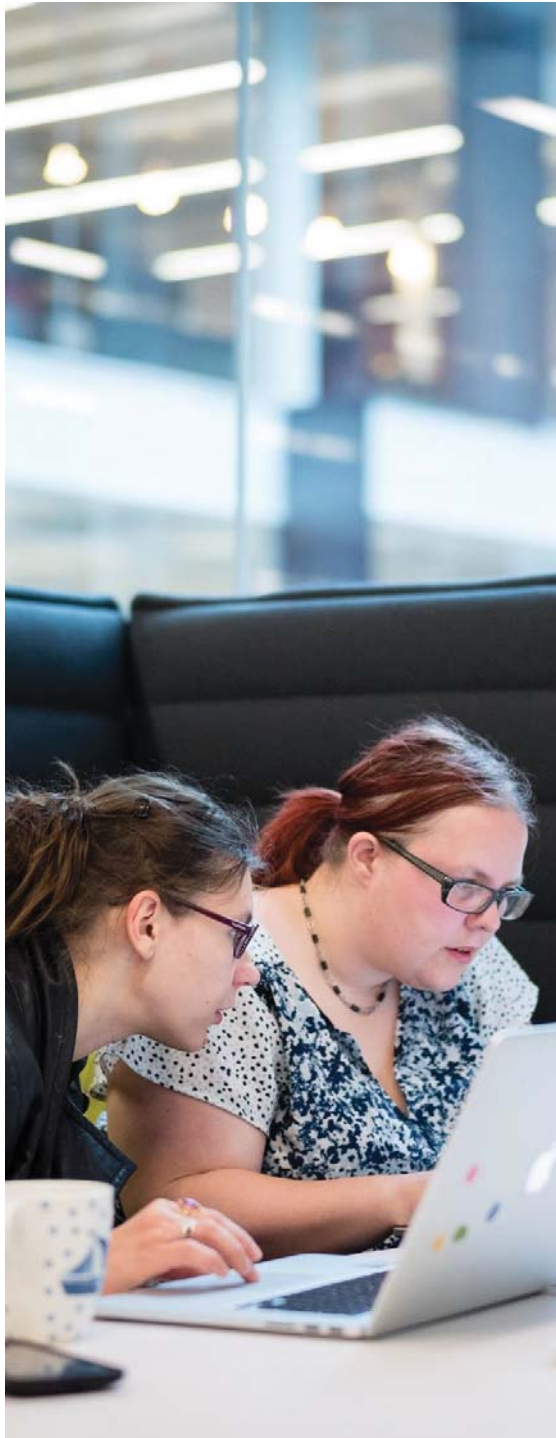


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Nicholas Pak
Solutions Consultant
Research Solutions Sales
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n.pak@elsevier.com

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1,000

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13m monthly users on ScienceDirect

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11 billion facts

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companies updated daily

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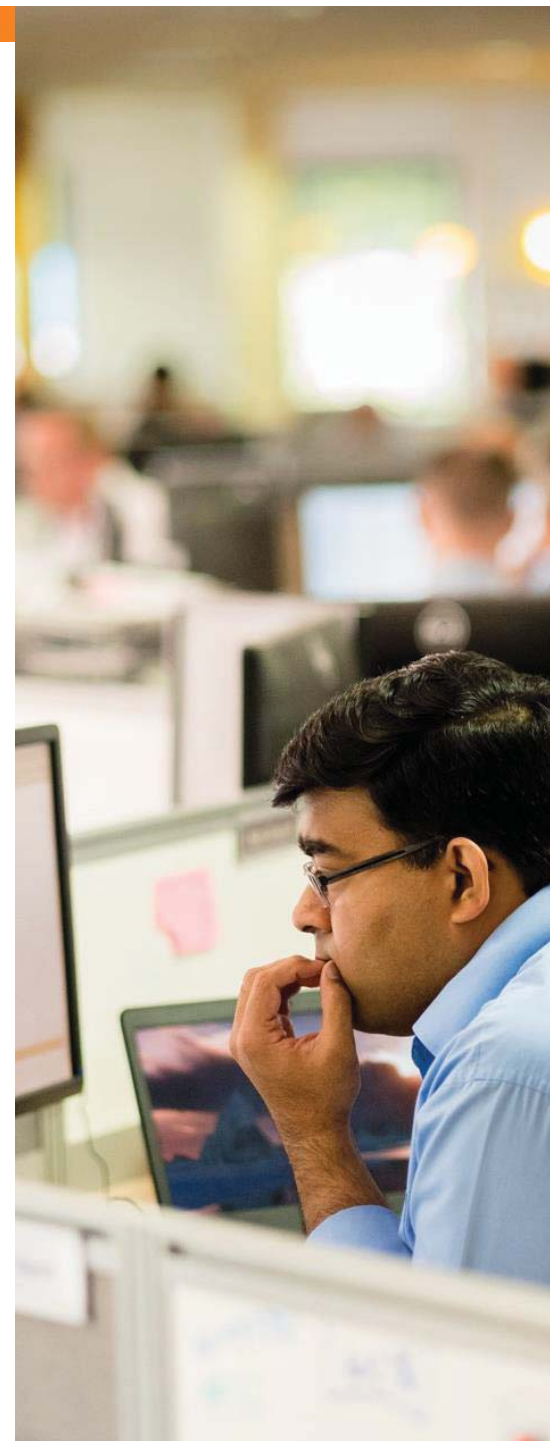
Over 1,000 predictive models trained on 1.5
billion electronic health care events

Research

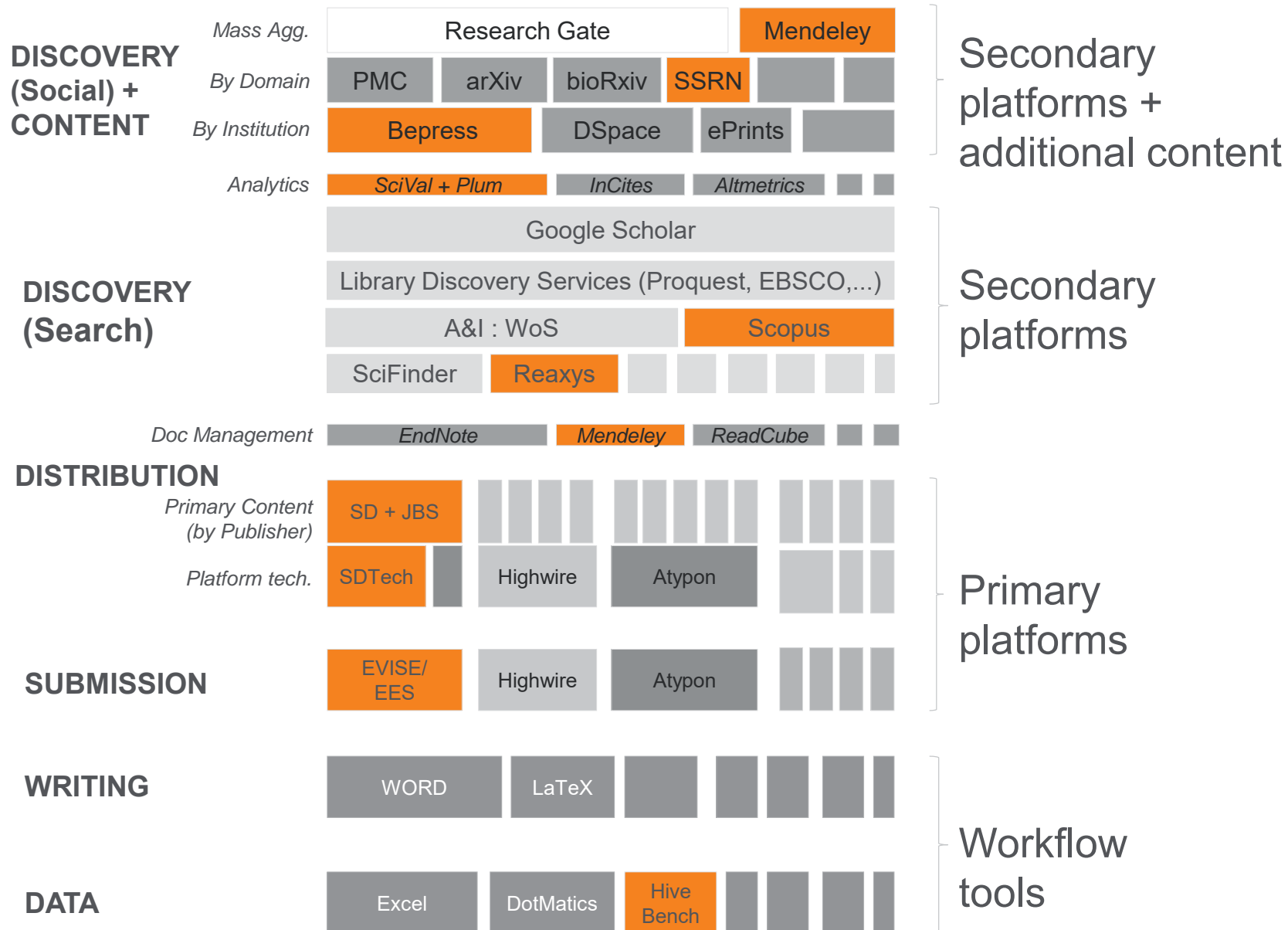
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How Elsevier combines Content with Technology



Researchers today are faced with ever growing volumes of information they need to search, evaluate and incorporate into their work

Keeping up with scientific literature has been described as the single most important skill throughout a researcher's career.*

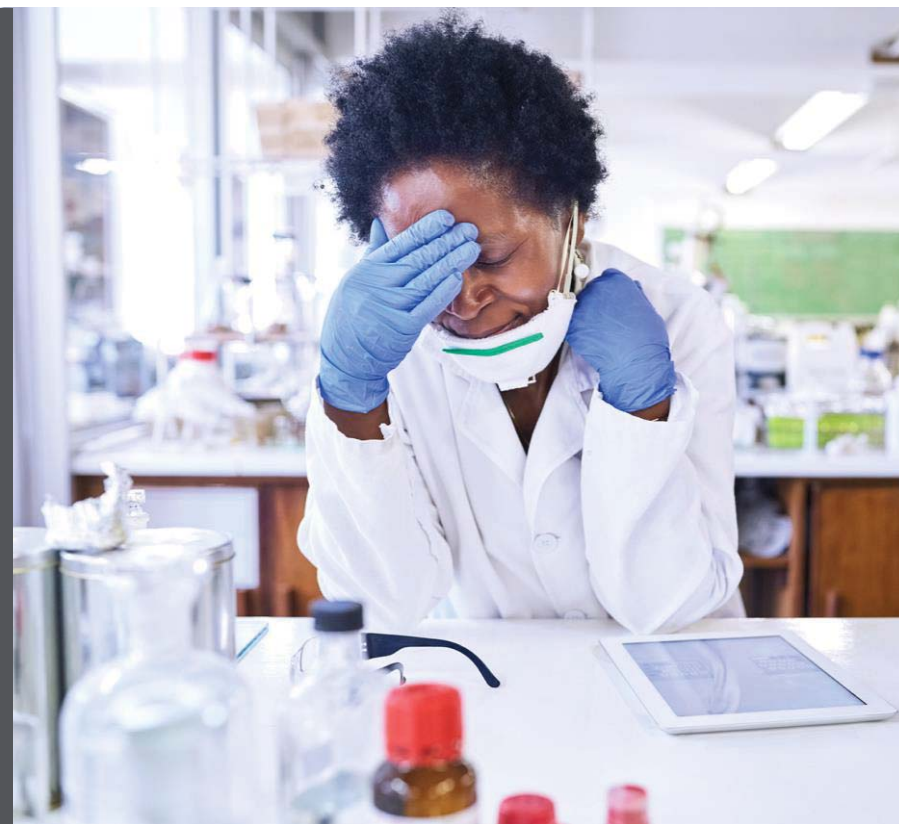
But it's no easy task, as there are 28,100 active peer-reviewed journals and 2.5 million new articles published each year, according to The STM Report.**

This information overload can cause researchers to:

- Lose time combing through resources
- Get frustrated with dead ends
- Become unsure of their next steps

*Source: <http://www.sciencemag.org/careers/2016/11/how-keep-scientific-literature>

**Source: The STM Report, <http://www.sciencemag.org/careers/2016/11/how-keep-scientific-literature>, 2016.





Using Published Literature

Four activities take more than 2 hours per week and are considered highly important but researchers feel well supported. Developing hypotheses is important but researchers feel less supported by tools and resources



Time (in hours): Approximately how much time last week did you spend on the following activities?



