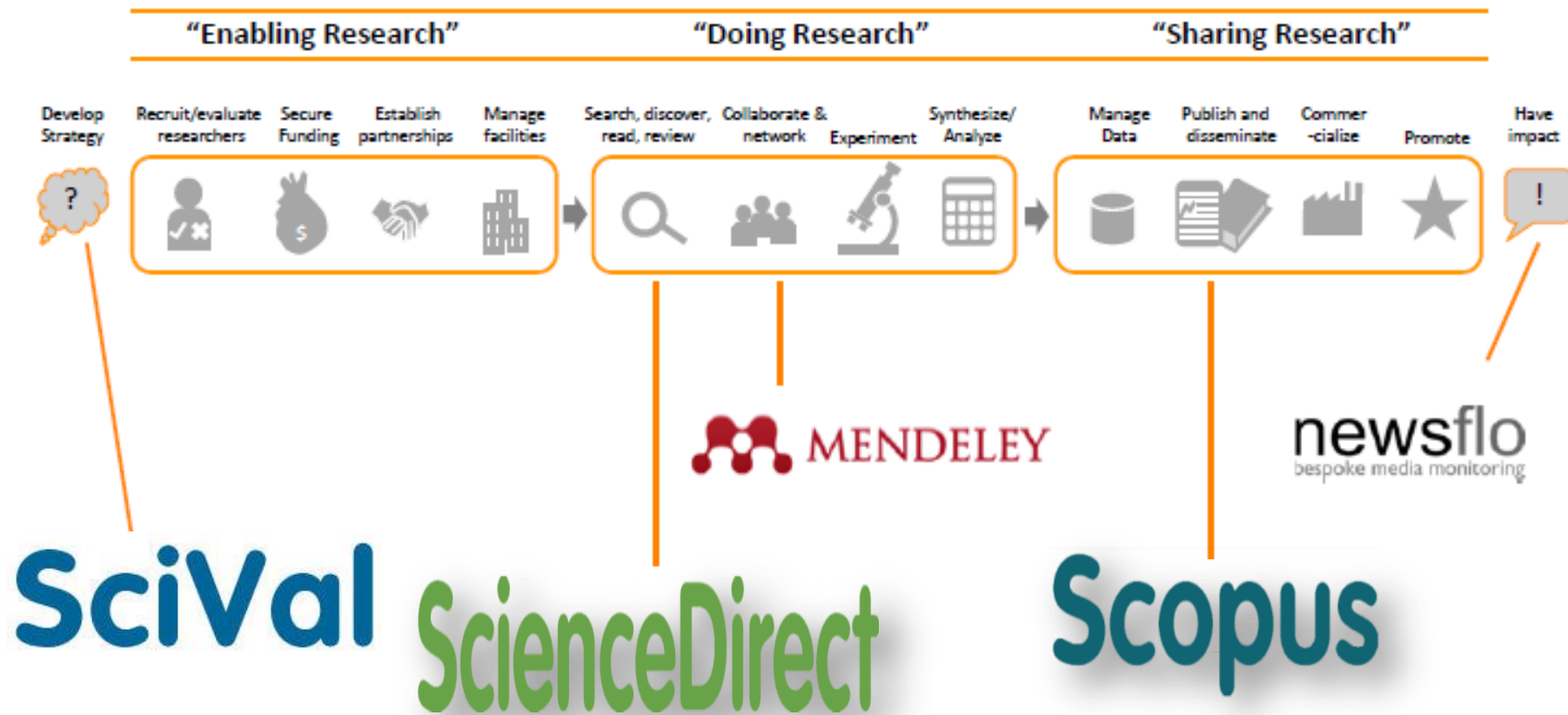
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Manage your research and showcase your profile via free services

:These platforms make data and content easier to search, access, analyze, and share.

Elsevier is engaging across the research workflow



Session Outline

1**Introduction to ScienceDirect****2**

Search Content & Search Results

3**Browse Journal & Book Titles in ScienceDirect****4**

Features & Functionalities to Support Research Work

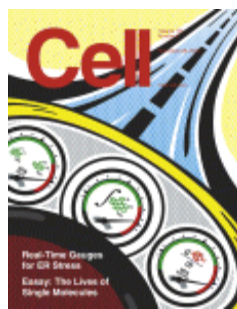
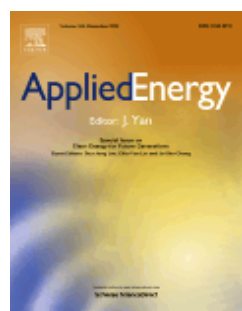
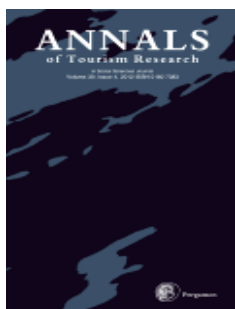
5**ScienceDirect Supporting Sites**

Introduction to ScienceDirect

What is ScienceDirect ?

ScienceDirect , launched in March 1997 , the world leading full-text scientific database offering journal articles and book chapters including to sophisticated search and retrieval tools.

- Over **14 million articles** are available online, including Articles in Press
- More than **3,800 journals** , **covering 24 major disciplines** cross Scientific, Technical, Medical (STM) and Social Sciences and Humanities (SSH)
- **Over 35,000 books** published by Elsevier including Major Reference Works, eBooks, Books Series and Hand Books
- **Over 250,000 articles** on ScienceDirect are open access
- Publishes over **25% of the world's full-text** scientific journals with several high-profile journal titles such as Cell, The Lancet, Tetrahedron and Gray's Anatomy
- Including content integrated from a variety of **external sources** in the form of audio, video and dataset



Elsevier is the top scientific content provider of vital interdisciplinary information essential across industries and disciplines

