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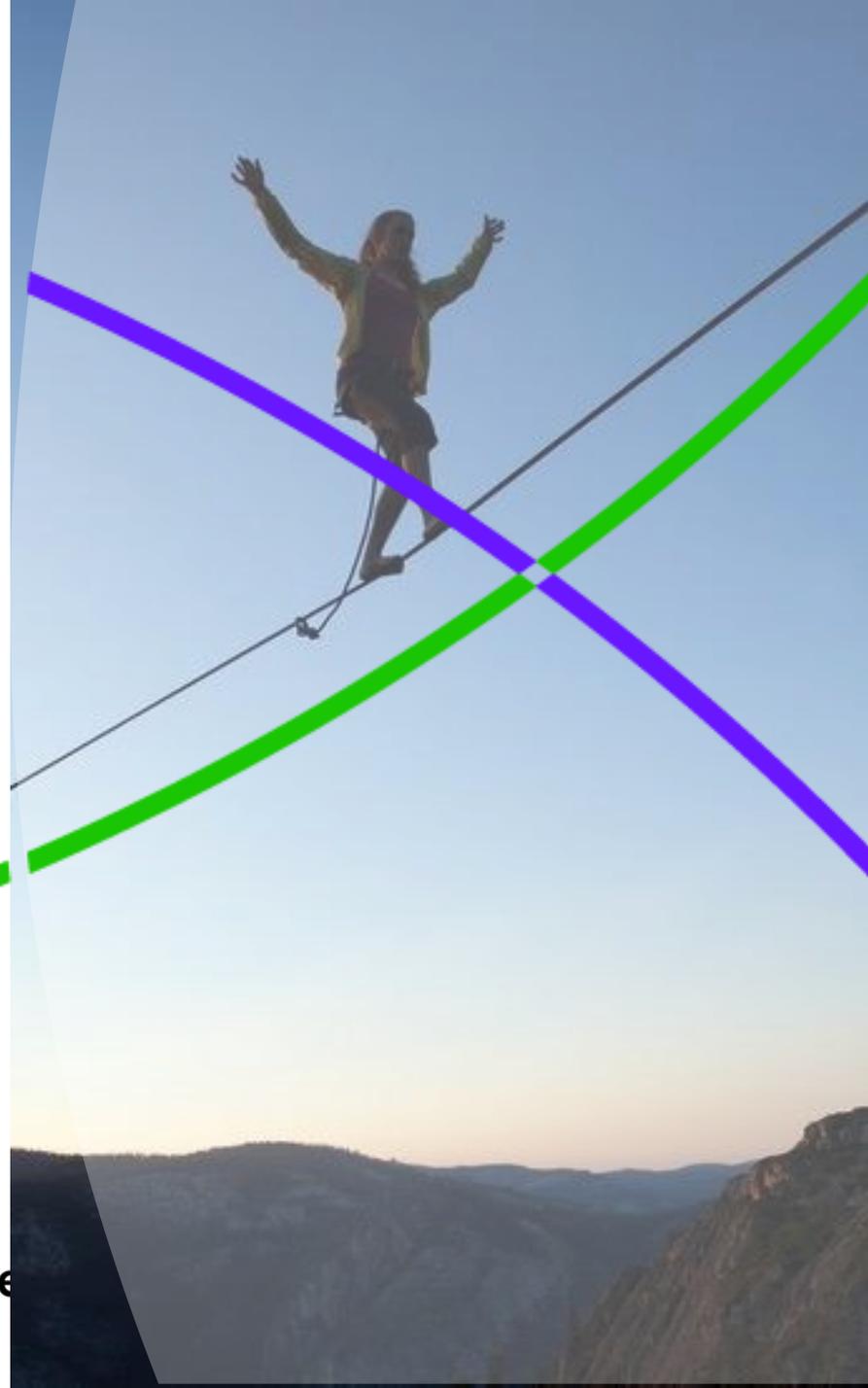
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(wileyonlinelibrary.com) DOI 10.1002/jib.178