ScienceDirect continues to focus on increasing your research effectiveness by incorporating innovative technologies to evolve the information discovery and management needs of researchers

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novel science**



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over **15M** publications
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books from Elsevier, our
imprints and our societies.

IMPACT

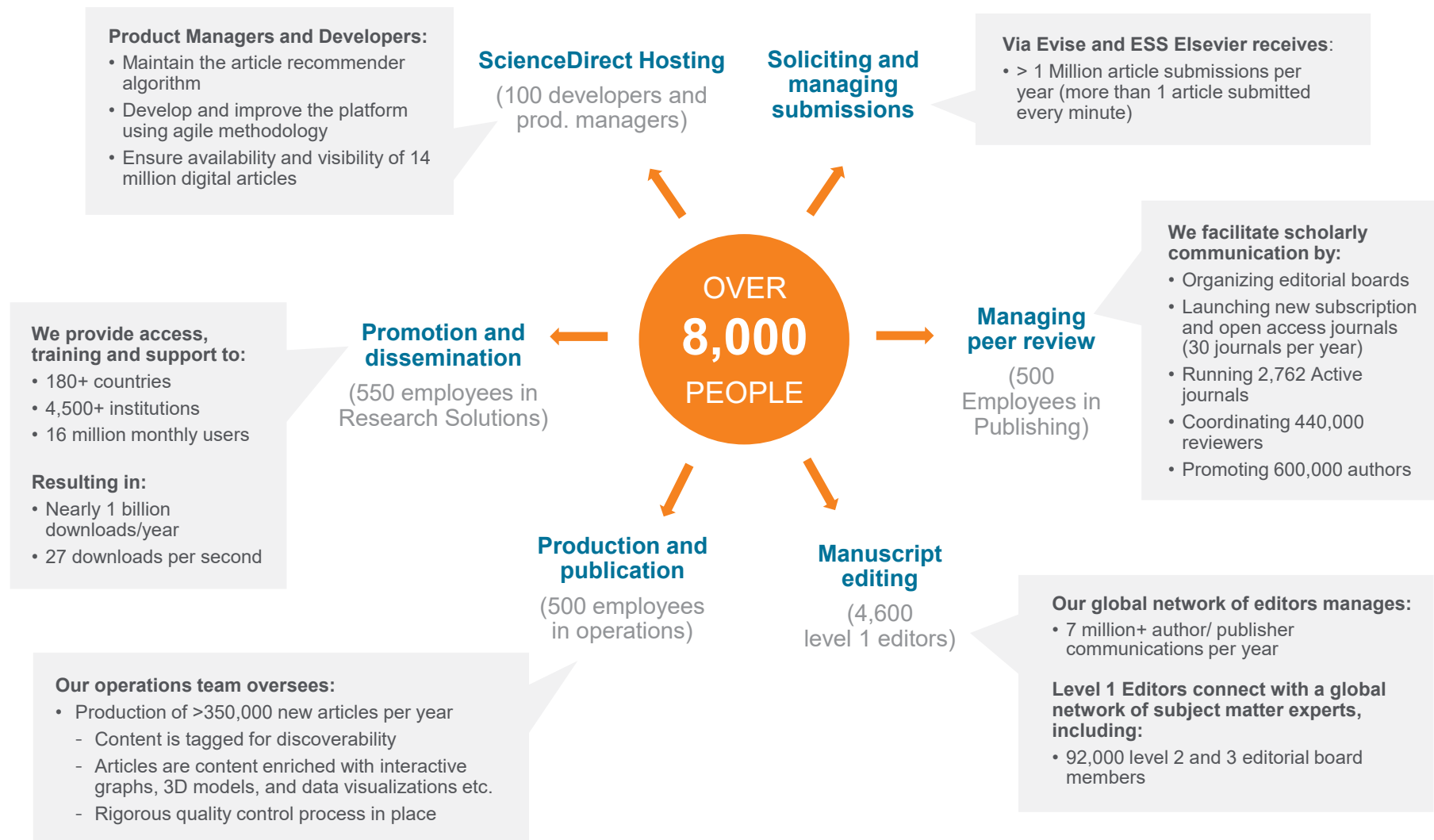
**71% of our journals increased their
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A 10% increase from 2016, with the number of
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from 71 to **76**.

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**Of the top 5% cited articles,
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What's behind ScienceDirect?



Attracting and Managing Quality, Global Submissions



5 Year CAGR: 2012-2016

Articles Submitted	9.50%
Articles Published	5.03%

*Figures for all Elsevier Journals

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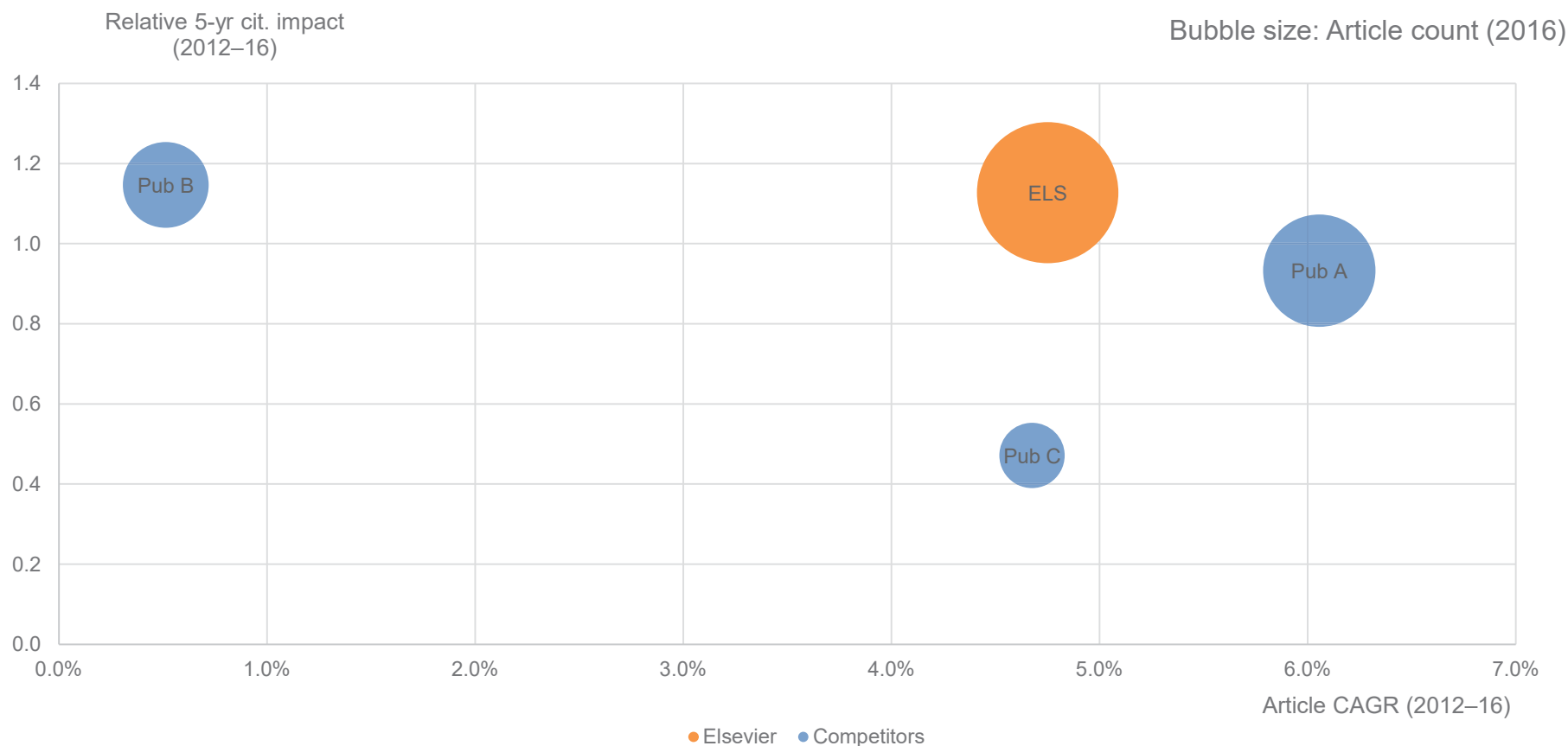
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Impactful Research

ScienceDirect

All Subjects (2012 – 2016)



Largest Repository of Growing, Quality Content

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- Comprises 24.6% of global article content alone in 2016
- Provides 27% of global references in 2012 - 2016
- FWCI of 1.13 in 2012 - 2016
- More than 58.1% more articles than next largest publisher



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ScienceDirect Impact Factor - No.1 Journal in 76 Subjects



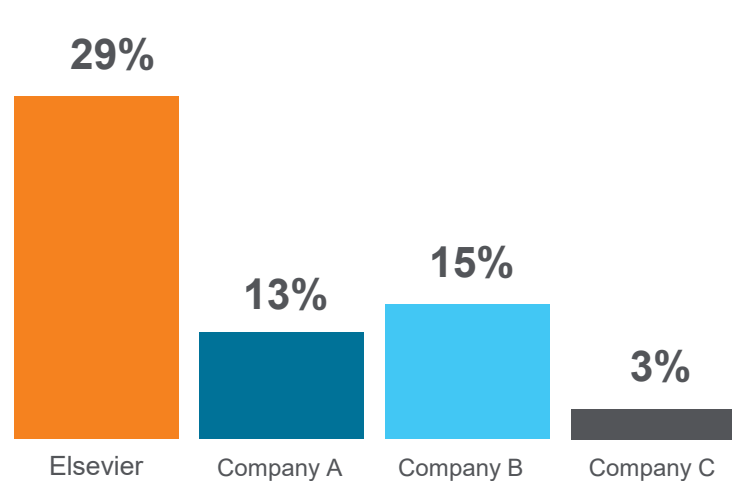
No.1 in 76 categories out of 234
Top 3 in 197 categories out of 702
Top 5 in 333 categories out of 1,171

Source: Clarivate Analytics Journal Citation Reports 2016

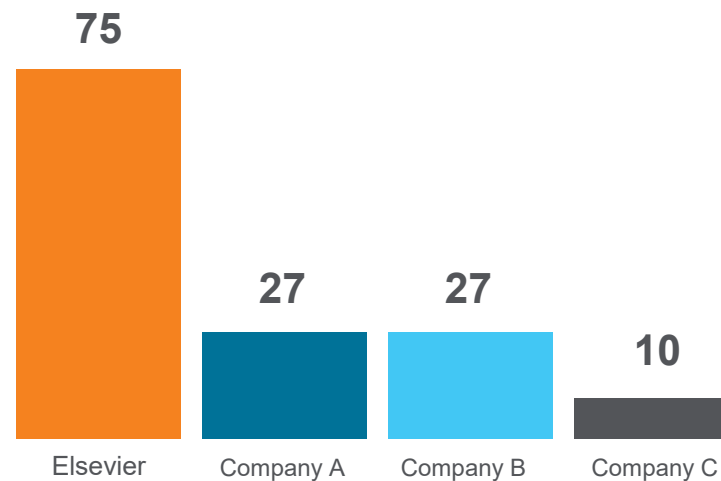
ScienceDirect Impact Factor - No.1 Journal in 76 Subjects