Scientific Research Articles Published

#1 Global Provider

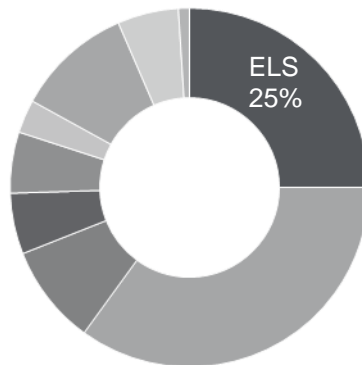
Publish 25% of world's journal articles

2,500 active journals

22,000 book titles

900 serials

Over 13 million full-text articles



Global team

74 offices in 24 countries

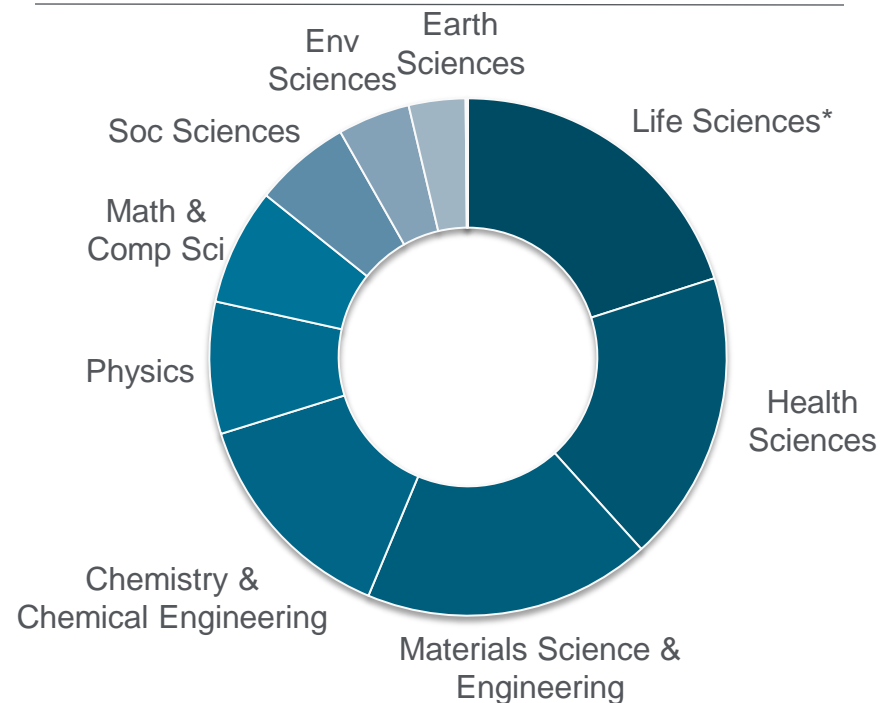
7,000 Journal Editors

70,000 Editorial Board Members

600,000 authors

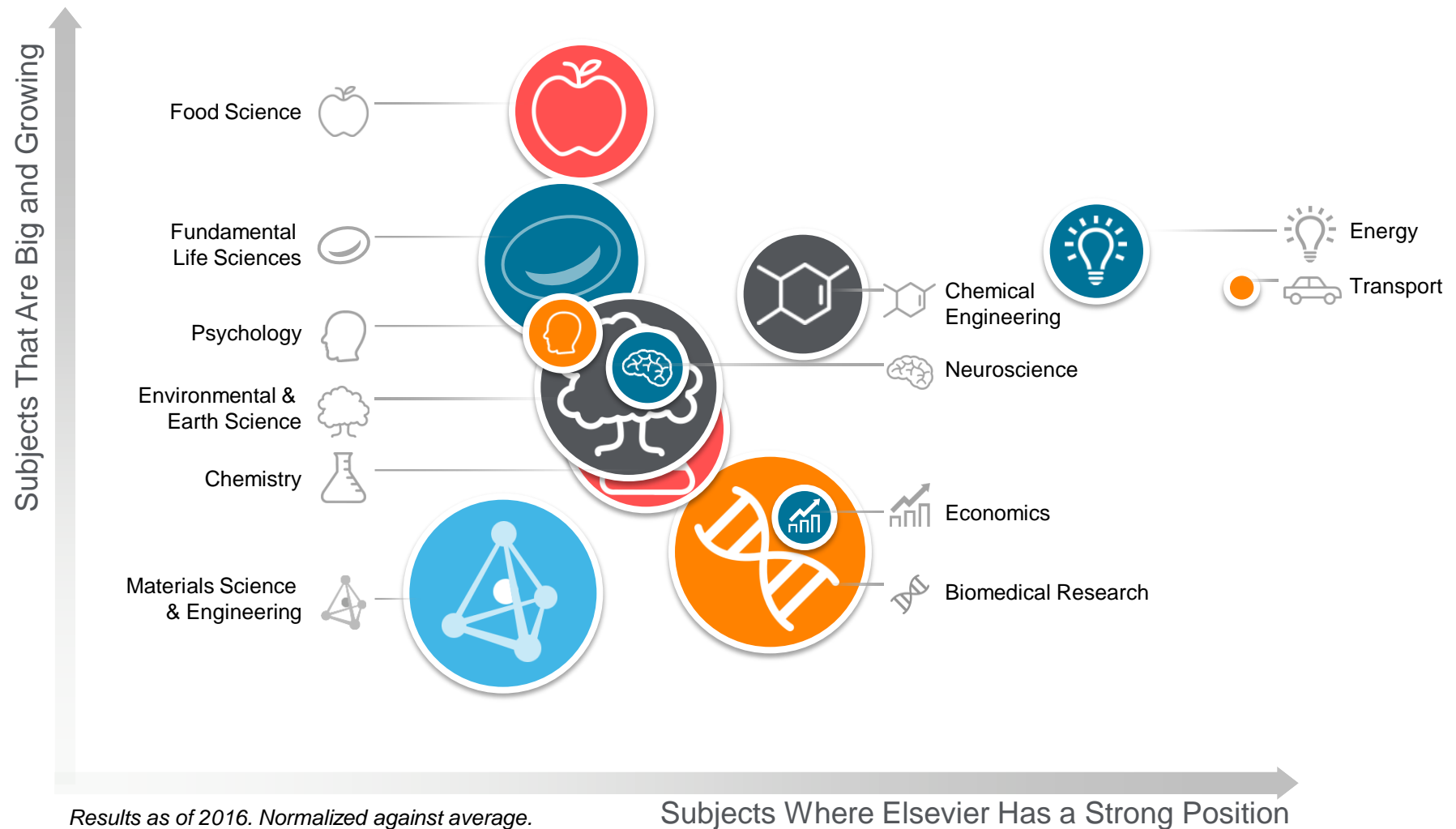


Multi-disciplinary content



* Includes biological and biotechnology-related fields, neuroscience, pharmacology, toxicology

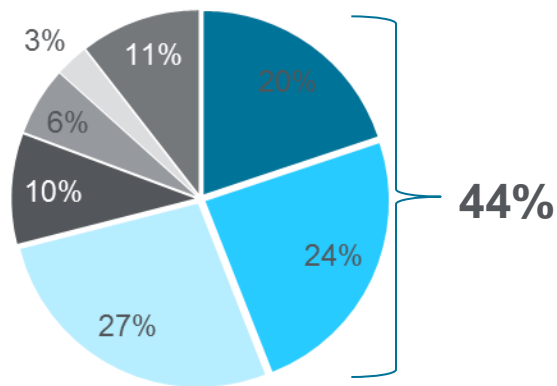
Deep Vertical Strategy focusing on the largest fastest growing research areas where Elsevier is strongest



Researchers are often working in interdisciplinary fields

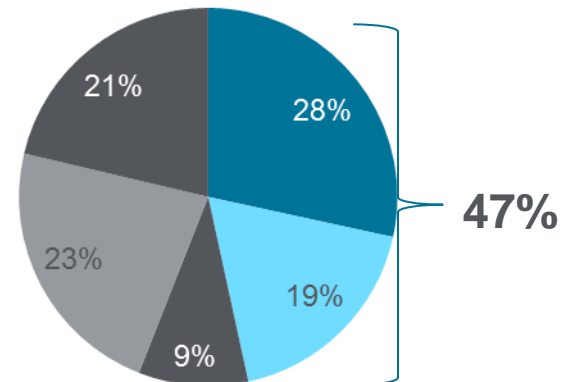
Understanding User Needs & Behaviour and Identifying Core Use Cases

44% of researchers look for **content** outside their field at least weekly



- Several times a week
- Around once a week
- Around once or twice a month
- Once every 2-3 months
- Once every 6 months
- Less often/never

47% of researchers look for **collaborators** outside their field at least once a year



- At least once every 6 months
- Once a year
- Once every 2-3 years
- Less often/never
- It varies

Exploring Literature Needs

I need to **stay abreast of current research** in order to be able to provide accurate information to my students

I need detailed information that I can use to **prepare my lecture notes** with more reliable data



Professors

I need the tools and content to **master important research skills** that are valued in the real world.



Students

I need to **collaborate** with other researchers around the world



Researchers



Librarians

I must support and **meet the needs of my customers** – faculty, students and researchers

I need to make sure **cost savings and efficiencies** are in place for the institution

Exploring Literature



1. Reading research

2. Keeping up-to-date with your field

3. Searching online scientific literature

4. Obtaining in-depth knowledge on a subject

The researchers' challenge is in these use cases

A researcher reads > 300 articles per year

3.7 Hrs spent
SEARCHING for
articles per week

Researchers spend an average
10 hours per week searching
for and reading articles



....of which, **3.5 hours** is spent
searching for research articles and
5.5 hours reading.

- Researchers in Chemistry and Life Science spend longer than average searching for articles and chemists spend longer reading
 - Younger researchers spend > **4hrs** a week searching.
 - Researchers from China spend longer searching (**six hours**) and reading (**nine hours**) articles than any other country.
- n=4,225

5.6 Hrs spent
READING articles per
week

**6 articles read
per week**

**42% regarded as
'important'**

- A researcher typically reads **six** articles per week.
- Chemists read nine per week. Mathematicians read four articles per week.
- China-based researchers read one more than average per week (7 articles).
- After searching and reading for 10 hrs per week only **42%** of the papers read are considered important.

There are a number of roles that ScienceDirect must fill

Researchers have told us that to feel confident they have the necessary knowledge, they need a tool that will...



**Help me discover
the relevant
information**



**Keep me informed of the
latest developments and
news**



**Give me access to
the detail**



**Make the process
quick and easy**

Using Personal Functions

ScienceDirect

Journals

Books

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?

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credentials

Username

Password

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[Advanced search](#)

1854 - Broad Street cholera outbreak map by John Snow.
An early example of data visualization and a breakthrough for the science of epidemiology.

[Feedback](#)

1 User Sign In

2 User-Log In / Not Registered

User Registration

ScienceDirect



Create an account

By creating an account you agree with Elsevier Registered User Agreement and Privacy Policy.

[Create >](#)

Search Content & Search Results

Search Tips

General

1. Capital / Non-capital letter

2. Singular / Plural forms / Possessives

3. British / American spellings

4. (" . ") Quotation mark

5. ({ ... }) Curly Brackets

Wildcards

1. (?) Question Mark for one alphabet search

Ex. Wom?n = Woman, Women

2. (*) Asterisk for multi-alphabets search

Ex. Toxi* = Toxic, Toxicity, Toxicology etc.

3. Subscript and Superscript:

Ex. "H₂O," enter H2O

4. Accented Characters:

Ex. Fürst, enter Fürst or Furst

Operator Priority Order

1. OR 2. W/n or PRE/n 3. AND 4. AND NOT

by
can
could
do
does
done
due
during
each
either
enough
especially
etc
ever
for
found
from
further
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hardly
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significantly

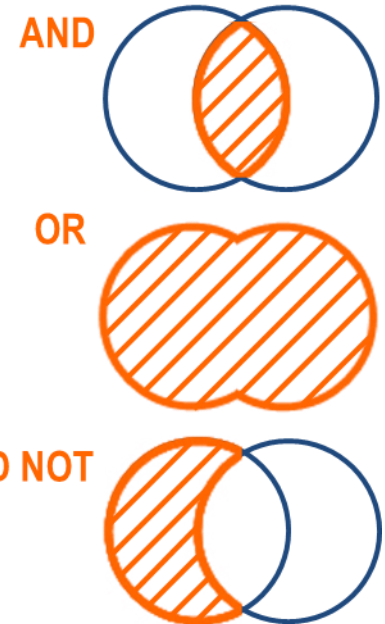
since
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very
viz
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were
what
when
where
whereby
wherein
whether
which
while
whom
whose
why
with
within
without
would
you

Search Term Rules - Boolean

Boolean Operators

- **AND** Finds only documents that contain all of the terms. The terms may be far apart from each other.
e.g. **food AND poison**
- **OR** Finds documents that contain any of the terms. It is used to cover synonyms, alternate spellings, or abbreviations.
e.g. **weather OR climate; “green fluorescent protein” OR gfp**
- **AND NOT** Excludes documents that include the specified term from the search. It must be used at the end of a search.
e.g. **tumor AND NOT malignant**



Order of Precedence Rules Boolean

Order of precedence rules

Searches with multiple operators are processed in the following order:

1. OR
2. AND
3. AND NOT

After the precedence rules are applied, the search is read left to right.