Malted and unmalted oats in brewing

Edyta Kordialik-Bogacka,* Paulina Bogdan and Anna Diowksz

Using oats as a raw material in brewing has recently become the focus of increased interest. This is due to research findings that have shown that oats can be consumed safely by coeliac sufferers. It is also a response to consumer demand for products with novel sensory properties. In this study, beer was produced entirely from oat malt, from barley malt and from oat and barley malts mixed with various quantities of unmalted oats. Compared with barley wort, wort made from malted oats provided a lower extract content and had a higher protein content, but a lower free amino nitrogen content (FAN). The oat wort also showed increased viscosity and haze. The addition of unmalted oats during wort production produced significant changes in the physico-chemical parameters of both oat and barley worts and beers. Unmalted oats caused an increase in wort viscosity and haze, and a reduction in total soluble nitrogen and FAN. Unmalted oats also contributed to lowering the concentration of higher alcohols and esters. Beer made from 100% oat and barley malts exhibited a similar alcohol content. The use of an oat adjunct in both cases resulted in a lower ethanol content. The introduction of enzyme preparations during the production of wort with oat adjunct had many benefits: increased extract content and FAN; a higher volume of wort; and a lower viscosity that led to faster wort filtration. This research suggests that the use of enzymes is necessary to make production using a high proportion of oats in the grist profitable. Copyright © 2014 The Institute of Brewing & Distilling

Keywords: oats; oat malt; enzymes; wort; beer

Introduction

Oats are a relatively minor crop in terms of the global cultivation of cereals. The main producers are Russia, the USA and Canada (1). Recently, there has been increased interest in the grain owing to its numerous health benefits (2). Oats supply key cardioprotective compounds such as folate, magnesium, vitamin B6, vitamin E and substances with known antioxidant properties (3,4). Oats are richer in protein than many other cereals, such as barley. Globulin, which is the most valuable protein from a nutritional point of view, is the most abundant protein fraction in oats, making up to 80% of the total kernel protein (5). Oats also contain exogenous amino acids, including lysine, which is not present in other cereals. Oats have high fat content, at around 7% d.m. However, most of this fat is made up of unsaturated fatty acids (oleic, palmitic and linoleic acids), which protect the nervous and blood systems (6,7). Moreover, oats contain high levels of micro- and macroelements, such as iron, iodine, zinc and phosphorus (3). Regular consumption of oats, even in the form of bran or oatmeal, helps maintain appropriate blood insulin levels, reduces low-density lipoprotein cholesterol, and increases high-density lipoprotein cholesterol (8). Owing to its high fibre content, particularly β -glucan, oats support normal intestinal peristalsis, helping to maintain a healthy body weight. Therefore, the inclusion of oats in the daily diet not only improves nutrition, but also helps in the fight against various illnesses (7,8).

Recent studies have shown that, in appropriate quantities, oats can be tolerated by people who suffer from coeliac disease (gluten intolerance) (9). Coeliac disease is a disorder of the small intestine that occurs in genetically predisposed people of all ages, from middle infancy onwards. Gluten is a general term used to describe prolamins, which are present in many grains. Species-specific prolamins in barley are called hordeins, in wheat they are called gliadins and in rye secalins. Coeliac disease is induced by an abnormal immunological reaction towards hordein, gliadin, secalin or similar classes of protein found in crops of the

Triticeae tribe (which includes common grains such as barley and rye) (10). It causes many digestive ailments, principal among which are diarrhoea, abdominal pain and bloating. Untreated coeliac disease may also lead to more serious diseases such as rickets, curvature of the spine, atrophic gastritis, skin problems, malnutrition and emotional disorders.

A growing number of people are being diagnosed with coeliac disease (11). Patients are advised to eliminate beer from their diet, since it is usually produced using barley malt. The proteins are to a large extent digested and removed during the brewing process, but owing to a lack of reliable methods of gluten testing in beer, it is illegal to label beer produced from barley malt as a gluten-free product. Beer is not an indispensable part of the human diet. However, having a wider choice of products improves the quality of life of those suffering from gluten intolerance. Attempts have therefore been made to produce beer of good quality using oat malt, which would be safe for coeliac sufferers (2,12).