Journal ranking—Impact Factor

Share of top—10% journals

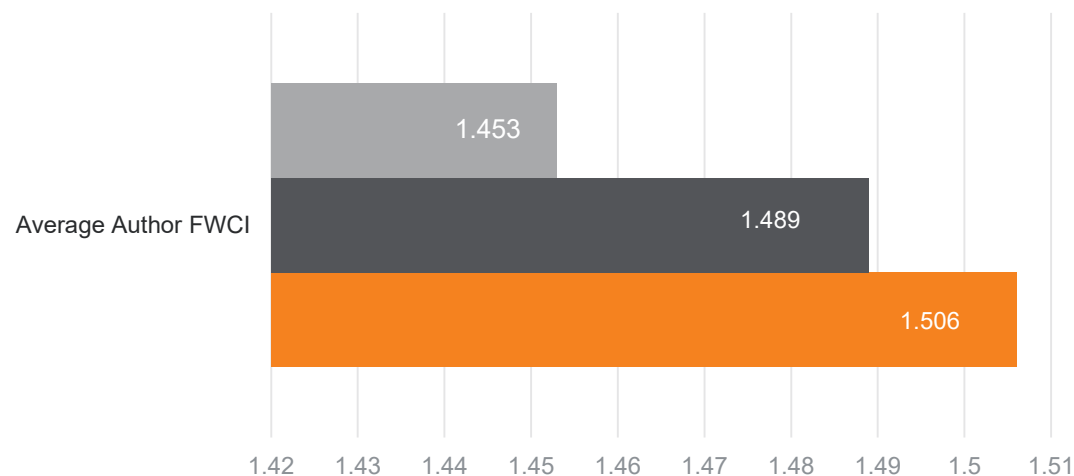


Subjects with top rank
(Journal Citation Reports)

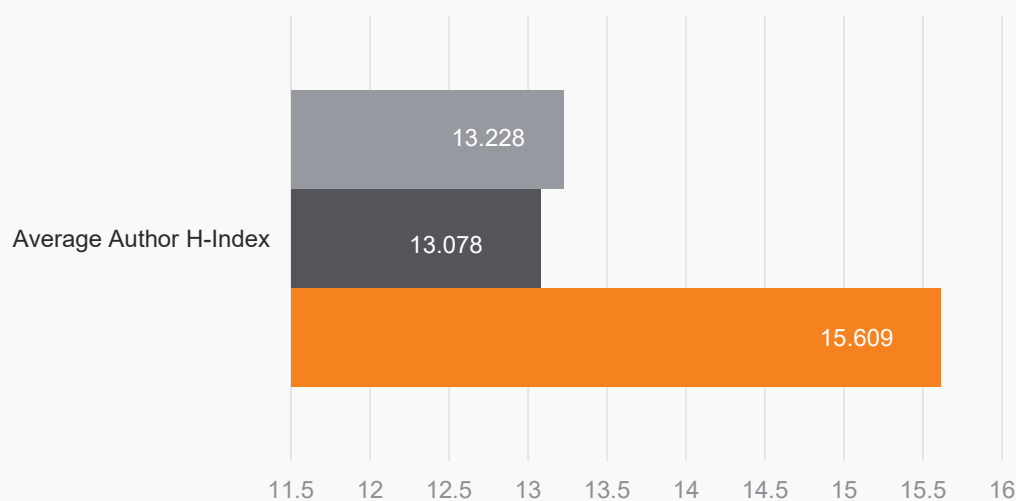


Journal ranking by Journal Impact Factor across 234 subjects per Clarivate's Journal Citation Reports database; source: Clarivate data (2016)

The World's Best Researchers



Publisher	Authors	Average Author FWCI
Publisher A	1,034,646	1.453
Publisher B	1,716,325	1.489
Elsevier	2,719,232	1.506



Publisher	Authors	Average Author H-Index
Publisher A	1,034,646	13.228
Publisher B	1,716,325	13.078
Elsevier	2,719,232	15.609

Quiz

- How many subjects categories in Journal Citation Reports is Elsevier number 1 of?



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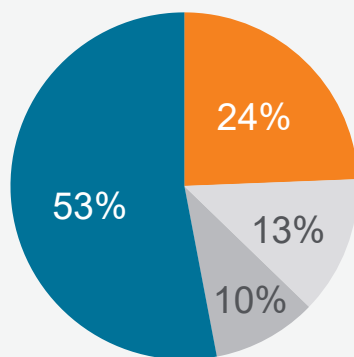
CITE



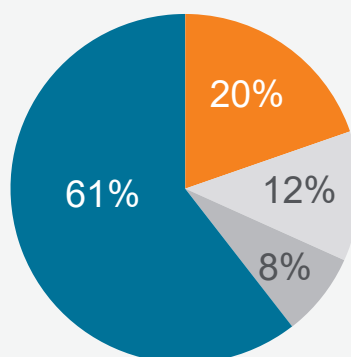
In the last 5 years:

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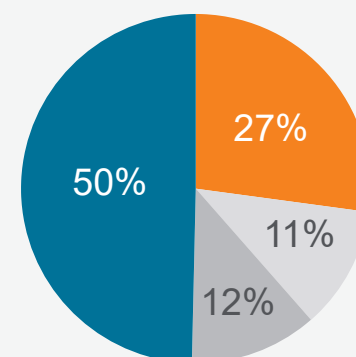
Disseminate



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Elsevier Pub. A Pub. B Others



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ScienceDirect is incorporating innovative technologies to evolve the information discovery and management needs of researchers

Researchers can benefit from ScienceDirect technology improvements in multiple ways:

To help uncover new research

to identify patterns and connections between content that might have been otherwise overlooked, ScienceDirect is enhancing its advanced data analytics and machine learning capabilities to deliver researchers the information they need, when they need it



To deliver search results that are more relevant

and delivered faster than ever before, ScienceDirect is expanding its browse and search functionalities



To provide a best in class user experience

which is personal, secure, and fast, ScienceDirect is creating customizable settings and annotation features so that researchers can tailor their workspace to fit their needs



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We focus on 3 key areas to ensure the best possible customer experience:



Better performance

Optimized architecture for journal homepages ensures pages load within 1 second



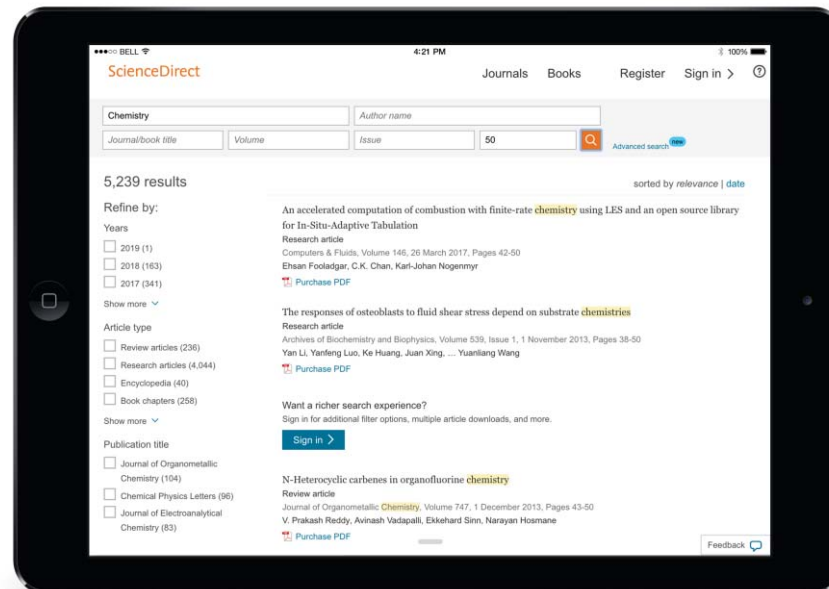
100% results

The most relevant information is prioritized (latest articles and issues, articles in press, special issues, alerts and journal information)



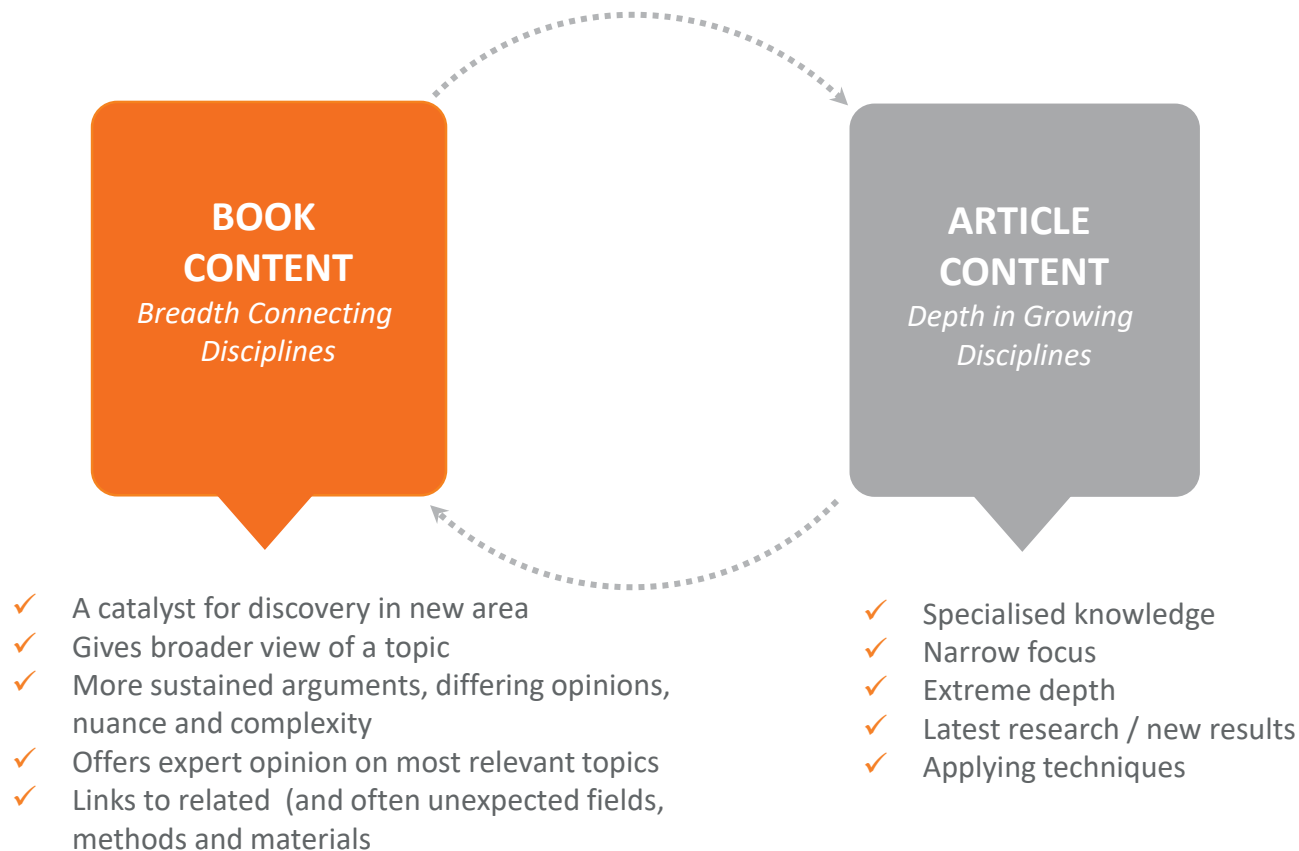
Ease of use

A modern and clean look on any screen size with each journal instantly recognizable to the user thanks to custom colors