Proximity operators Pre/n and W/n are processed after OR and before AND

This is a similar concept to “order of operations” in maths

Basically, the search engine needs to know what to do first



Basic Search

ScienceDirect

Journals

Books

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Explore scientific, technical, and medical research on ScienceDirect

Search for peer-reviewed journals, articles, book chapters and open access content.

[Advanced search](#)

Search effectively supports the four most frequent research tasks and is available on every page:

- Related articles by searching specific keywords
- A specific author name
- A specific journal/book title
- A specific article by publication/ vol./ issue/ page search

1854 - Broad Street cholera outbreak map by John Snow.
An early example of data visualization and a breakthrough for the science of epidemiology.

Feedback

Advanced Search

ScienceDirect

Journals

Books

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Advanced Search by

1. All
2. Journals
3. Books
4. Reference Works
5. Images

Search all fields Author name Journal or book title Volume Issue Page  Advanced search

All Journals Books Reference Works Images

Advanced search | [Expert search](#)

[? Search tips](#)

Search for

GIS in All Fields

AND

in All Fields

Refine your search

☒ Journals ☒ All

☒ Books ☐ My Favorites

☐ Subscribed publications

☐ Open Access articles

- All Sciences -

Agricultural and Biological Sciences

Arts and Humanities

Biochemistry, Genetics and Molecular Biology

☒ All Years ☐ 2007 to: Present

Search

Hold down the Ctrl key (or Apple Key) to select multiple entries.

Search history [Turn off](#) [Save history as](#) | [Recall history](#) | [Clear all](#) | [Print](#)

[Select: Combine with AND](#) | [Combine with OR](#) | [? Combining tips](#)

Search	Results	Actions
<input type="checkbox"/> ({Fatty Acids}) and (w-3 poly*) [All Sources(- All Sciences -)]	23,190 articles	Edit Delete
<input type="checkbox"/> ({Fatty Acids}) and (omega-3 poly*) [All Sources(- All Sciences -)]	23,191 articles	Edit Delete
GIS [Images(- All Sciences -)]	126,813 images	Edit Delete
pub-date > 2009 and pub-date < 2014 and ({Climate Change}) and Environment AND LIMIT-TO(inttype, "video") [Images(- All Sciences -)]	0	Edit Delete
pub-date > 2009 and pub-date < 2014 and ({Climate Change}) AND LIMIT-TO(inttype, "video") [Images(- All Sciences -)]	11 images	Edit Delete
pub-date > 2009 and pub-date < 2016 and ({Climate Change}) and Environment AND LIMIT-TO(inttype, "video") [Images(- All Sciences -)]	0	Edit Delete
pub-date > 2009 and pub-date < 2016 and ({climate change}) AND LIMIT-TO(inttype, "video") [Images(- All Sciences -)]	27 images	Edit Delete
pub-date > 2009 and pub-date < 2016 and ({climate change}) and water AND LIMIT-TO(inttype, "video") [Images(- All Sciences -)]	11 images	Edit Delete

[Feedback](#)

Expert Search

ScienceDirect


Journals

Books

Nattaphol Sisuruk

Expert Search by

1. All
2. Journals
3. Books
4. Reference Works
5. Images

Search all fields Author name Journal or book title Volume Issue Page  Advanced search

All Journals Books Reference Works Images Advanced search | Expert search

? Search tips

Search for (Enter terms using Boolean connectors e.g. "heart attack" AND stress)

Refine your search

- ☒ Journals
☒ Books
☒ All
☐ My Favorites
☐ Subscribed publications
☐ Open Access articles

- All Sciences -
 Agricultural and Biological Sciences
 Arts and Humanities
 Biochemistry, Genetics and Molecular Biology

Hold down the Ctrl key (or Apple Key) to select multiple entries.

















☒ All Years
☐ 2007 to: Present

Search

Search history Turn off

Save history as | Recall history | Clear all | Print

Select: Combine with AND | Combine with OR | ? Combining tips

Search	Results	Actions
<input type="checkbox"/> ({Fatty Acids}) and (ω-3 poly*) [All Sources(- All Sciences -)]	23,190 articles	 Edit  Delete
<input type="checkbox"/> ({Fatty Acids}) and (omega-3 poly*) [All Sources(- All Sciences -)]	23,191 articles	 Edit  Delete
GIS [Images(- All Sciences -)]	126,813 images	 Edit  Delete
pub-date > 2009 and pub-date < 2014 and ({Climate Change}) and Environment AND LIMIT-TO(inttype, "video") [Images(- All Sciences -)]	0	 Edit  Delete
pub-date > 2009 and pub-date < 2014 and ({Climate Change}) AND LIMIT-TO(inttype, "video") [Images(- All Sciences -)]	11 images	 Edit  Delete
pub-date > 2009 and pub-date < 2016 and ({Climate Change}) and Environment AND LIMIT-TO(inttype, "video") [Images(- All Sciences -)]	0	 Edit  Delete
pub-date > 2009 and pub-date < 2016 and ({climate change}) AND LIMIT-TO(inttype, "video") [Images(- All Sciences -)]	27 images	 Edit  Delete
pub-date > 2009 and pub-date < 2016 and ({climate change}) and water AND LIMIT-TO(inttype, "video") [Images(- All Sciences -)]	11 images	 Edit  Delete

Feedback 

Searching for Images

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GIS

Author name

Journal or book title

Volume

Issue

Page



Advanced search

Image search results: 126,080 results found

1

Refine filters

Year

- ☐ 2017 (4,224)
- ☐ 2016 (14,083)
- ☐ 2015 (11,745)
- ☐ 2014 (10,747)
- ☐ 2013 (10,325)

View more >>

Publication title

- ☐ Gastroenterology (2,525)
- ☐ Computers & Geosciences (2,460)
- ☐ Geomorphology (2,272)
- ☐ Developmental Biology (2,151)
- ☐ Applied Geography (1,708)

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Topic

- ☐ gi (1,090)
- ☐ system (964)
- ☐ urban (871)
- ☐ spatial (763)
- ☐ stem cell (717)

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Content type

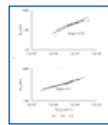
- ☐ Journal (121,916)
- ☐ Book (6,991)
- ☐ Reference Work (922)

Image type

- ☐ Figure (127,468)
- ☐ Video (612)

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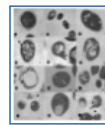
2



Conformational plot of (a) amylose and (b) amylopectin fractions of aroid starches....

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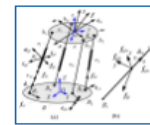
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TEM images of *S. cerevisiae* KE 162 cells. a,b,c: untreated cells; d-f....

PDF (2893 K)

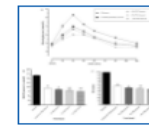
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A general PM (a), inertial force, its components of $r_1<...$

PDF (864 K)

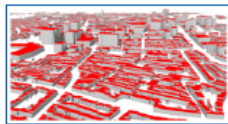
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Mean blood glucose response (A), iAUC (B) and GI value (C) of glucose as...

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3D model of Rotterdam generated without elevation data. An evaluation of these...

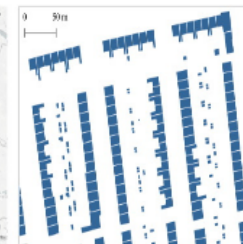
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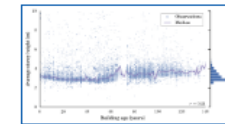


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PDF (...



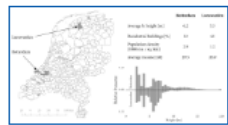
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Storey height is somewhat associated to the age of the building. We take...

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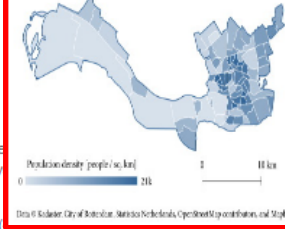
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Location and comparison of Rotterdam and Leeuwarden. The two histograms...

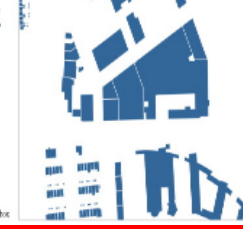
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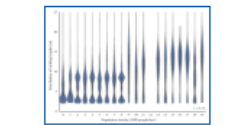


The re...

PDF (...



with



Violin plots (Hintze & Nelson, 1998) indicating the distribution of heights ...