Oat beer could be an attractive product not only for people suffering from coeliac disease, but also for other consumers who are looking for new and interesting flavours. Oats were used for the production of low-quality beer during the Middle Ages. However, currently oats are mainly used as an adjunct in the production of stout. Oat and barley grains differ in chemical composition (1,13,14). Oats have less starch and more protein, β -glucan and fat than barley. Although advantageous from a nutritional point of view, high β -glucan and protein content can cause technical problems, including prolonged beer filtration time

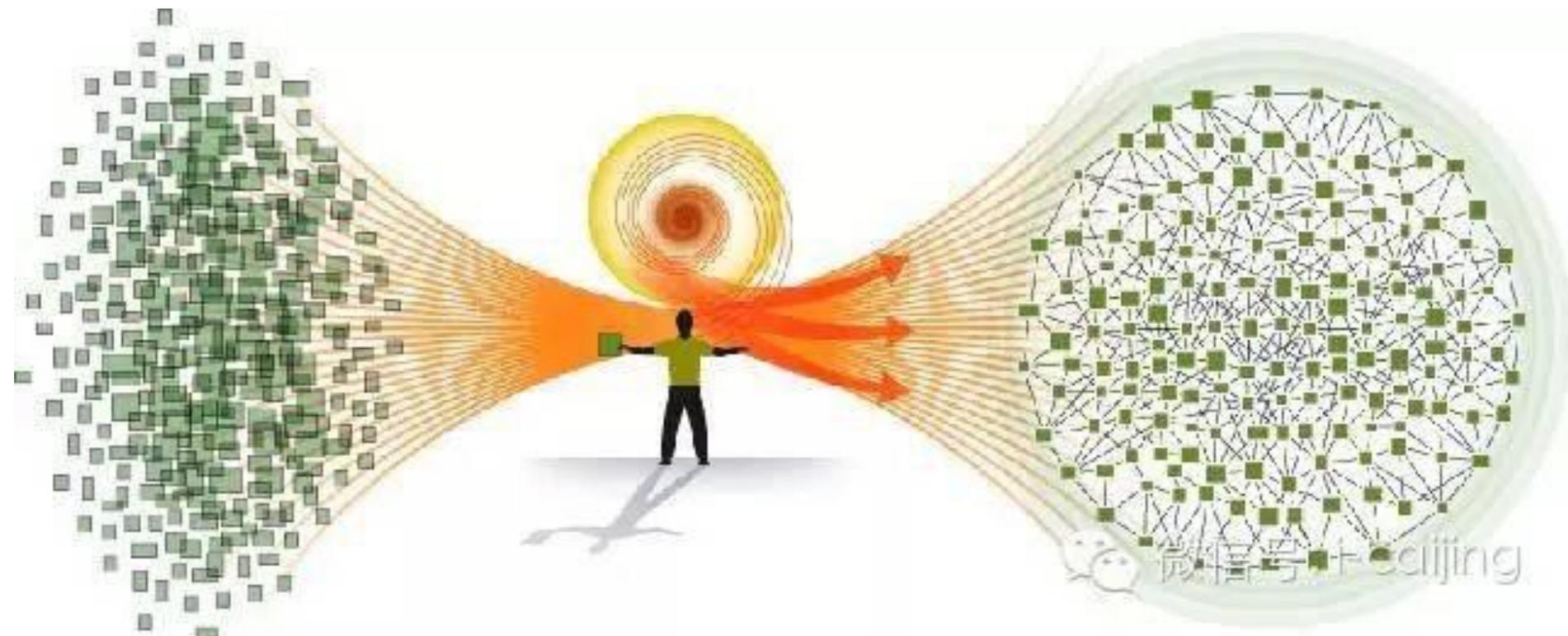
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A Role for Parasites in Stabilising the Fig-Pollinator Mutualism