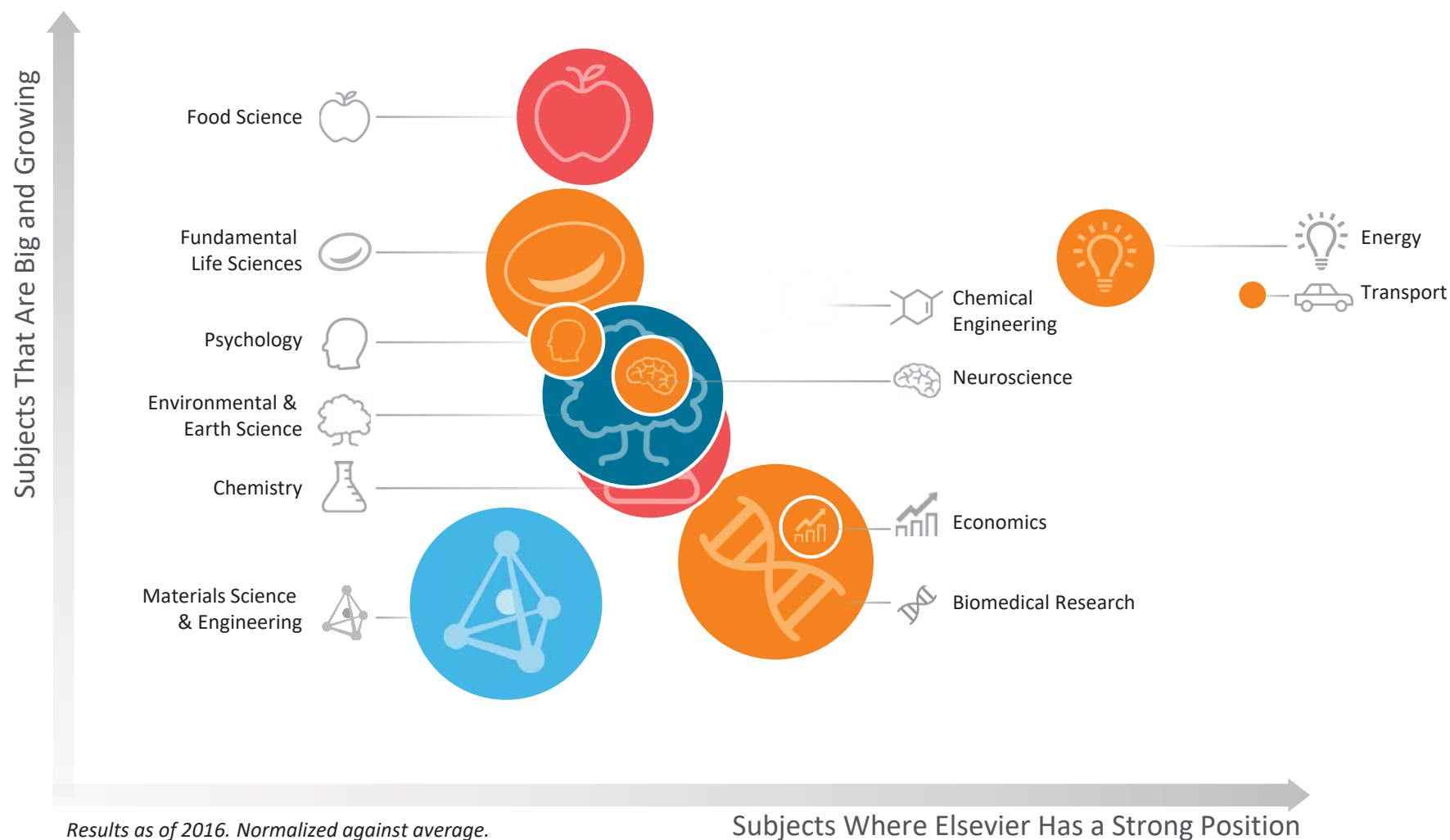


eBook content is a critical complement to journal content

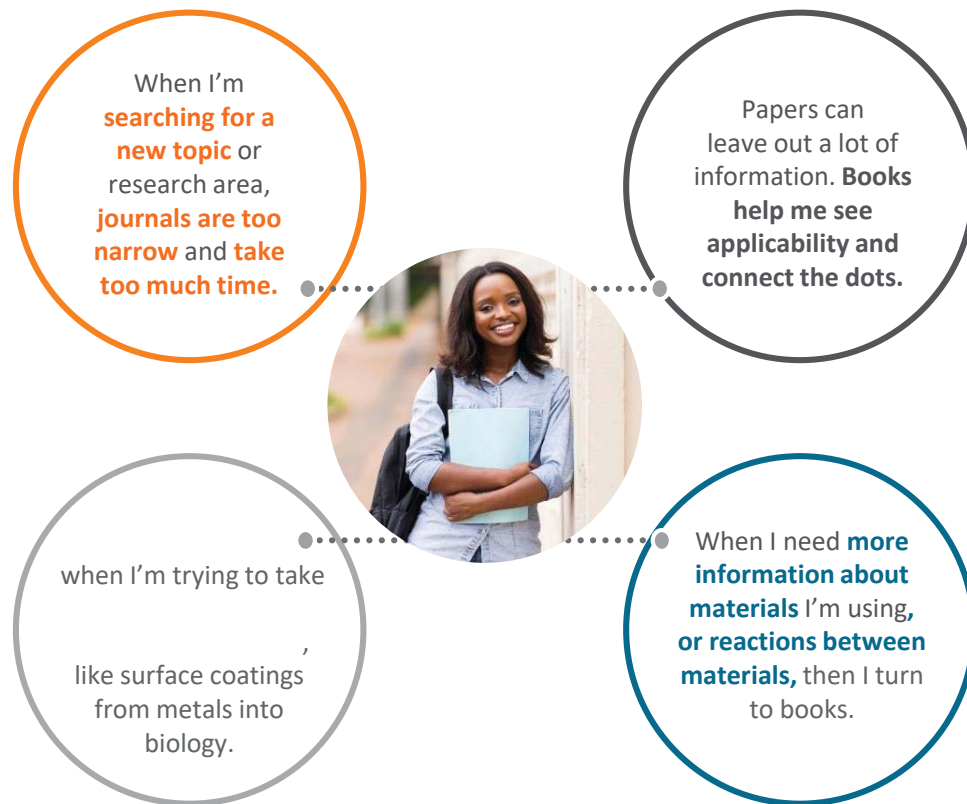
Books and journal articles provide different types of content, but for this reason they are fundamentally interlinked: **researchers/students need both to build their knowledge around a topic.**



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



Usage data shows books and journals are used together



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“ eBooks are part of a comprehensive whole which includes journals and other information resources.

— Librarian, State & Local Government

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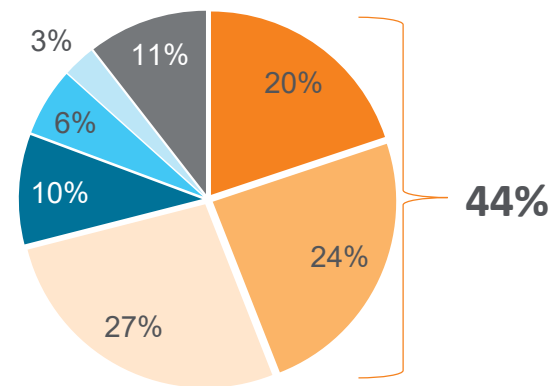
“ Oftentimes a book will provide an in-depth review of a theory or research approach that just isn't possible in a single journal article.

— Researcher, Educational Institution

Researchers are often working in interdisciplinary fields

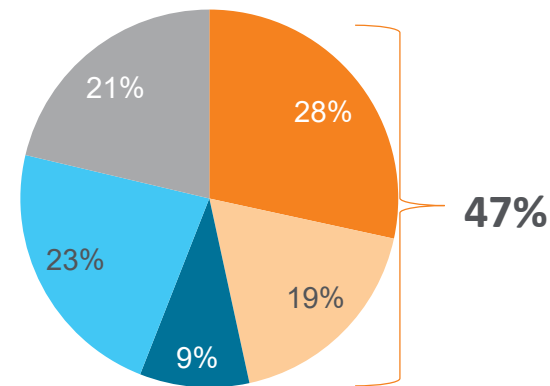
Understanding User Needs & Behaviour and Identifying Core Use Cases

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



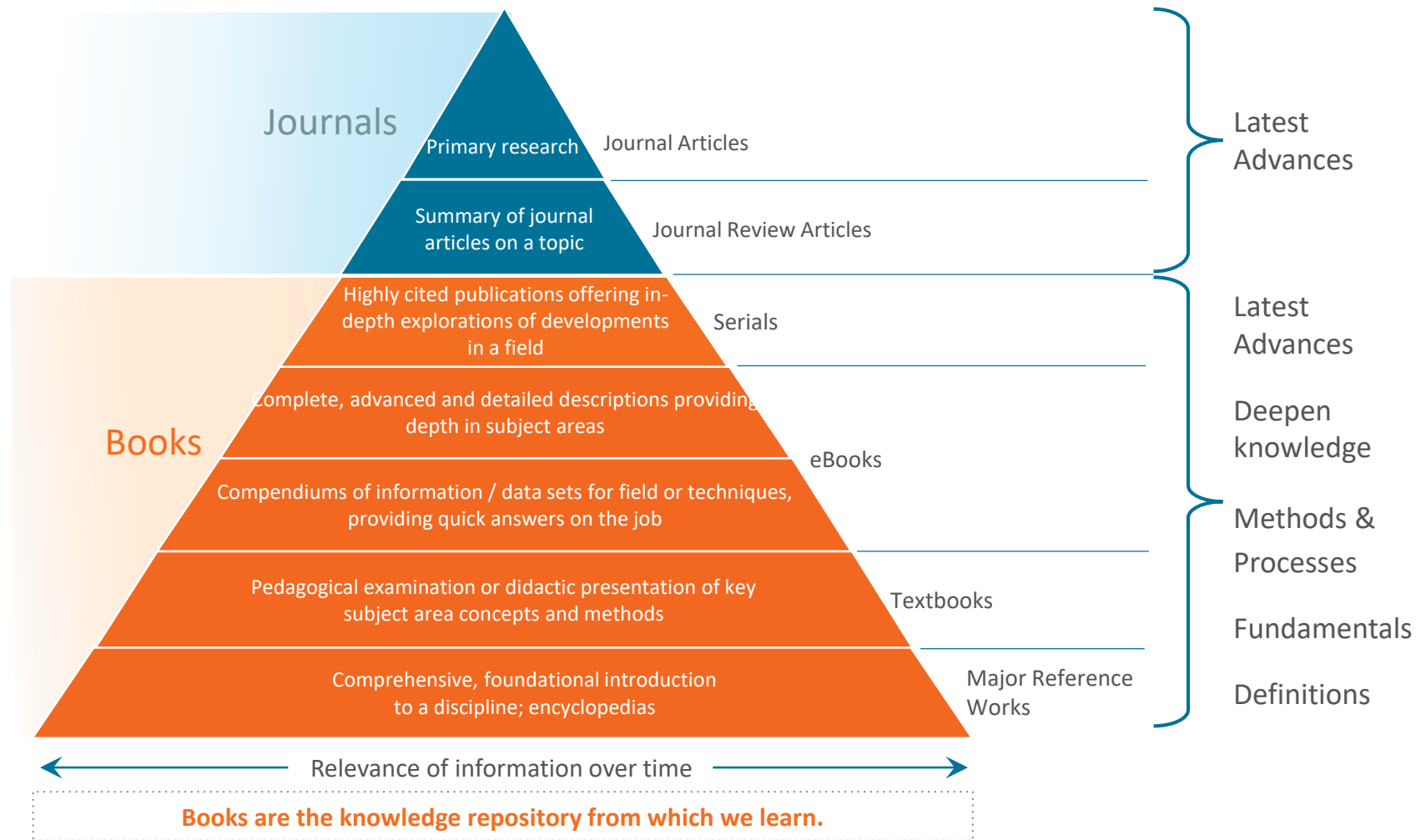
- Several times a week
- Around once a week
- Around once or twice a month
- Once every 2-3 months
- Once every 6 months
- Less often/never