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Date | All access types

Related books

Refine filters

Year

- ☐ 2017 (7,434)
- ☐ 2016 (26,294)
- ☐ 2015 (23,368)
- ☐ 2014 (21,976)
- ☐ 2013 (21,411)

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Publication title

- ☐ Gastroenterology (23,397)
- ☐ Gastrointestinal Endoscopy (9,369)
- ☐ Nuclear Physics B (3,969)
- ☐ Physics Letters B (3,538)
- ☐ Journal of Algebra (2,992)

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Topic

- ☐ patient (31,511)
- ☐ theorem (14,616)
- ☐ cell (10,555)
- ☐ model (5,969)
- ☐ dna (5,609)

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Content type

- ☐ Journal (479,992)
- ☐ Book (40,253)
- ☐ Reference Work (2,724)

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Refine Result in SD

1. Content Type
2. Journal/Book Title
3. Topic
4. Year

Peer review report 1 on "Seasonal and annual fluxes of atmospheric nitrogen deposition and riverine nitrogen export in two adjacent contrasting rivers in central Japan facing the Sea of Japan"
Journal of Hydrology: Regional Studies, Volume 9, Supplement 1, December 2017, Pages 19-20
Anonymous
PDF (130 K)

Peer review report 2 on "Evaluation of I Basin, Ecuador"
Journal of Hydrology: Regional Studies, Volume 9, Supplement 1, December 2017, Pages 19-20
Anonymous
PDF (122 K)

Peer review report 1 on "Space-time Tr Methods on Critical
Journal of Hydrology: Regional Studies, Volume 9, Supplement 1, December 2017, Pages 19-20
Anonymous
PDF (125 K)

Peer review report 2 on " Analysis of TI Natural Scenarios"
Journal of Hydrology: Regional Studies, Volume 9, Supplement 1, December 2017, Page 182
Anonymous
PDF (117 K)

Identification of genetic variation in NOD-like receptor 2 gene and influence of polymorphism on gene structure and function in buffalo (*Bubalus bubalis*) Original Research Article
Research in Veterinary Science, Volume 115, December 2017, Pages 43-50
Asmita Dhiman, S.K. Mishra, P.K. Dubey, S. Goyal, M. Sehgal, S.K. Niranjana, M. Sodhi, B.P. Mishra, R.S. Kataria
[Abstract](#) | [Research highlights](#) | [PDF \(1217 K\)](#) | [Supplementary content](#)

Comparative pathogenicity and immunogenicity of triple and double gene-deletion pseudorabies virus vaccine candidates Original Research Article
Research in Veterinary Science, Volume 115, December 2017, Pages 17-23
Jing Dong, Juan Bai, Tao Sun, Zhengqing Gu, Jichun Wang, Haifeng Sun, Ping Jiang
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Intuitive Online Article Format

The screenshot displays the Elsevier online article format for the journal *Marine Geology*. The article title is "Carbonate preservation patterns at the Cear  Rise – Evidence for the Pliocene super conveyor" by Michael Frenz, R diger Henrich, and Bj rn Zychla. The page includes a sidebar with a "Table of contents" (1-7) and "Figures and tables" (1-4). The main content area shows the abstract and a large green arrow pointing to the right, labeled "New and valuable types of content". The right sidebar features "Recommended articles" (1-3), "Citing articles (5)", and "Related book content". The bottom of the page shows a map of the Cear  Rise area with a red box highlighting the study location.

1 Navigator Bar

2 Discover more about New content and supplementary data

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New and valuable types of content

Provides easy navigation

General Structure of Research Article

- * Title
- * Abstract
- * Keywords

Main Text (IMRAD)

- * Introduction
- * Methods
- * Results
- * Discussions

- * Conclusion
- * Acknowledgment
- * References
- * Supplementary Data

The screenshot displays a research article page from Elsevier. The page is structured as follows:

- Article outline:** A sidebar on the left lists the article's sections: Abstract, Keywords, Introduction, Methods, Results, Discussion, Conclusions, Acknowledgements, and References. The 'Results' section is currently selected.
- Article title and journal information:** The article is titled 'Carbonate preservation patterns at the Cear  Rise – Evidence for the Pliocene super conveyor' and is published in 'Marine Geology', Volume 232, Issues 3–4, 7 November 2006, Pages 173–180.
- Authors:** Michael Frenz, R diger Henrich, and Bj rn Zychla.
- DOI:** 10.1016/j.margeo.2006.07.006.
- Abstract:** The abstract text describes the study's findings on carbonate preservation patterns at the Cear  Rise, mentioning the use of various proxies and the results of the study.
- Figures and tables:** A section on the left shows a preview of the article's figures and tables, including a map and several data plots.
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Abstract

Keywords

1. Introduction

2. Methods

2.1. Core locations and age model

2.2. Sample treatment

3. Results

3.1. Bulk carbonate content

3.2. Sand content

3.3. Proportion of whole test forami...

3.4. Bulloides dissolution index (B...

3.5. Proportion of foraminifer vs. co...

3.6. Coarse carbonate silt (CS) me...

3.7. Terrigenous silt grain-size distr...

4. Discussion

4.1. Evaluation of carbonate dissol...

4.2. History of NADW production a...

5. Conclusions

Acknowledgements

References

Figures and tables

Marine Geology

Volume 232, Issues 3–4, 7 November 2006, Pages 173–180

Carbonate preservation patterns at the Ceará Rise – Evidence for the Pliocene super conveyor

Michael Frenz , Rüdiger Henrich, Björn Zychla

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Abstract

Enhanced Atlantic overturning during the Pliocene was first proposed almost 10 yrs ago. Evidence for this Pliocene super conveyor scenario has been collected using a number of proxies (e.g., benthic $\delta^{13}\text{C}$, Nd isotopic composition of manganese crusts). The present study contributes to the existing evidences by using carbonate dissolution and current vigour history of early Pliocene sediments from the Ceará Rise (ODP Sites 927 and 929). In order to reveal carbonate dissolution history, a number of commonly used and newly established proxies were applied, i.e., sand and carbonate contents, foraminifer fragmentation index, Bulloides Dissolution Index and carbonate silt grain-size distributions. Terrigenous silt grain-size distributions were used to unravel variations in relative current strength and sediment input to the two sites. Overall good carbonate preservation at the shallow Site 927 (3314 m water depth) shows that this level was bathed in North Atlantic Deep Water throughout the early Pliocene. The contrastingly poor carbonate preservation record of the deeper Site 929 (4358 m water depth, at present exposed to Antarctic Bottom Water) is frequently interrupted by phases of good carbonate preservation. These results indicate that the depth of the calcite lysocline was mainly tied to present level (~ 4200 m water depth), and sometimes even dropped to water depths greater than 4360 m due to even more enhanced circulation. Surprisingly the expansion of NADW is not clearly reflected by an increase in current speed as shown by continuously fine terrigenous grain size.

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Social Science & Medicine
Volume 70, Issue 3, February 2010, Pages 360–367

An assessment of community readiness for HIV/AIDS preventive interventions

Frances Aboud^{a,b}, David A. Asch^{c,d}

<http://dx.doi.org/10.1016/j.ssm.2010.01.001>

Abstract
Efforts to prevent HIV in Bangladesh are impacted by the dissemination of the stages model was used to train community leaders to facilitate professional group discussions conducted in late 2007. Drugshop vendors were coded as were catastrophes for the Vulnerability index was. Remarks at St sex, blood and ne mentioned in each unmarried males an each group recog discussions centere the lead. By 2007 participants articulated more realistic strategies that they themselves could, and

Keywords: Community readiness; HIV/AIDS; Preventive interventions; Bangladesh.

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Table 1

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4. S2PLOT, JavaScript and 3D PDF
5. Other approaches
6. Closing remarks

Acknowledgements
Appendix A. Supplementary data
References

Figures and tables

Supplementary 3D models

New Astronomy
Volume 13, Issue 8, November 2008, Pages 599–605

Incorporating interactive three-dimensional graphics in astronomy research papers ★
Communicated by J. Silk

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Supplementary 3D models

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Dusty Torus
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Jets

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Volume 8, Issue 4, July–August 2012, Pages 371–374

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SURGERY FOR OBESITY AND RELATED DISEASES

Surgery for Obesity and Related Diseases 8 (2012) 371–374

Original article

Effect of bypassing the proximal gut on gut hormones involved with glycemic control and weight loss

Dimitri J. Pournaras, M.R.C.S.^{a,b}, Erlend T. Aasheim, M.D., Ph.D.^a, Marco Bueter, M.D.^a, Ahmed R. Ahmed, F.R.C.S.^a, Richard Welbourn, M.D., F.R.C.S.^b, Torsten Olbers, M.D., Ph.D.^a, Carel W. le Roux, M.R.C.P., Ph.D.^{a,*}

^aImperial Weight Centre, Imperial College London, Charing Cross Hospital, London, United Kingdom
^bDepartment of Bariatric Surgery, Musgrove Park Hospital, Taunton, United Kingdom

Received May 23, 2011; accepted January 22, 2012

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Abstract

Graphical abstract

Keywords

1. Introduction

2. Experimental

3. Results and discussion

4. Conclusions

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Appendix A. Supplementary data

References

Figures and tables

Table 1

Table 2

Applied Catalysis A: General

Volume 482, 22 July 2014, Pages 237–244

Influence of precipitation conditions on precursor particle size distribution and activity of Cu/ZnO methanol synthesis catalyst

Bahman Vasheghani Farahani^{a,*}, Farzaneh Hosseinpour Rajabi^a, Mohsen Bahmani^a, Marzieh Ghelichkhani^b, Saeed Sahebdehfar^b

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<http://dx.doi.org/10.1016/j.apcata.2014.05.034>

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Highlights

- Cu/ZnO binary methanol synthesis catalysts were prepared by the co-precipitation route under various preparation conditions.
- Samples were characterized by different methods such as XRD, TPR, particle size distributions, etc.
- The correlation between the particle size of the precipitates and the activity of catalysts were investigated.
- Achieving smaller particle size during precipitation and aging is critical to obtain high performance catalysts.
- Higher reduction temperatures (of larger CuO crystallites) promote sintering of Cu crystallites.