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3 Natural Environment Research Council (NERC) Centre for Population Biology, Imperial College London, Ascot, United Kingdom

Abstract: Mutualisms are interspecific interactions in which both players benefit. Explaining their maintenance is problematic, because cheaters should outcompete cooperative conspecifics, leading to mutualism instability. Monoecious fig (*Ficus*) are pollinated by host-specific wasps (Apoidea), whose larvae gall ovules in their "ovules" (ovules). Female pollinating wasps deposit directly into fig ovules from inside the receptive ovipositor. Ancestral *Ficus* species, there is a variety documented segregation of pollinator galls in inner ovules and receptive outer ovules. This pattern suggests that ovules are not prevented from ovipositing into, ovules, and this results in mutualism stability. However, the mechanisms preventing wasps from ovipositing into ovules, and the role of parasites in this process, are unclear. We show that ovules in outer ovules are vulnerable to attack by parasitic wasps that originate from the ovipositor. Parasitoids are present in ovules in the centre of the ovipositor, where inner ovules provide greater space than for pollinator offspring. We suggest that the resulting gradient in offspring viability is likely to contribute to selection on pollinators to avoid ovules, and by forcing wasps to focus on a subset of ovules, reduces their galling success. This previously unidentified mechanism may therefore contribute to mutualism persistence independent of additional factors that impose direct selection against pollinator oviposition, or physiological constraints on pollinators that prevent oviposition in all available ovules.

Introduction

In a landscape driven by selection at the level of the individual gene [1], explaining the existence of cooperation, such as mutualisms, is a major scientific challenge. Mutualisms are interspecific ecological interactions characterised by reciprocal benefits to both partners [2] that usually involve costly investments by each. What factors then prevent one partner from imposing unremunerable costs onto the other to erode mutualism stability [3–7]? In some mutualisms, the larger, more mobile partner manipulates the other by affecting benefits to cooperative individuals, and costs to cheaters [8–11]. However, a general consensus on mutualism persistence has only recently been formalised, and this synthesis shows that a high benefit-to-cost ratio of cooperating that has one important factor [9].

Fig trees (*Ficus*) and their host-specific ageneral pollinator wasps are a classic example of an obligate mutualism [12,13]. The wasps pollinate the trees, and the trees provide resources for wasp offspring. In monoecious *Ficus*, female wasps push their way through a specialised entrance into receptive ovules (collectively, "ovules"), which are enclosed in the ovipositor. The wasps then pollinate the tree while depositing their eggs individually into ovules. Thus, each egg laid into the tree now seed, but upon emergence, the female wasp offspring disperses that tree's pollen. Trees need to produce both wasps and seeds for the mutualism to persist, but natural selection should favour wasps that exploit the maximum number of fig ovules in the short term, resulting in a conflict of interest between wasp and tree. However, the mutualism has persisted for at least 60 million years and has radiated into more than 700 species pairs [12]. The mechanisms preventing wasps

from overexploiting fig remains unknown. Despite intensive study over four decades.

Within receptive ovules, the lengths of floral ovules are highly variable [14,15], and ovipositing pollinators (Hymenoptera) favour flowers with shorter ovules for their offspring [15–18]. Note and petiole lengths of flowers are negatively correlated. Shorter ovules develop into seeds or galls (where a wasp is present) near the receptive inner cavity, while most longer ovules develop into seeds near the outer wall [19,20] (Figure 1). These patterns have been shown to reflect the ovipositor preference of females, and are unlikely to be the result of greater elongation of pedicels containing eggs during ovipositor maturation, because an ovipositor ovum, pollinator eggs are mainly present in short-ovuled inner ovules [9]. These widespread observations have been cited to four, not necessarily mutually exclusive, mechanisms that have been proposed to stabilise the fig-pollinator mutualism: (1) Unobtainable seeds—outer ovules may be obtained functionally or physically against oviposition or larval development [21]. However, no mechanism has yet been identified. (2) Short ovipositor-pollinator oviposition may be too short to fully penetrate the long styles of

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Received: September 14, 2007; **Accepted:** January 22, 2008; **Published:** March 11, 2008
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Abbreviations: see material methods
 * To whom correspondence should be addressed. jmcook@ucl.ac.uk

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Burke, J. D. (2007). Antisocial personality disorder. In A. Bell & M. Reinecke (Eds.), *Personality disorders in childhood* (pp. 429–494). New York, NY: Wiley.