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

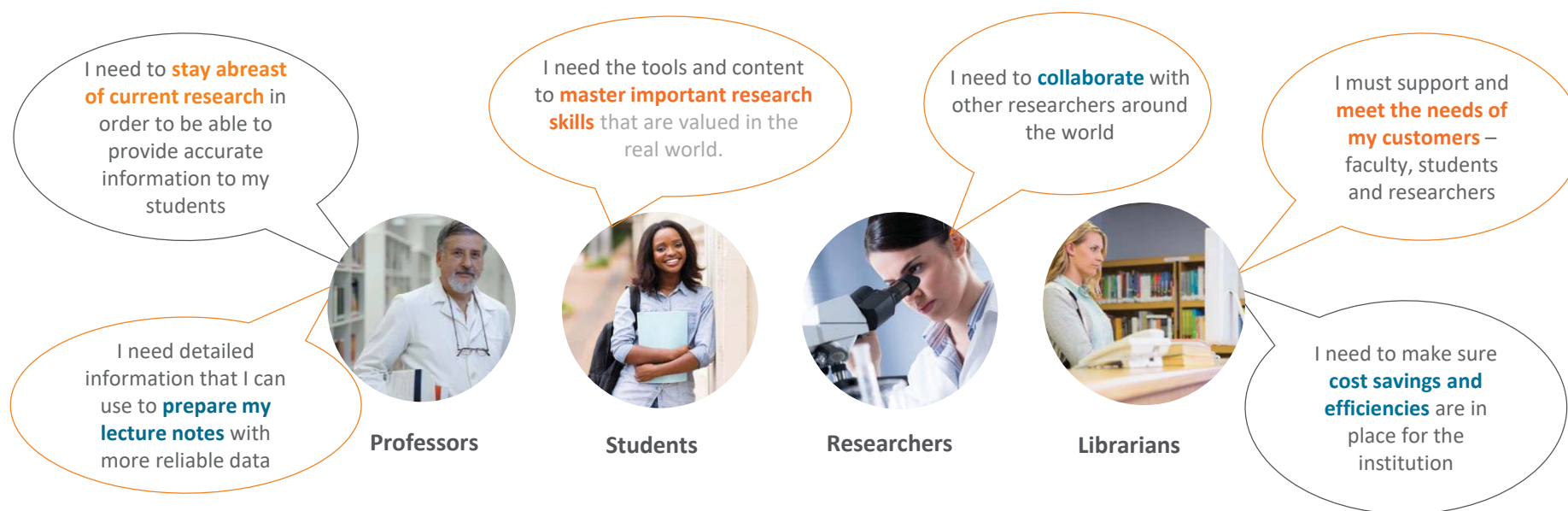


- At least once every 6 months
- Once a year
- Once every 2-3 years
- Less often/never
- It varies

Researchers Need Different Content Types for Different Steps in Their Workflow



Exploring Literature Needs



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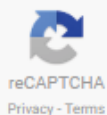
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Nicholas Pak  

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- A specific article by publication/ vol./ issue/ page search

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The ScienceDirect Advanced Search provides multiple options for more precise information search

#	Feature	Old advanced search	New advanced search
1	Number of field combinations using Boolean AND, OR, NOT	▲ Supports only 2 field combinations	✓ Supports 11 fields that can be combined by Boolean AND & NOT. In future, this will grow to >15
2	Number of Boolean operators	▲ Supports only one operator	✓ Supports unlimited number
3	Nested clauses using parentheses()	✗ Not supported	✓ Supported
4	Exclude operator: minus-hyphen	✗ Not supported	✓ Supported
5	Search for DOI	✗ Not supported	✓ Supported
6	Helpful messages when user makes a mistake	✗ Not supported	✓ Supported
7	In-place editing of advanced search	✗ Not supported	✓ Supported. Easy-to-use UI
8	Quick filtering using left-pane facets	✗ Very slow. Not dynamic	✓ Fast filtering. Dynamic UI
9	Auto-suggestions for journals & books	✗ Not supported	✓ Supported
10	Page performance & response times	✗ Very slow (5 -15 seconds)	✓ Fast response (1-2 seconds)
11	Quality of results	▲ Good	✓ Better Improved by intelligent query handling, better validation and fewer zero results
12	Filter by article types	▲ Limited support Supports only 11 types	✓ Extensive support Supports up to 24 article types
13	Downloading of multiple PDFs on page	▲ Supports only max 20 PDFs	✓ Max 100 PDFs
14	Filter by content type (Journal / Books)	▲ Supported but confusing UI	✓ Supported via article type filters
15	Filter by Subscribed publications	▲ Present but does not work	▲ Coming soon: Feb 2018
16	Filter by subject area category	▲ Present but doesn't work well	▲ Much improved subject area search coming in Q3 2018
17	Multi export of citations	✓ Supported	▲ Coming soon: Mar 2018
18	Display graphical abstracts & highlights	✓ Supported	▲ Coming soon: Mar 2018
19	Search within References	✓ Supported	▲ Coming soon: Mar 2018
	Note: this feature is used by less than 0.3% of advanced search users		
20	Search within Author Affiliation	✓ Supported	▲ Coming soon: Mar 2018
	Note: this feature is used by less than 0.2% of advanced search users		
21	Set-up new email alerts for search	✓ Supported	▲ Coming in Q2-Q3 2018

Search Functionality

- **Choosing Search Terms**

- Use specific search terms that are closely related to your research topic
- Include alternative words and abbreviations
- Avoid words that are too general

- **Use Boolean Operators**

- **AND**

- Finds documents that contain ALL of the terms
- Use this when the terms must appear and may be far apart from each other
- Example: “Geographic Information System” AND urban sustainability

- **OR**

- Finds documents that contain any of the terms
- Use OR when at least one of the terms must appear (such as synonyms, alternate spellings, or abbreviations)
- Example: micromouse OR picomouse
- Example: “S. W. Hawking” OR “Stephen W. Hawking” OR “Stephen Hawking”

- **NOT**

- Excludes documents that include the specified term from the search
- Use NOT to exclude specific terms. This connector must be used at the end of a search.
- Example: “particle collisions” AND NOT theoretical

- **Users can combine terms using Boolean operators AND, OR and NOT.**

- Users can also group terms using parentheses; multi-level nested clauses are supported.
 - Example: (“black hole” OR radiation) AND gravity

Search Functionality

- **Precedence Rules**

- NOT takes precedence over AND which takes precedence over OR. i.e., NOT>AND>OR.
 - Example: Tesla AND “self-driving cars” OR “self-driving vehicles” (309 results) works, but not “self-driving cars” OR “self-driving vehicles” AND Tesla (664 results)

- **Finding Variations of a Word**

- To search for an specific phrase, enclose the phrase in inverted commas: “South East Asia”
- Using the singular form of a word finds the singular, plural, and possessive forms of most words
- Special characters are included in the search
- Subscript and Superscript: enter subscripted and superscripted characters on the same line as other characters.
 - Example: for the chemical notation “H₂O,” enter H2O
- Accented Characters: To search for the name Fürst, enter Fürst or Furst.
- Non-alphanumeric Characters: Characters such as hyphens, bullets, arrows, plus signs, and minus signs are ignored unless they are enclosed in brackets.

- **Wildcard Characters**

- Use wildcard characters to search for variations of a word
- Asterisk (*) replaces multiple characters anywhere in a word; it can be used to replace 0 and more characters: Optim* [NOTE: This will be supported in Q3-Q4 2018.]
- Users can exclude terms by using the minus-hyphen operator. For example, to find articles related to depression but not economic depression, search for: depression -economics
- To find all articles authored by Heisenberg but not by Sommerfeld, enter the following in the ‘Authors’ search box: Heisenberg -Sommerfeld

Exercise

- **Sustainable Urban Development and Transportation**

- 83,247 Document Results – Search for “Sustainable Development”
- 30,563 Document Results – Search for “Sustainable Development”, use the AND Boolean modifier, and include “Transport*”
- 1,109 Document Results – Search for “Sustainable Urban Development”, use the AND Boolean modifier, and include “Transportation”

- **Socio-Culturalism in Financial Inclusive Institutions**

- 15 Document Results – Search for “Financial Inclusion”, use the AND Boolean modifier and include “socio-culturalism”

- **Integrated Agricultural and Water Resources Management Models**

- 8 Document Results – Search “Water Resource Management”, use the AND Boolean modifier, and include “Agricultur*”

For more details: https://service.elsevier.com/app/answers/detail/a_id/25974/supporthub/sciencedirect/

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Journal and book-series alerts

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A Journal alert notifies you by email when a new issue or new articles in press of a particular journal or a new volume of a particular book series or handbook series becomes available on ScienceDirect.

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Alert name 	Frequency 	Actions	Content view	RSS
Biomedical Engineering	Weekly	Delete	<ul style="list-style-type: none">Latest resultsArchive/Details	
Civil Engineering	Weekly	Delete	<ul style="list-style-type: none">Latest resultsArchive/Details	
Computational Methods	Weekly	Delete	<ul style="list-style-type: none">Latest resultsArchive/Details	
... 3 more topics ...				
<input type="checkbox"/> Control Engineering	Weekly	<ul style="list-style-type: none">Latest resultsArchive/Details 		
<input type="checkbox"/> Electrical Engineering	Weekly	<ul style="list-style-type: none">Latest resultsArchive/Details 		
<input type="checkbox"/> Electronic Engineering	Weekly	<ul style="list-style-type: none">Latest resultsArchive/Details 		



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Search all fields

Author name

Journal or book title

Volume

Issue

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Advanced search

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Alert name 	Frequency 	Actions	Content view	RSS
Automated Ignition System	Weekly	Edit alert Edit email Edit search Delete	<ul style="list-style-type: none">• Latest results• Archive	

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Learning deep representations via extreme learning machines

Original research article • Neurocomputing • Volume 149, Part A • Pages 308-315 • 3 February 2015

Wenchao Yu, Fuzhen Zhuang, ... Zhongzhi Shi

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Original research article • Journal of Parallel and Distributed Computing • Volumes 79-80 • Pages 3-15 • May 2015