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Role of the excess monomer in the growth of urea a...
2014, Journal of Colloid and Interface Science [more](#)

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Plot

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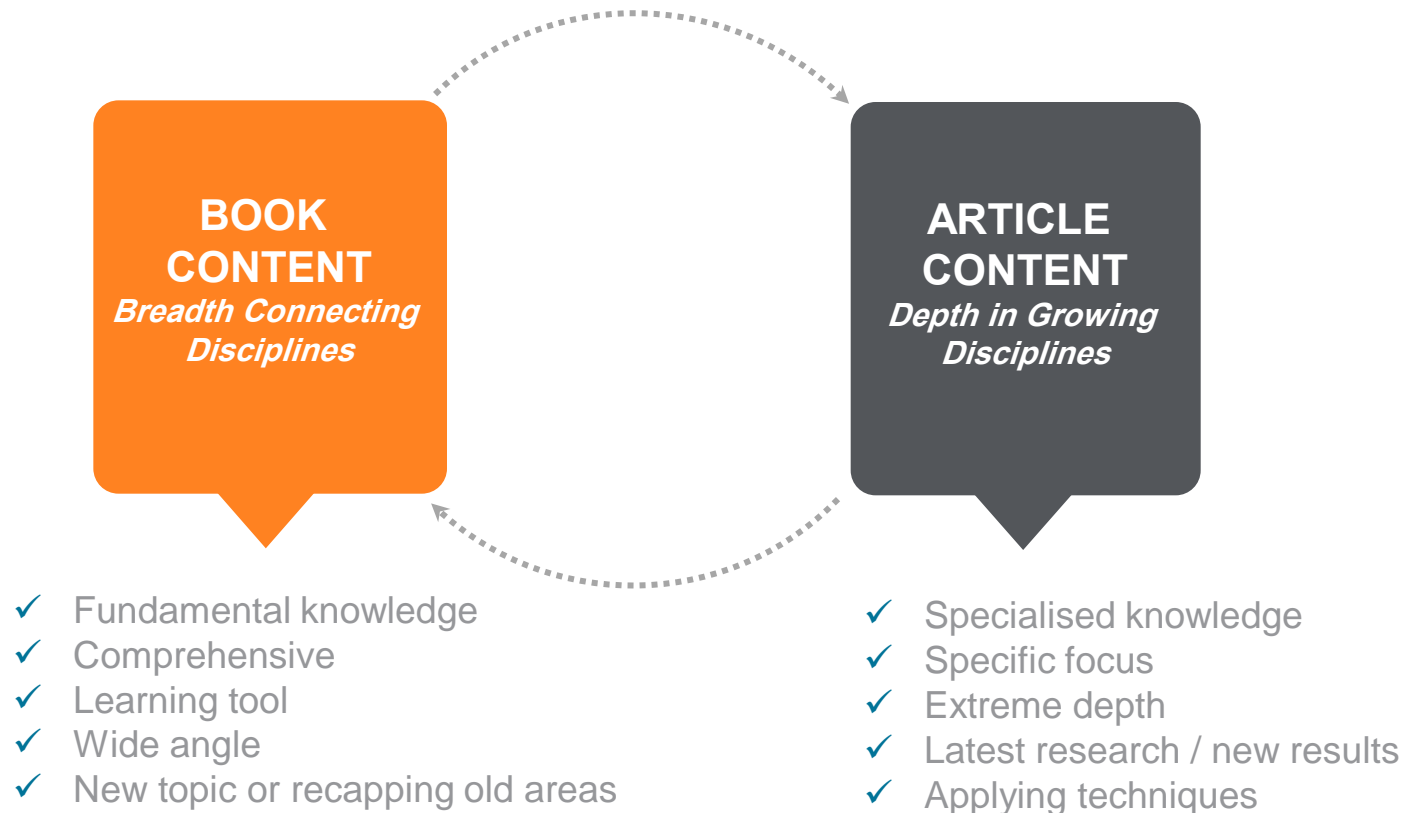
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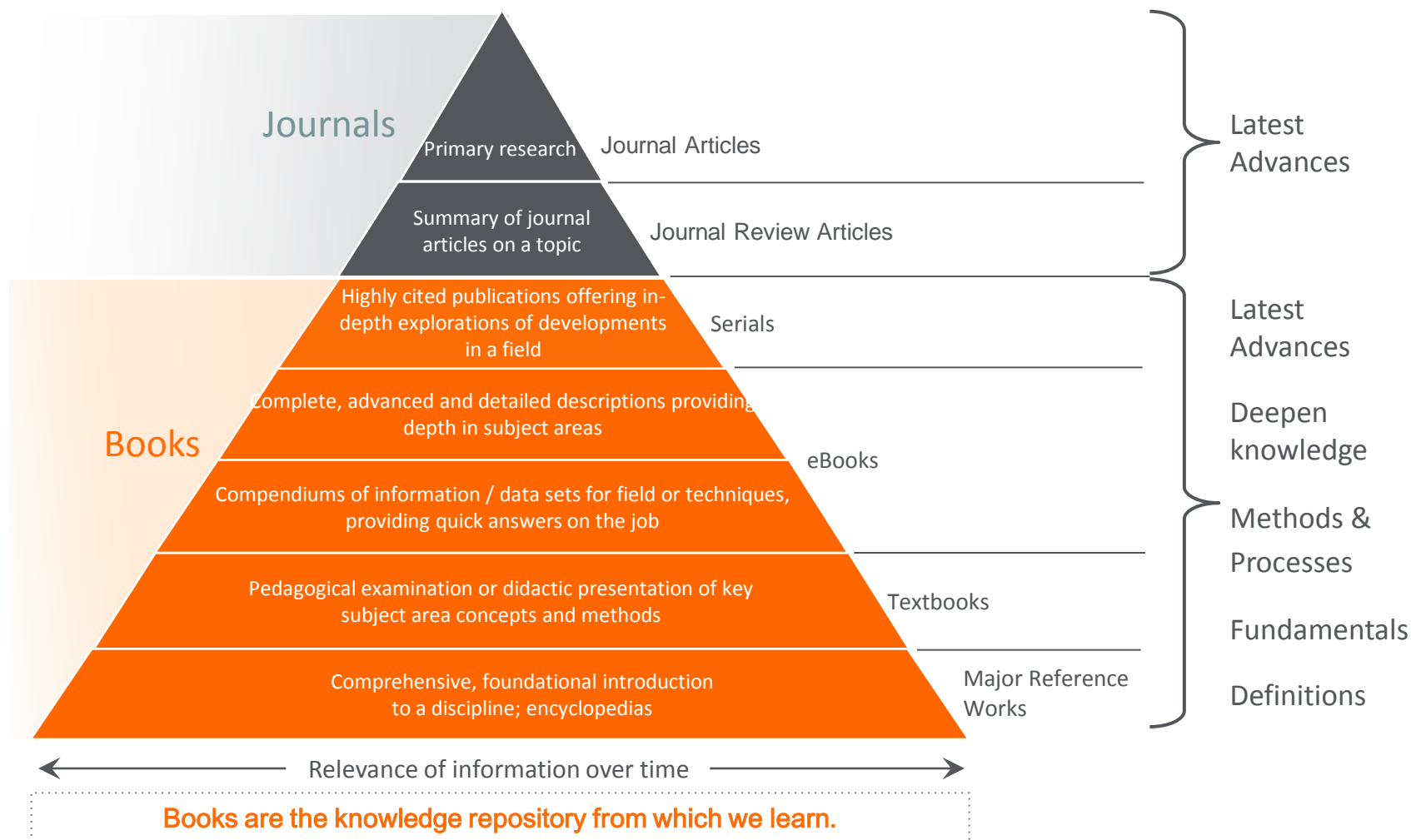
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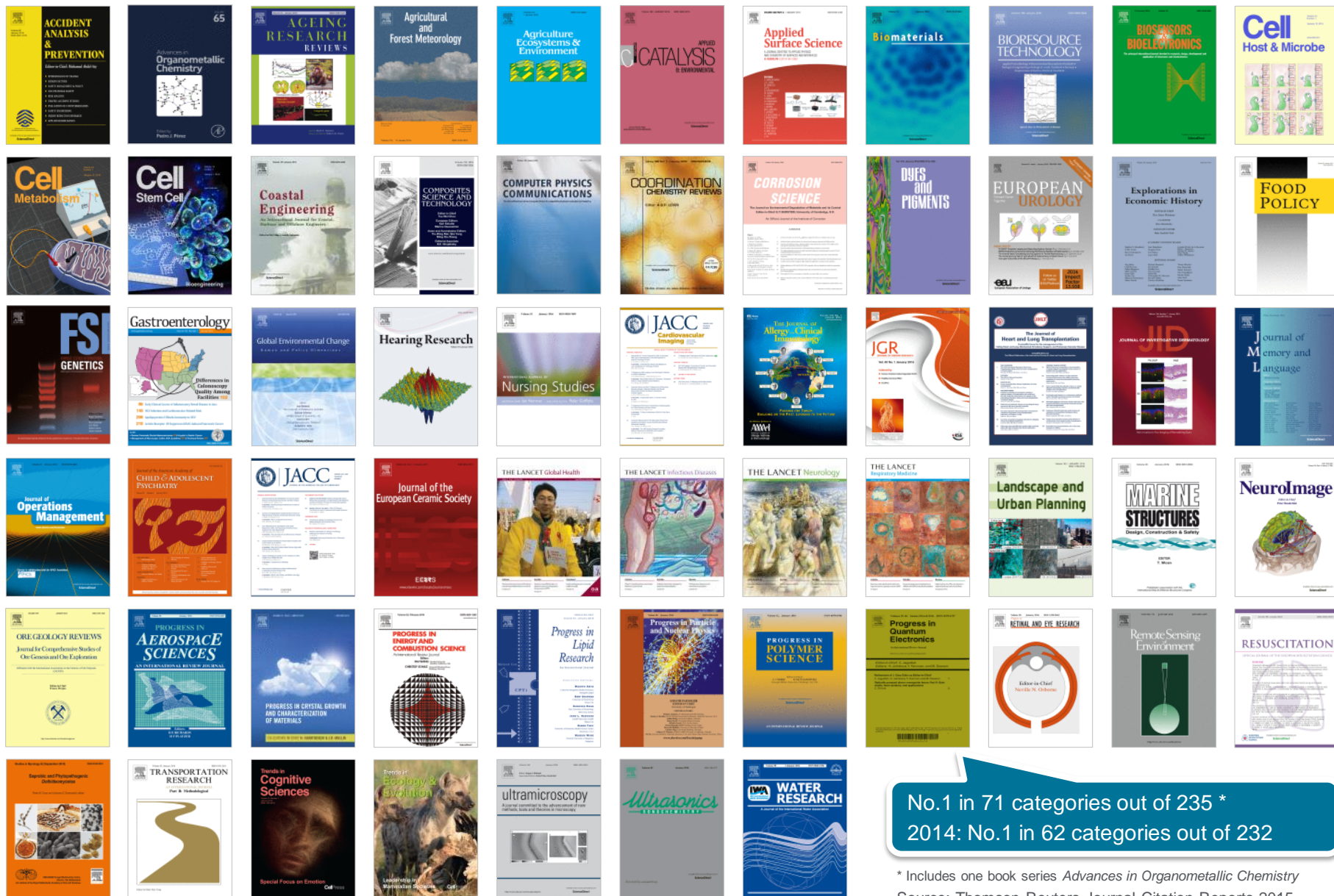
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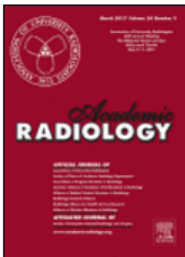
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5