Marcos D. Assunção, Rodrigo N. Calheiros, ... Rajkumar Buyya

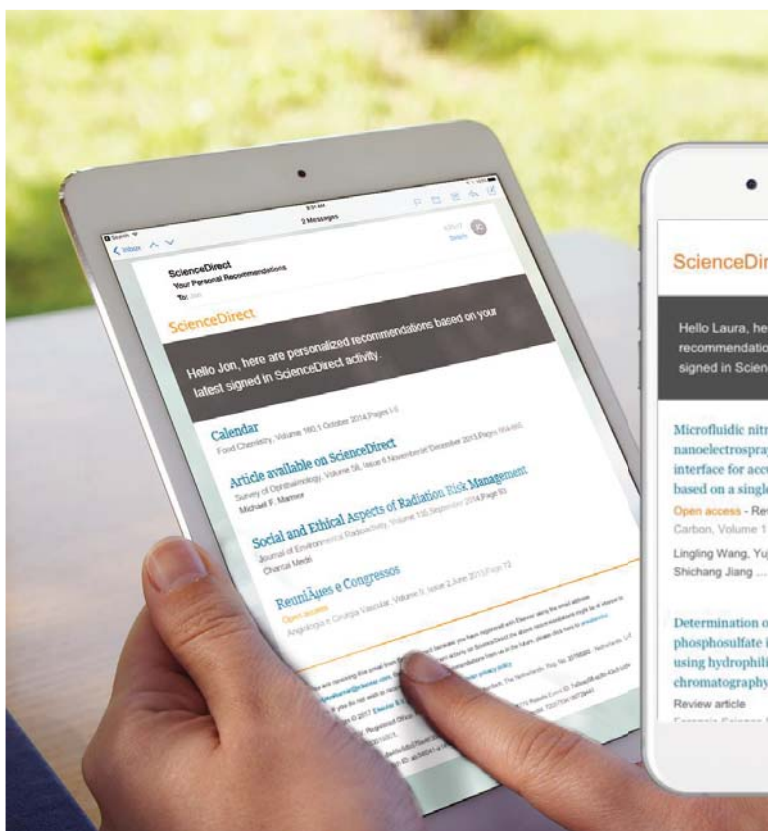
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Original research article • Open access • Journal of Business Research • Volume 70 • Pages 263-286 • January 2017

Uthayasankar Sivarajah, Muhammad Mustafa Kamal, ... Vishanth Weerakkody

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Carbon, Volume 116, May 2017, Pages 293-311
Lingling Wang, Yujiao Wang, Shichang Jiang ... Bo Xiong

Determination of 3'-phosphoadenosine-5'-phosphosulfate in cells and Golgi fractions using hydrophilic interaction liquid chromatography-mass spectrometry

Review article
Genetics, Volume 28, May 2017, Pages 52-70
Kareem Dowood, Ravi Adusumali, Emil Tykesson ... Steven Ray Wilson

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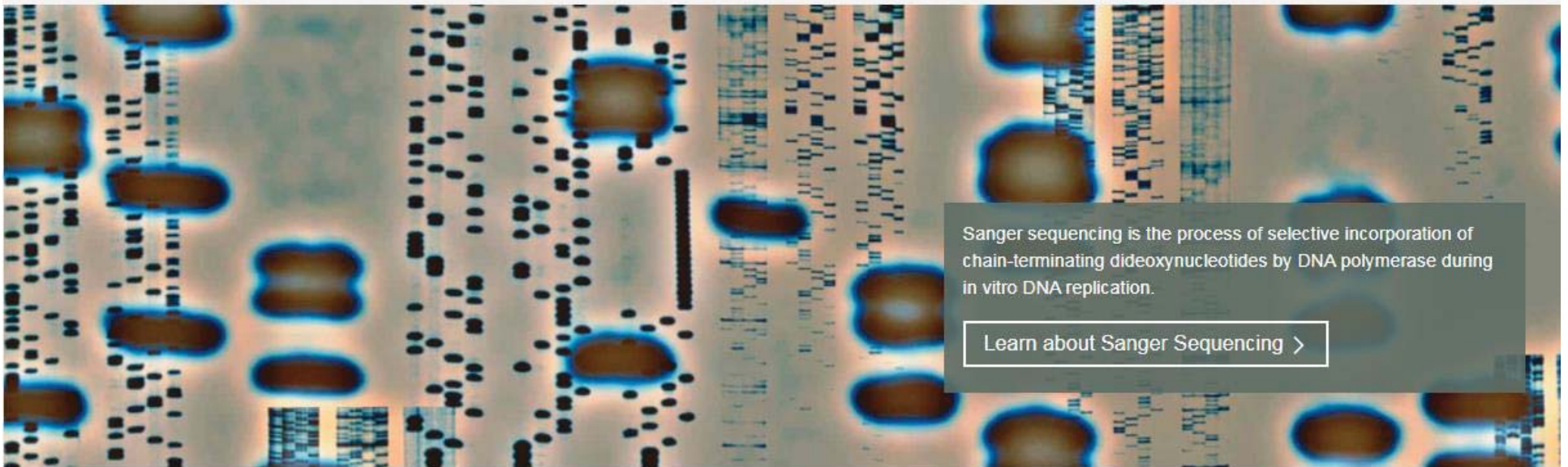
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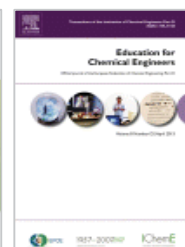
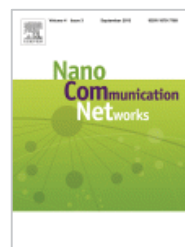
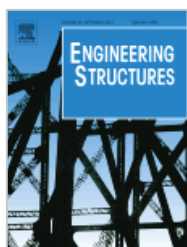
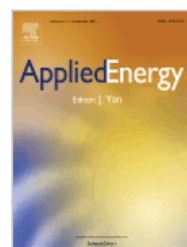
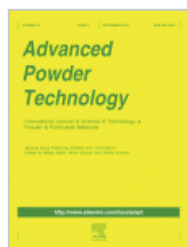
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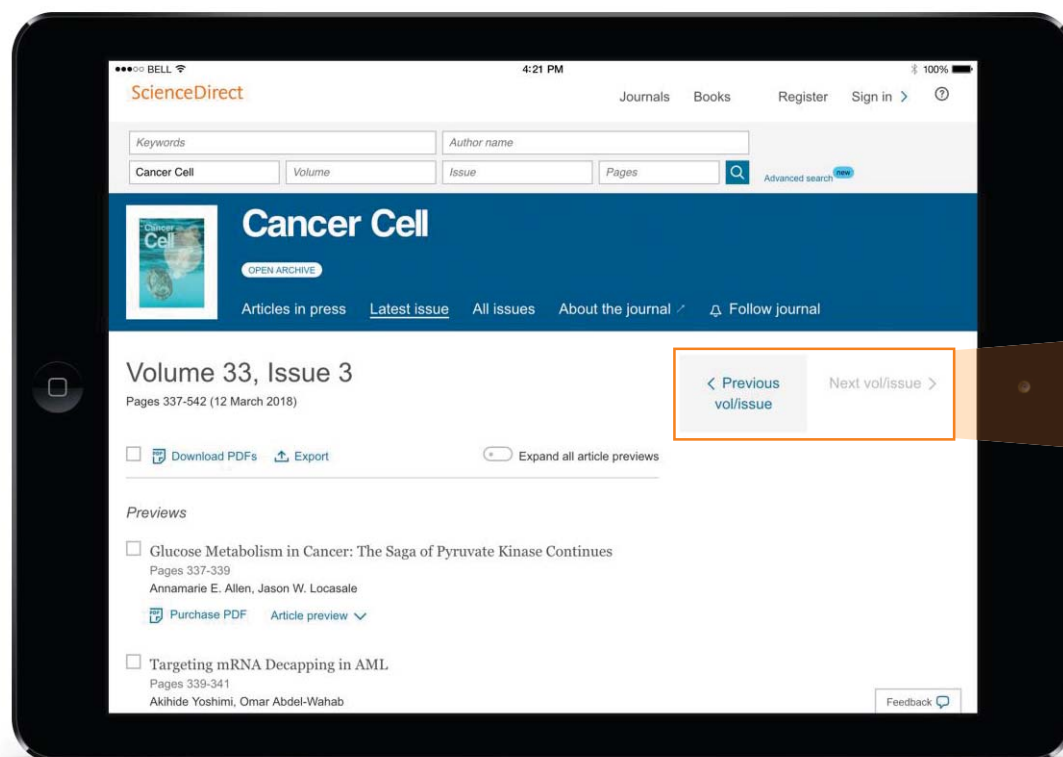
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Critical Perspectives on Accounting, Volume 48, October 2017, Pages 21-34

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future scholarship; and an exploration of how we might conceptualise 'engagement' with practice in this context (and what is meant by practice and practitioner). Taken together, this paper seeks to provide points of provocation and encouragement to social and environmental accountants, critical accounting scholars and to those seeking to understand sustainable development scholarship and action.

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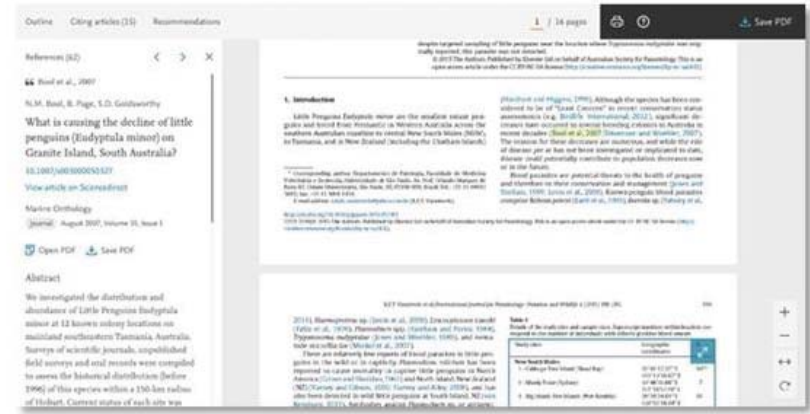
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3 Expert Systems with Applications

4 A fuzzy linguistic ontology payoff method for aerospace real options valuation

James A. Rodger

MIS and Decision Sciences, Eberly College of Business & Information Technology, Indiana University of Pennsylvania, 664 Pratt Drive, Indiana, PA 15705, USA

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Abstract

In this paper, we present a fuzzy linguistic ontology payoff method for the valuation of real options. In this paper, we apply the fuzzy linguistic ontology and the credibilistic fuzzy logic to obtain a multi-scenario modeling process by envisioning three scenarios: optimistic, most likely, and pessimistic. In addition, our experience with the scenario estimates is premised on results in an operating profit forecast. This forecast corresponds to a plausible outcome within the aerospace licensing maintenance, repair, and overhaul market and provides a decision-making tool. This tool can be utilized for determining real options for project valuation of aerospace licensing revenues based on unit costs, recurring costs, and quantity of units sold.

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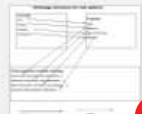
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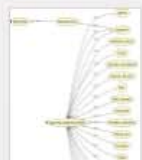
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1



that a particular facility has a Quantity_Of instance relating a particular item with a specific number. It is also necessary to be able to associate each air base with an ordered list of remote supply facilities available to provide additional parts. We further develop the supplier network by identifying the participating suppliers that will contribute to the costs and quantity of parts involved in the manufacturing and maintenance of the aircrafts as seen in Fig. 3.

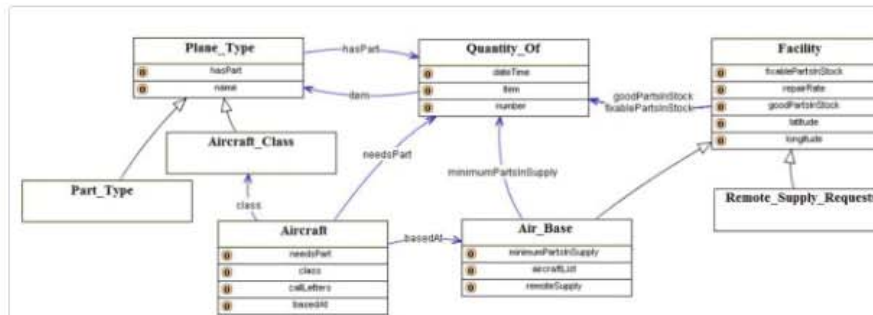


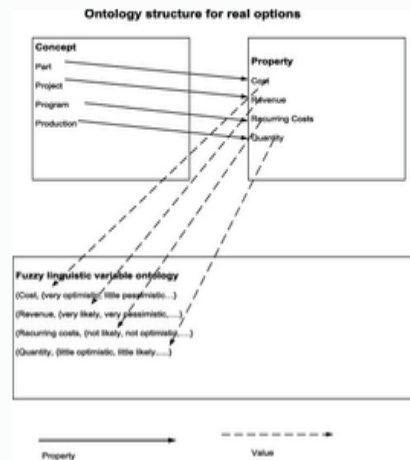
Fig. 2.

The fuzzy aircraft entity relationship diagram and attributes for quantity and unit part costs.



3

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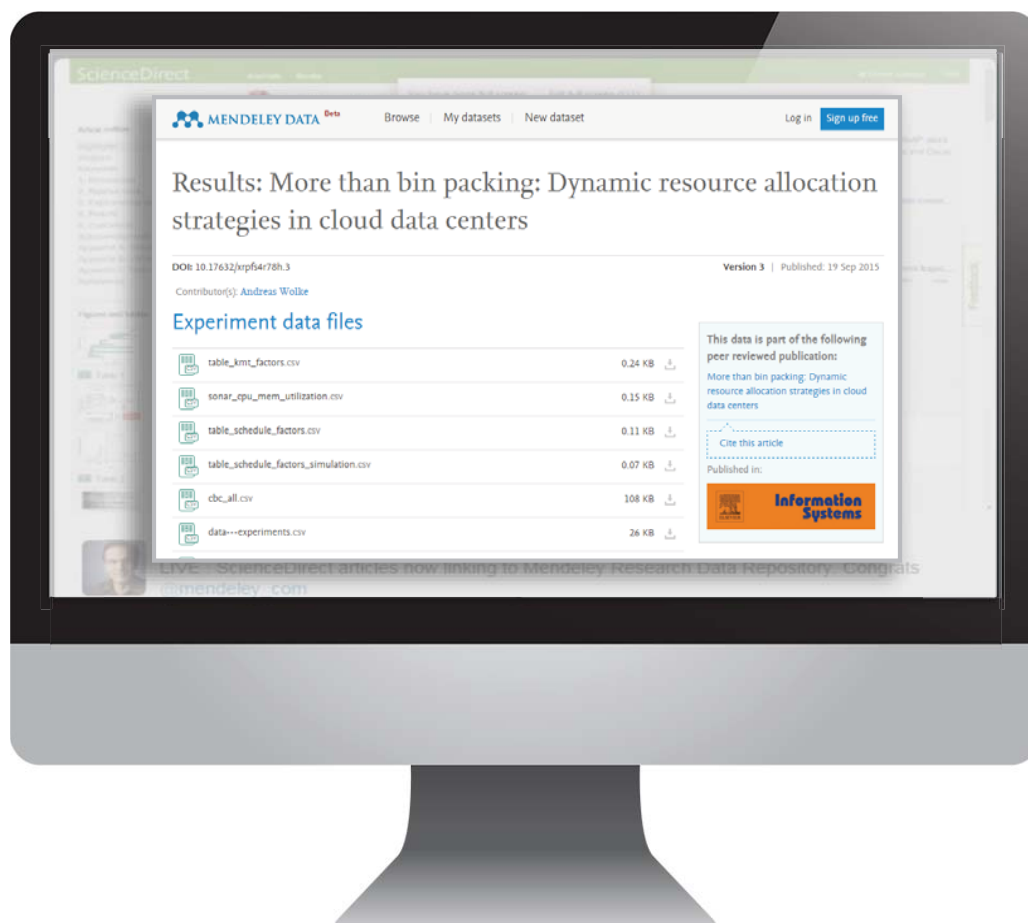
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Case report
Recurrent limbic and extralimbic encephalitis associated with thymoma

Kenji Okita^a, Noriaki Matsukawa^a, Manabu Hatton^a, Kentaro Yamada^a, Koji Takada^a, Takemori Yamawaki^a, Mari Yoshida^a, Yoshio Hashizume^a, Kosei Ojika^a

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Abstract
A 33-year-old woman, with a 7-year clinical history of invasive thymoma treated at ages 26 and 30 years by thymectomy and radiation, presented with a generalized convulsion and loss of consciousness. Following the seizure there was no neurological deficit and normal tendon reflexes. Magnetic resonance imaging (MRI) of the brain without gadolinium enhancement revealed multiple small lesions of high signal intensity on T2 and diffusion weighted images located in the cortical area beyond the temporal lobes. Brain biopsy demonstrated encephalitis with activated microglia and activated T-cell infiltration. Within 4 months of treatment with nothing other than anticonvulsant therapy,

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Encephalitis

Encephalitis is an acute inflammation of the brain, commonly caused by a viral infection.
From: Encyclopedia of Neuroscience, 2009

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Enterovirus, HSV, Herpes simplex virus type 1, Viral encephalitis, Bulbar polio, Epidemic encephalitis, Aseptic meningitis, Herpes simplex virus 1

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Encephalitis
Karen L. Roos, in *Handbook of Clinical Neurology*, 2014.

Introduction
Encephalitis is an infectious or inflammatory disorder of the brain manifest by fever and headache and associated with a depressed level of consciousness, an altered mental status (confusion, behavioral abnormalities), focal neurologic deficits, or new onset seizure activity.

This chapter will address the viral etiologies of encephalitis. Other chapters in this volume address the bacterial, fungal, spirochetal, and parasitic etiologies of encephalitis. The California Encephalitis Project was initiated in 1998 to improve the

3 Viral Infections
Karen L. Roos, in *Textbook of Clinical Neurology (Third Edition)*, 2007.

Western Equine Encephalitis
Western equine encephalitis tends to occur in children younger than age 1 year and in adults older than age 50.⁵⁴ Inapparent infections with western equine encephalitis virus are more common than symptomatic cases. Like the other arthropod-borne encephalitides, western equine encephalitis begins with an influenza-like syndrome of fever, malaise, myalgias, pharyngitis, and vomiting. As the disease progresses, irritability, convulsions, or coma develops.⁴⁹

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From: *Atlas of Oral Microbiology*, 2015

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J.P. Coleman, C.J. Smith, in *Reference Module in Biomedical Sciences*, 2014.

Cytoplasmic Membrane

The cytoplasmic membrane (inner membrane of Gram-negative bacteria) has a structure similar to eukaryotic cell membranes in that it is a bilayer of phospholipids containing embedded proteins. It differs from eukaryotic cell membranes by the absence of polyunsaturated lipids and endogenously synthesized sterols, although some bacteria incorporate membrane sterols

Basic Biology of Oral Microbes

in *Atlas of Oral Microbiology*, 2015.

Cell Membrane

The cell membrane is a selectively permeable biological membrane found inside the cell wall and surrounding the cytoplasm. It is made of a lipid bilayer. The cell membrane is compact and flexible, and measures approximately 7.5nm in thickness. It accounts for 10–30% of the bacterial cell dry weight. The structure of the bacterial cell membrane resembles that of eukaryotic cell membranes, except it is deficient in cholesterol. The lipid bilayer is embedded with carrier proteins and

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J.P. Coleman, C.J. Smith, in *Reference Module in Biomedical Sciences*, 2014.

Cytoplasmic Membrane

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Cell Membrane

The cell membrane is a selectively permeable biological membrane found inside the cell wall and surrounding the cytoplasm. It is made of a lipid bilayer. The cell membrane is compact and flexible, and measures approximately 7.5nm in thickness. It accounts for 10–30% of the bacterial cell dry weight. The structure of the bacterial cell membrane resembles that of eukaryotic cell membranes, except it is deficient in cholesterol. The lipid bilayer is embedded with carrier proteins and zymoprotein, which possess specific functions.

The cell membrane of some bacteria can form invaginations into the cytoplasm called mesosomes.

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Cell Membranes

Jeffrey C. Freedman, in *Cell Physiology Source Book (Fourth Edition)*, 2012.

Summary

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Regulation of K⁺ Excretion

Gerhard Malnic, Gerhard Giebisch, Shigeaki Muto, Wenhui Wang, Matthew A. Bailey, Lisa M. Satlin, in *Seldin and Giebisch's The Kidney (Fifth Edition)*, 2013.

K⁺ Secretion

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Pyramidal tracts

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The pyramidal tract exits the cortex, and after passing the pyramids of the medulla, the majority of these fibers cross to the opposite side and descend in the corticospinal tract through the spinal cord (Figure 3). Some of the fibers that do not cross over in the medulla travel ipsilaterally down the cord and cross to the opposite side in the neck or upper thoracic region.

From: [Reference Module in Biomedical Research](#), 2014

Related terms

[RTMS](#), [Motor area](#), [Motor cortex](#), [Cervical spinal cord](#), [Decussate](#), [Motor neuron](#), [Corticobulbar tract](#), [Facial nucleus](#), [Precentral gyrus](#), [Anterior horn cells](#)

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Methods

Spinal Tracts – Descending/Motor Pathways

Paul Rea, in *Essential Clinical Anatomy of the Nervous System*, 2015.

Pyramidal tracts

The **pyramidal tracts** are comprised of the corticospinal and **corticobulbar** tracts. These are called as **pyramidal tracts** as they crossover at the level of the pyramids in the medulla. They are collections of upper **motor neuron** fibers which go to the **spinal cord** (corticospinal) or the brainstem (corticobulbar) and control the motor function of the body.

The corticospinal tract is comprised of a ventral and lateral tract

Fundamentals

Spinal Cord

Gulgun Sengul, Charles Watson, in *The Human Nervous System (Third Edition)*, 2012.

Corticospinal Tract

The corticospinal tract, also called the pyramidal tract because its fibers form the **medullary pyramids**, is found in all mammals with considerable variation between species. The dorsal corticospinal tract is the major corticospinal bundle, found in the **dorsal column** in rodents. In primates, it is highly developed and the major bundle is in the **lateral column**.