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Articles in Press

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Volume 24, Issue 1
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Leon Lenchik
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Radiology Research Alliance

-  [The Science of Quality Improvement Review Article](#)
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Jason N. Itri, Eric Bakow, Linda Probyn, Nadja Kadom, Phuong-Anh T. Duong, Lori Mankowski Gettle, Mishal Mendiratta-Lala, Elena P. Scali, Ronald S. Winokur, Matthew E. Zygmunt, Justin W. Kung, Andrew B. Rosenkrantz
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Journal Article Format

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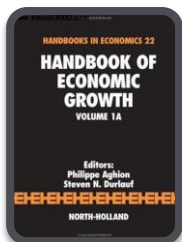
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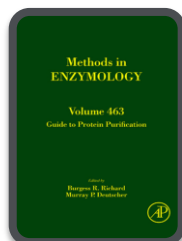
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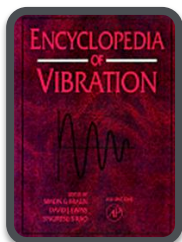
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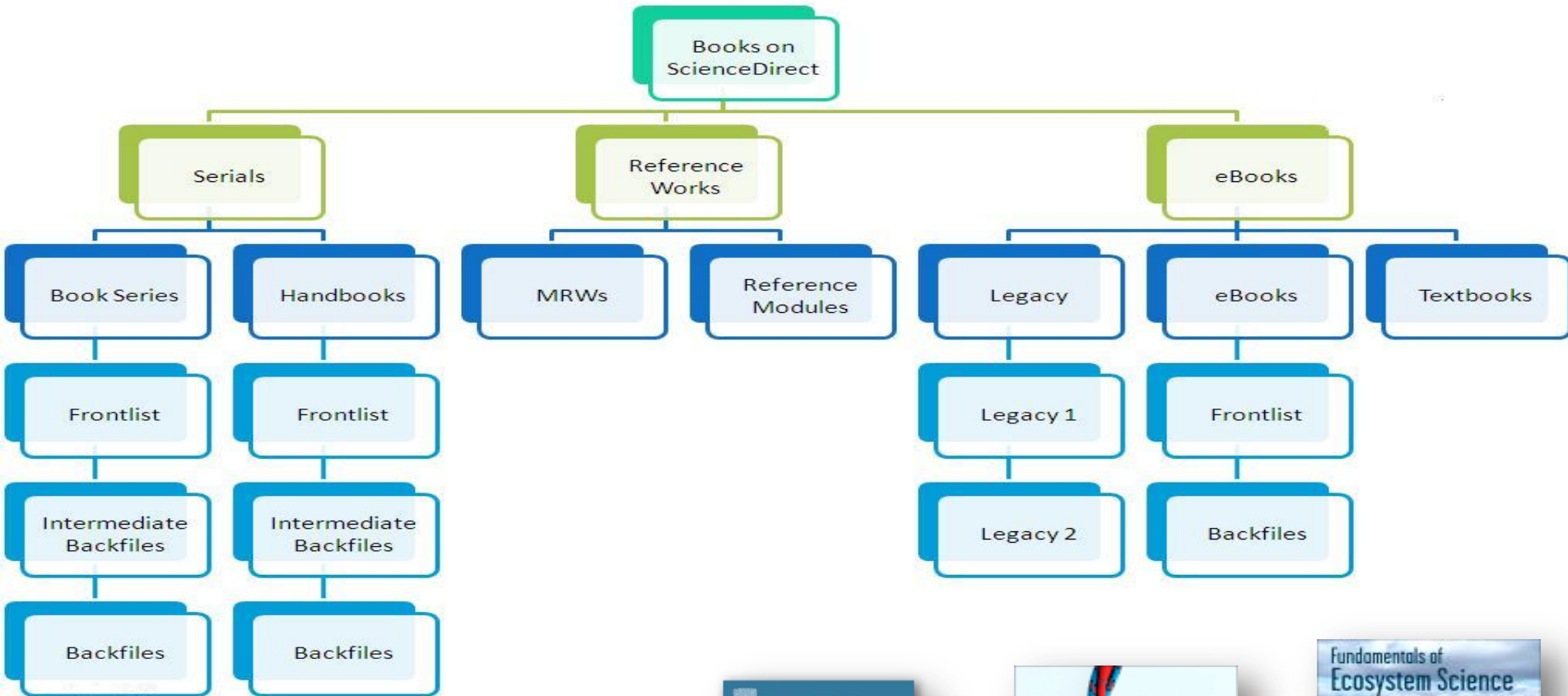


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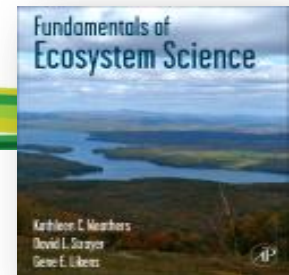
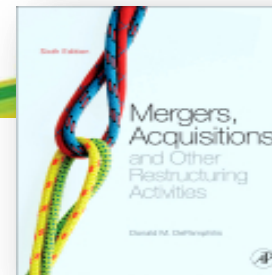
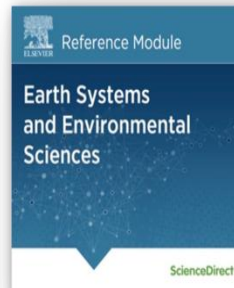
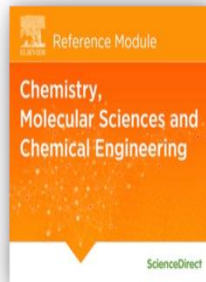
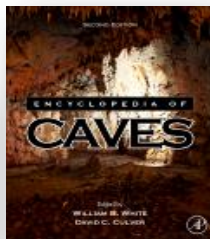
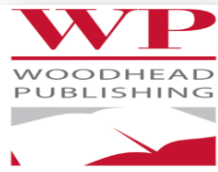
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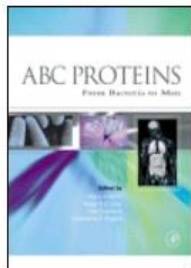
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From Bacteria to Man

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Front Matter, Copyright, CONTRIBUTORS, THE EDITORS, ABC TRANSPORTERS: AN INTRODUCTION AND OVERVIEW

PART I: PHYLOGENY AND EVOLUTION OF ABC TRANSPORTERS

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PDF (716 K)

CHAPTER 2 - MEMBRANE TOPOLOGY OF THE HUMAN ABC TRANSPORTER PROTEINS, Pages 37-46, ANDRÁS VÁRADI, GÁBOR E. TUSNÁDY, BALÁZS SARKADI

PDF (865 K)

CHAPTER 3 - HUMAN AND *DROSOPHILA* ABC PROTEINS, Pages 47-61, MICHAEL DEAN, ANDREY RZHETSKY, RANDO ALLIKMETS

PDF (1345 K)

ABC Proteins is an in-depth, up-to-date analysis of all that is known about the subject to date. It discusses and compares evolution, biology and mechanism of action of all known ABC proteins, including the first structural studies as well as clinical implications. It will be useful to anyone trying to stay abreast of the latest findings. This book is sure to become a classic and will regularly be updated.

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INTRODUCTION

METHODOLOGY

MEMBRANE TOPOLOGY OF THE ...

ABCA SUBFAMILY

ABCB SUBFAMILY

ABCC SUBFAMILY

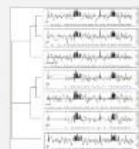
ABCD SUBFAMILY

ABCG SUBFAMILY

CONCLUSIONS

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Figures and tables



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3



ABC Proteins

From Bacteria to Man

2003, Pages 37–46



CHAPTER 2 – MEMBRANE TOPOLOGY OF THE HUMAN ABC TRANSPORTER PROTEINS

ANDRÁS VÁRADI, GÁBOR E. TUSNÁDY, BALÁZS SARKADI

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INTRODUCTION

The most recent annotation* of the human genome sequence revealed 48 genes for ABC proteins, which were grouped into seven subclasses, from ABCA to ABCG (see: <http://nu.trigene.4t.com/humanabc.htm>; see also Chapter 3). As detailed elsewhere in this book, ABC proteins in all organisms can be recognized by their conserved motifs within the ATP-binding domains. The majority of these proteins are membrane embedded and fulfill various membrane transport or regulatory functions (hence the designation ABC transporters), and our present review deals with such human proteins. In contrast, the human ABCE and ABCF subfamilies contain proteins with no known transmembrane domains; therefore these are outside the scope of this chapter.