The fibers that give rise to the corticospinal tract in adult mammals arise from the **neurons** of the **precentral gyrus** and the **pa-**

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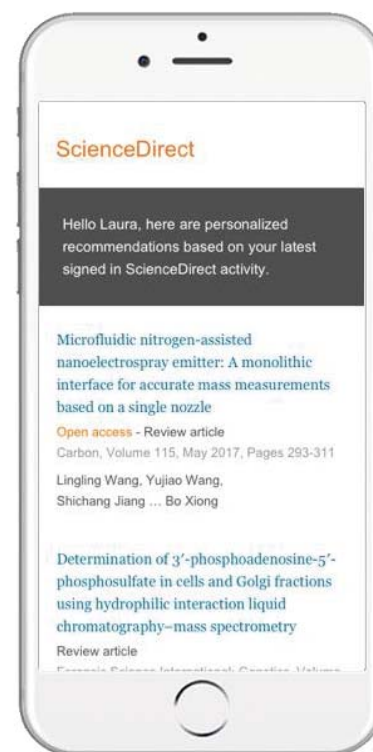
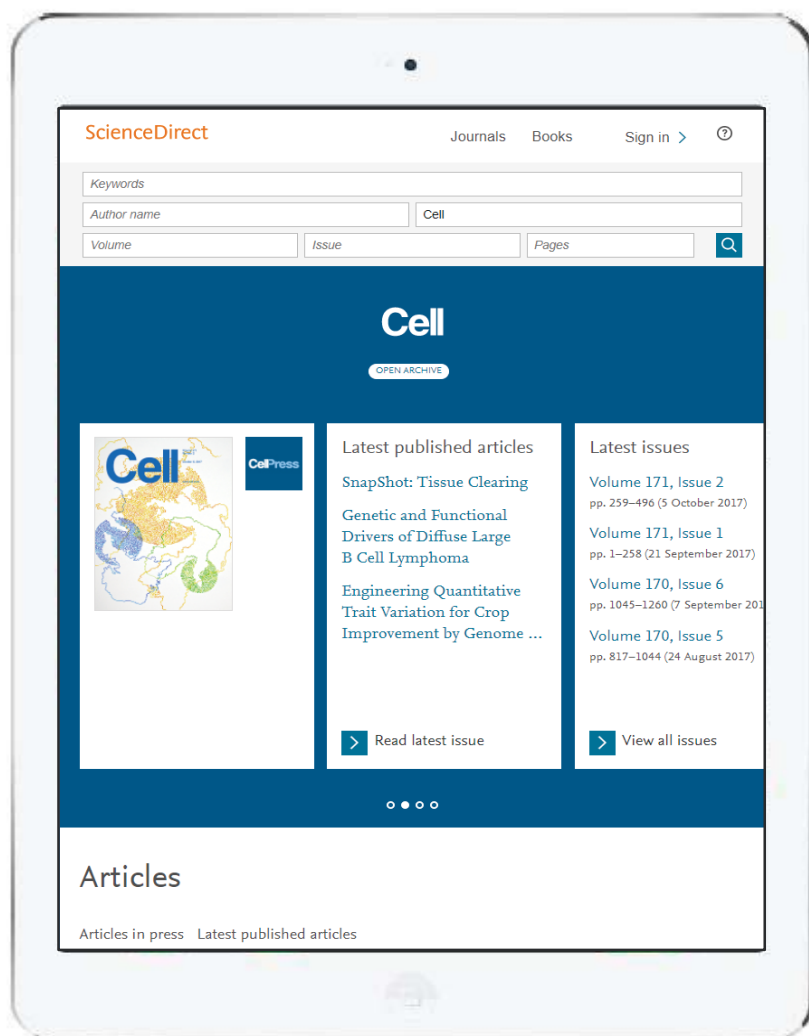


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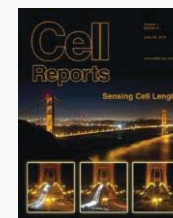
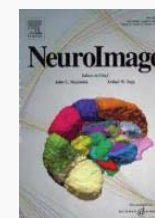
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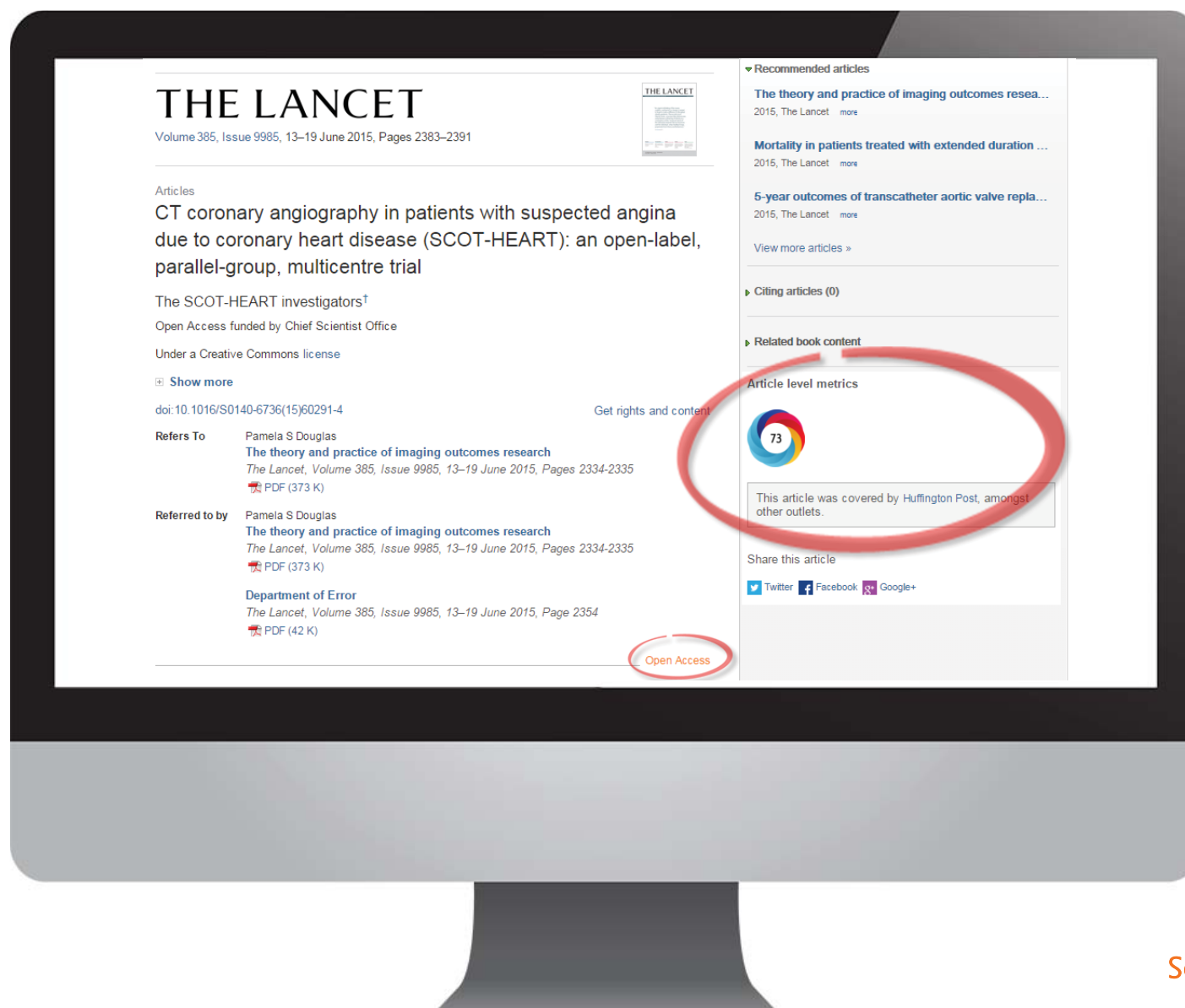
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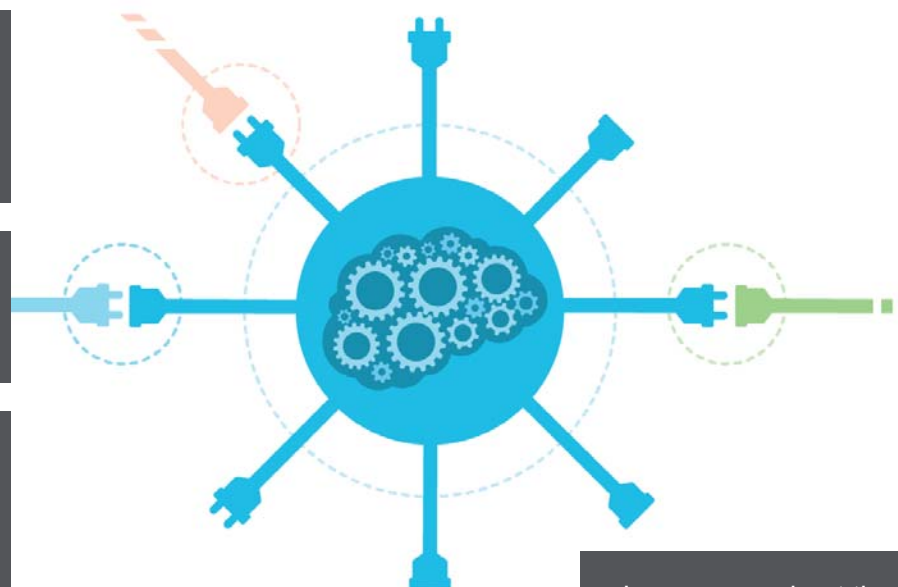


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Review

Povidone iodine in wound healing: A review of concepts and practices

Paul Lorenz Bigliardi ^{a, b, c}, Syed Abdul Latiff Alsagoff ^d, Hossam Yehia El-Kafrawi ^e, Chad Tse Cheuk Wa ^g, Martin Anthony Villa ^h

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1. Original submission

1.1. Recommendation

Minor Revision.

1.2. Comments to the author

Congrats on an excellent work reviewing current concepts regarding povidone iodine in wound healing.

The manuscript is well written and structured. Also, adequate tables are provided summarizing all the info.

Perhaps the only flaw is that this is not a systematic review and meta-analysis. Also a paragraph regarding how the search literature was carried out is missing.

2. First revision

2.1. Recommendation

Accept.

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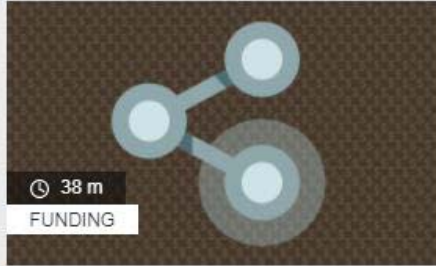
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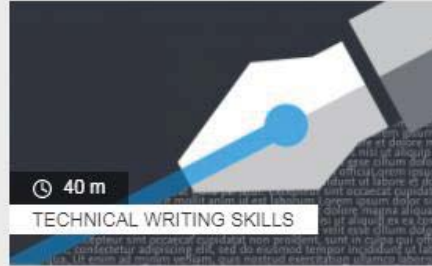
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The screenshot displays the Elsevier Journals Finder interface, which is designed to help researchers find the most suitable journal for their article. The interface is divided into two main sections: a search input area on the left and a results area on the right.

Search Input Area (Left):

- Header:** "Find the perfect journal for your article" with a "Send us feedback" button.
- Instructions:** "Simply insert your title and abstract and select the appropriate field-of-research for the best results."
- Paper title:** A text box labeled "Enter your paper title here".
- Paper abstract:** A text box labeled "Copy and paste your paper abstract here".
- Fields of research:** A section titled "Optional: refine your search by selecting up to three research fields" with checkboxes for Agriculture, Economics, Materials, GeoSciences, Humanities and Arts, Life and Physical Sciences, Mathematics, Physics, and Social Sciences.

Results Area (Right):

- Header:** "Find the perfect journal for your article" with a "Send us feedback" button.
- Search results (10):** A table showing search results for the query "ISA Transactions".
- Table Columns:** Journal title, Match, Impact, Editorial Times, Acceptance, Production Times, Open Access, Embargo period, Open Access Fee, and User License.
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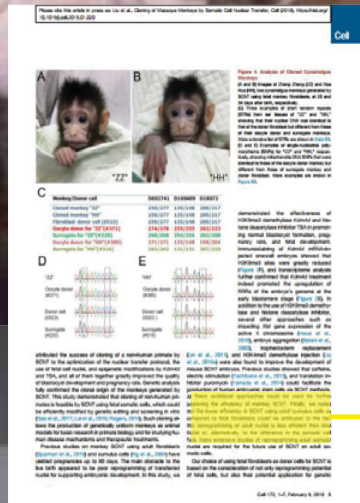
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Thank You!

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