It is generally accepted that the minimum functional unit requirement for an ABC

2

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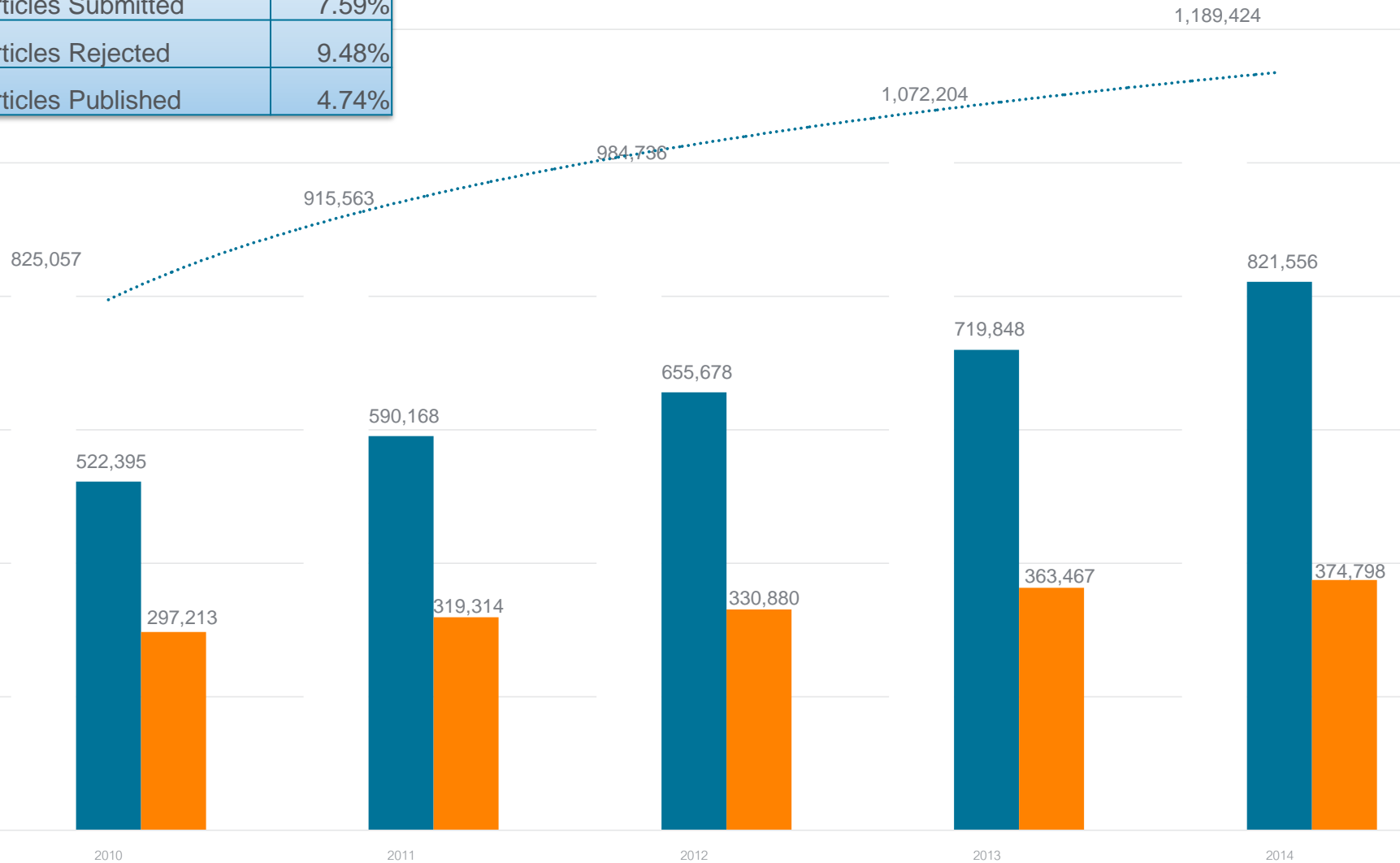
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The screenshot shows the Elsevier search results interface. At the top, there are search filters for GIS, Author name, Journal or book title, Volume, Issue, and Page, along with an Advanced search button. The search results section displays 507,142 results found. On the left, there are refine filters for Year, Publication title, Topic, and Content type. The main results list includes several articles related to GIS and environmental management. Annotations 1 through 5 highlight specific features: 1. Save search alert button, 2. RSS button, 3. Relevance and All access types dropdowns, 4. Export dropdown, and 5. Download PDFs button.

Search results: 507,142 results found.

Refine filters

Year

- ☐ 2017 (7,434)
- ☐ 2016 (26,294)
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- ☐ 2014 (21,976)
- ☐ 2013 (21,411)
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Publication title

- ☐ Gastroenterology (23,397)
- ☐ Gastrointestinal Endoscopy (9,369)
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- ☐ cell (10,555)
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Environmental management of Natura 2000 network areas through the combination of Geographic Information Systems (GIS) with Multi-Criteria Decision Making (MCDM) methods. Case study in south-eastern Spain Original Research Article
Land Use Policy, Volume 63, April 2017, Pages 86-97
 J.M. Sánchez-Lozano, J.A. Bernal-Conesa
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A GIS-based multi criteria decision analysis approach for exploring geothermal resources: Akarcay basin (Afyonkarahisar) Original Research Article
Geothermics, Volume 67, May 2017, Pages 18-28
 Mustafa Yalcin, Fatmagul Kilic Gul
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Integrating GIS with optimization method for a biofuel feedstock supply chain Original Research Article
Biomass and Bioenergy, Volume 98, March 2017, Pages 194-205
 Fengli Zhang, Jinjiang Wang, Shuhai Liu, Shimin Zhang, John W. Sutherland
 Abstract Research highlights PDF (1751 K)

A GIS-based assessment of Tibet's potential for pumped hydropower energy storage Review Article
Renewable and Sustainable Energy Reviews, Volume 69, March 2017, Pages 1045-1054
 Xu Lu, Siheng Wang
 Abstract PDF (1512 K)

Spatio-temporal challenges in representing wildlife disturbance within a GIS Original Research Article
Environmental Technology & Innovation, Volume 7, April 2017, Pages 44-53
 Greg Wood, Duncan Whyatt, David Hackett, Carly Stevens
 Abstract Research highlights PDF (1216 K)

A GIS-based tool for integrated management of clogging risk and nitrogen fertilization in drip irrigation Original Research Article
Agricultural Water Management, Volume 184, April 2017, Pages 86-95

- 1 Set a Search Alert
- 2 RSS Feed
- 3 Sort Options/Access Right
- 4 Export Citation
- 5 Download multiple PDFs

Search Results

ScienceDirect

The screenshot shows the ScienceDirect search results page for the query "sustainable development". The page includes a search bar, filters, and a list of results. Numbered annotations highlight specific features:

- 1** Search Results: Points to the search bar containing "sustainable development".
- 2** Search Alert (Save & RSS Feed): Points to the "Search results: 225,272 results found." text.
- 3** Search Refine (Limit to or Exclude): Points to the "Refine filters" section on the left, which includes filters for Year, Publication title, and Topic.
- 4** Sorting Option (Relevance/Date and Access Types): Points to the sorting options "Date" and "Relevance" in the top right.
- 5** Access Rights: Points to the "Download PDFs" button.
- 6** Display Article Pages (Show preview | PDF | Recommended Articles): Points to the "See image results" link.
- 7** Download Multiple PDFs: Points to the "Download PDFs" button.
- 8** Export: Points to the "Export" button.

The "Refine filters" section on the left includes:

- Year:** 2017 (601), 2016 (28,771), 2015 (27,385), 2014 (22,629), 2013 (19,372), View more >>
- Publication title:** Renewable and Sustainable Energy Reviews (5,625), Journal of Cleaner Production (5,203), Fuel and Energy Abstracts (5,197), Energy Policy (4,113), Procedia - Social and Behavioral Sciences (4,066), View more >>
- Topic:** energy (9,658), china (6,770)

The "Direct export" section includes:

- Save to Mendeley
- Save to RefWorks

The "Export file" section includes:

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- BibTeX
- Text

The "Content" section includes:

- Citations only
- Citations and abstracts

The "Export" button is located at the bottom of the "Content" section.

1 Search Results

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(Save & RSS
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4 Sorting Option
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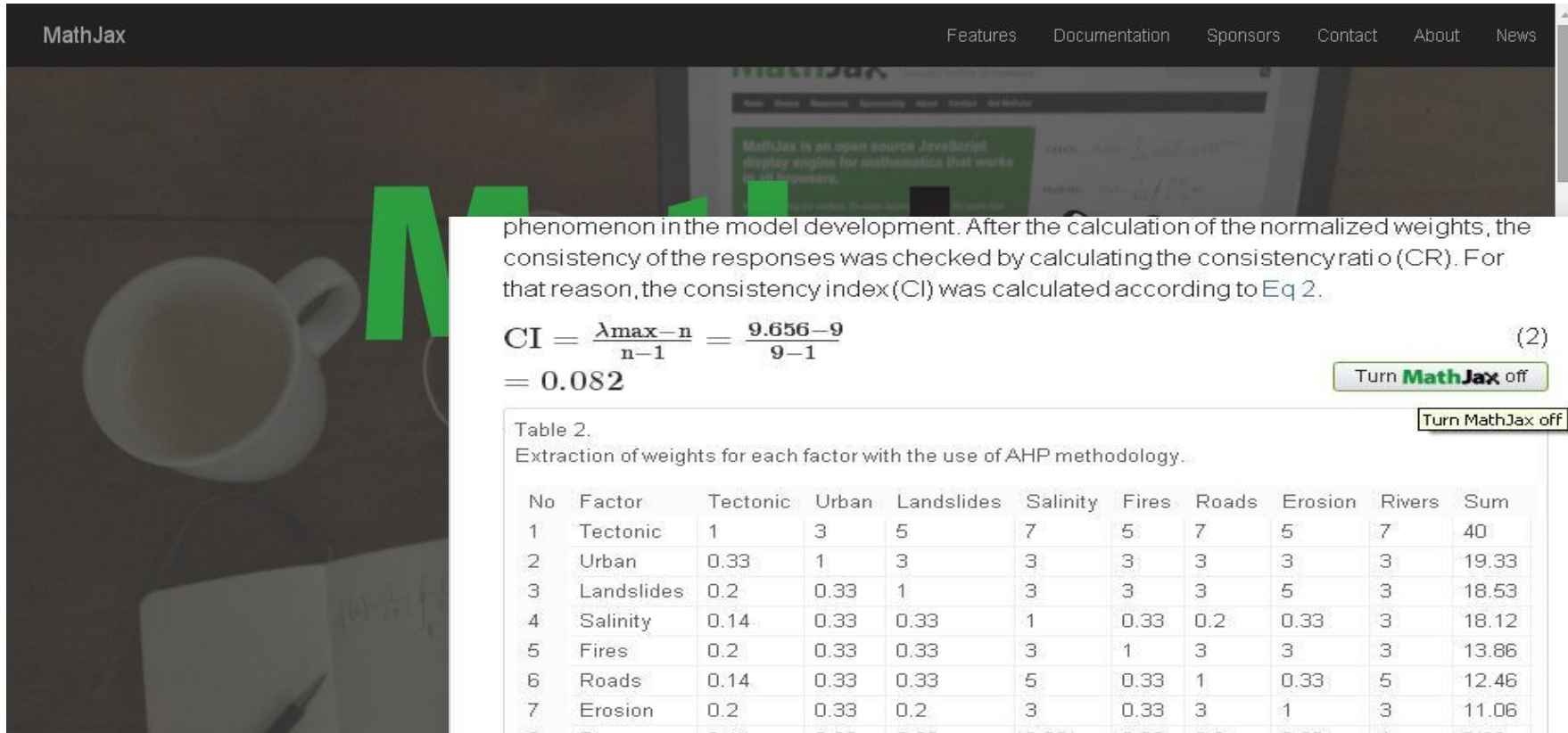
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phenomenon in the model development. After the calculation of the normalized weights, the consistency of the responses was checked by calculating the consistency ratio (CR). For that reason, the consistency index (CI) was calculated according to Eq 2.

$$CI = \frac{\lambda_{max} - n}{n - 1} = \frac{9.656 - 9}{9 - 1} = 0.082 \quad (2)$$

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Table 2.

Extraction of weights for each factor with the use of AHP methodology.

No	Factor	Tectonic	Urban	Landslides	Salinity	Fires	Roads	Erosion	Rivers	Sum
1	Tectonic	1	3	5	7	5	7	5	7	40
2	Urban	0.33	1	3	3	3	3	3	3	19.33
3	Landslides	0.2	0.33	1	3	3	3	5	3	18.53
4	Salinity	0.14	0.33	0.33	1	0.33	0.2	0.33	3	18.12
5	Fires	0.2	0.33	0.33	3	1	3	3	3	13.86
6	Roads	0.14	0.33	0.33	5	0.33	1	0.33	5	12.46
7	Erosion	0.2	0.33	0.2	3	0.33	3	1	3	11.06
8	Rivers	0.14	0.33	0.33	0.33	0.33	0.2	0.33	1	2.99

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Table options

Features & benefits

where λ_{max} is the largest eigenvector and n is the number of criteria used in the study. The final consistency ratio (CR) was estimated through Eq. (3):

$$CR = \frac{CI}{RI} = \frac{0.12}{1.45} = 0.082 \quad (3)$$

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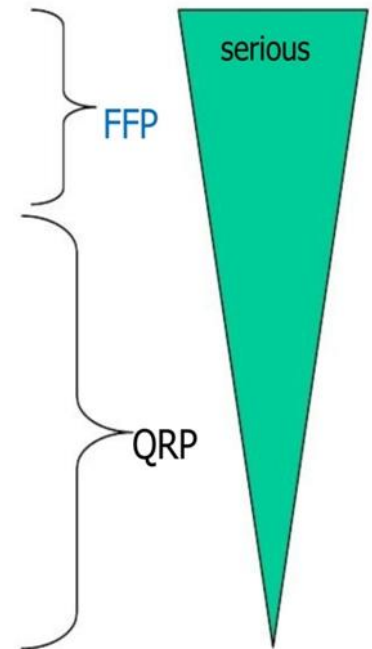
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- Not admitting missing data
- Ignoring outliers
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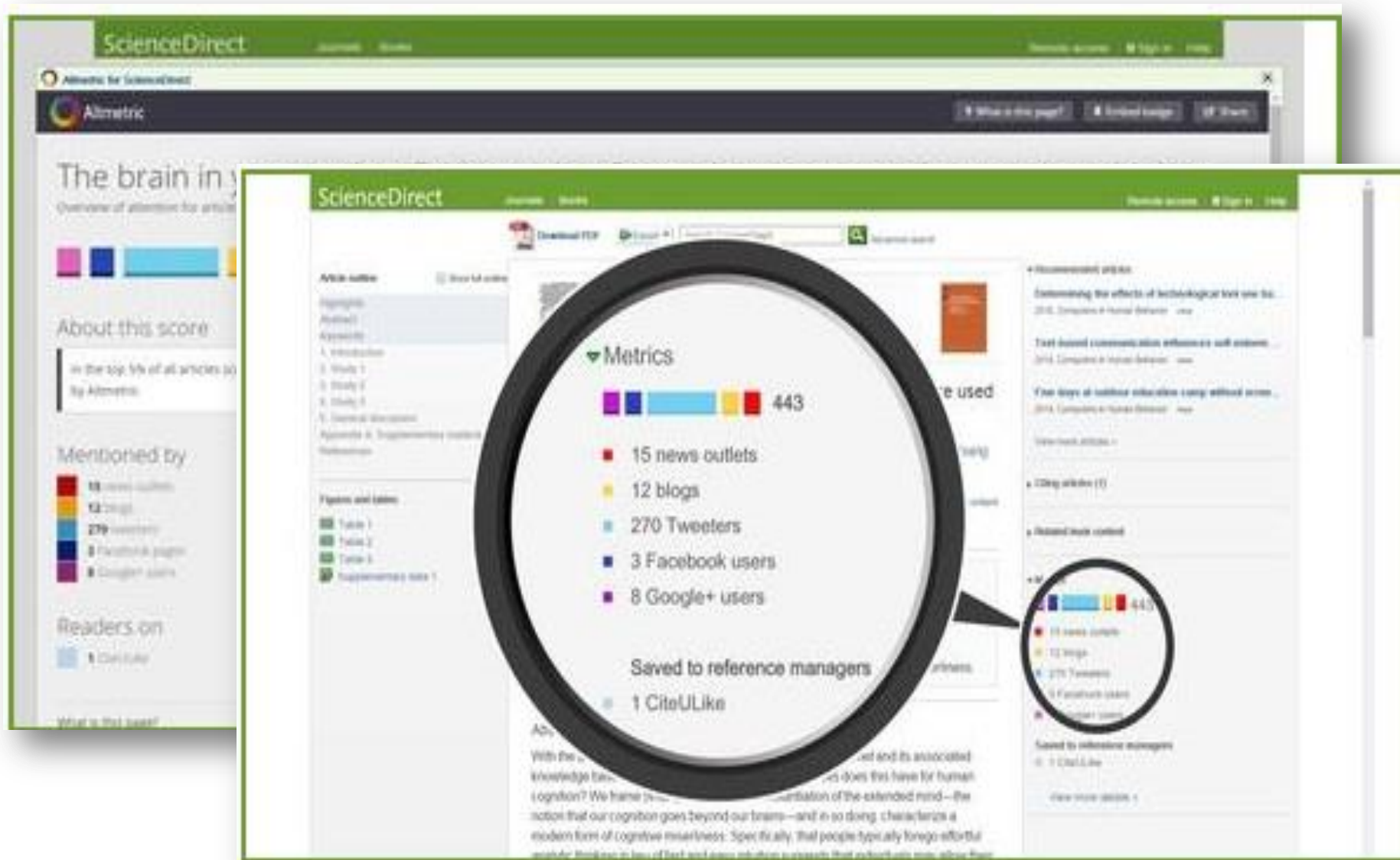
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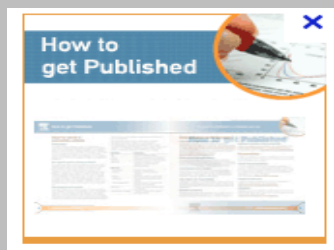


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