DOI: [10.1371/journal.pone.0020000](https://doi.org/10.1371/journal.pone.0020000)
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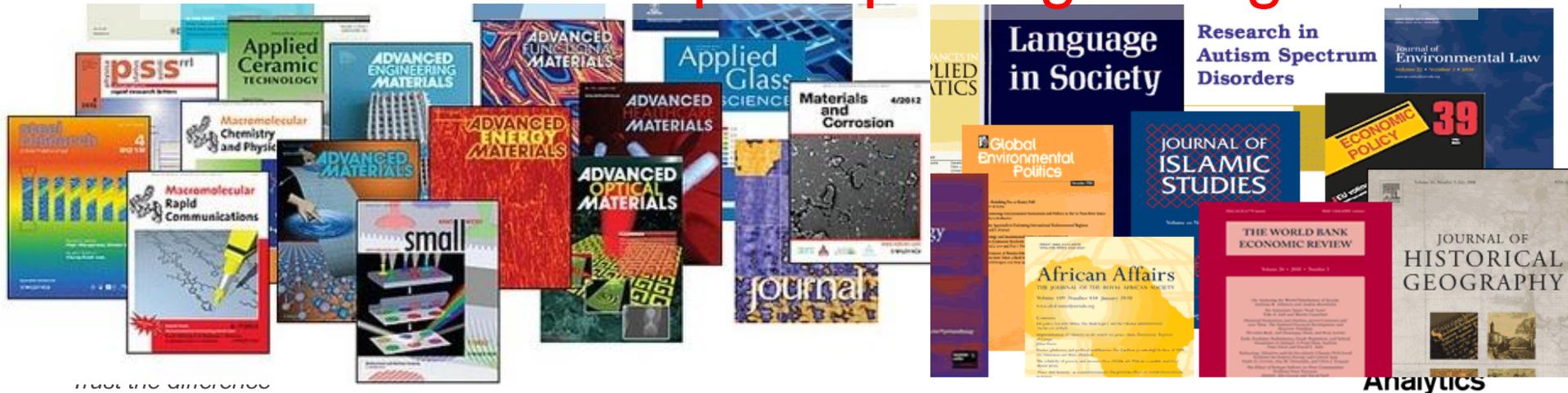
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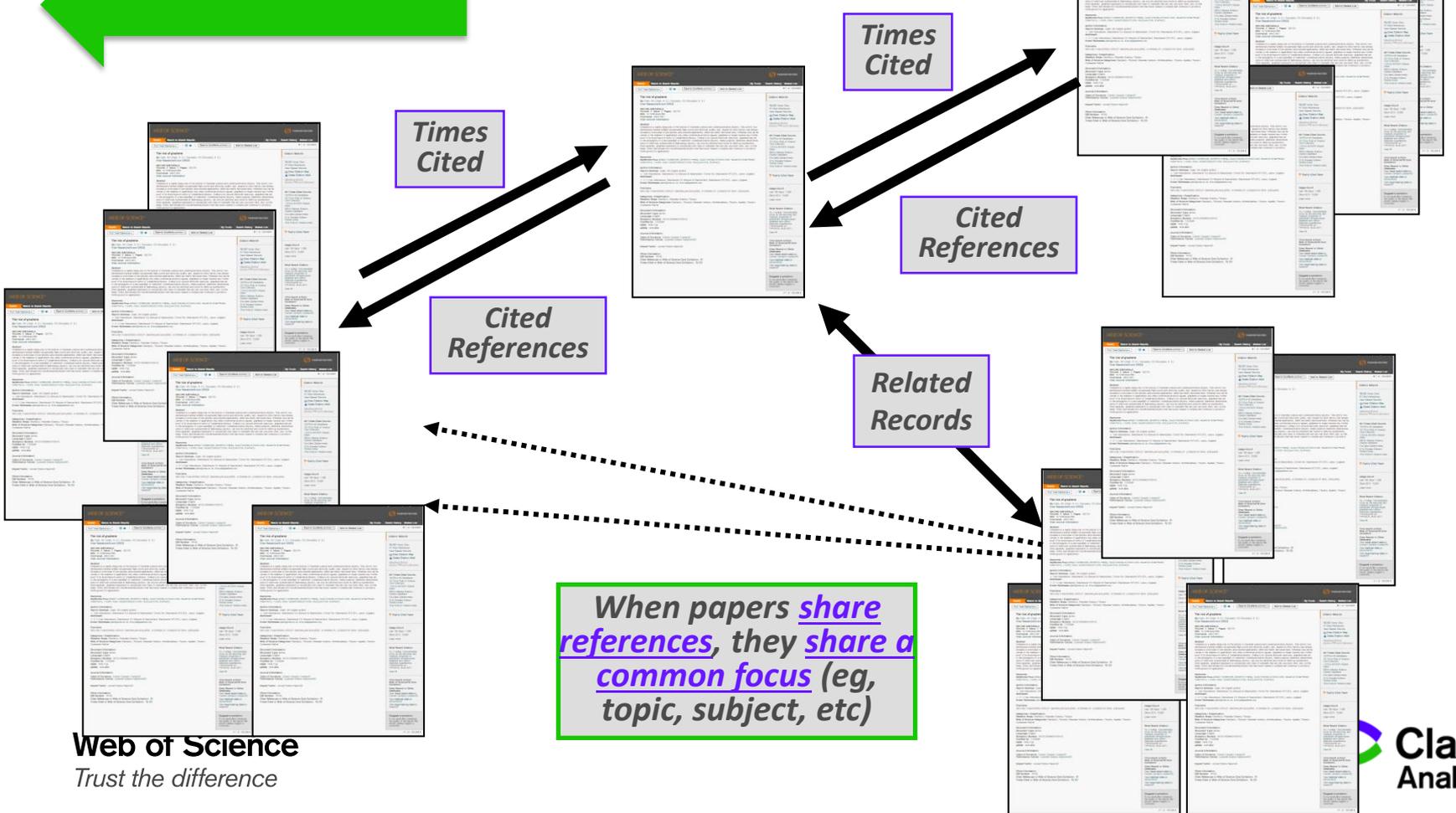
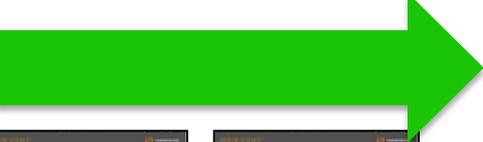
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Malted and unmalted oats in brewing

By: Kordialik-Bogacka, E (Kordialik-Bogacka, Edyta)^[1]; Bogdan, P (Bogdan, Paulina)^[1]; Diowksz, A (Diowksz, Anna)^[1]

JOURNAL OF THE INSTITUTE OF BREWING

Volume: 120 Issue: 4 Pages: 390-398

DOI: 10.1002/jib.178

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Abstract

Using oats as a raw material in brewing has recently become the focus of increased interest. This is due to research findings that have shown that consumed safely by coeliac sufferers. It is also a response to consumer demand for products with novel sensory properties. In this study, beer was entirely from oat malt, from barley malt and from oat and barley malts mixed with various quantities of unmalted oats. Compared with barley wort made from malted oats provided a lower extract content and had a higher protein content, but a lower free amino nitrogen content (FAN). The oat showed increased viscosity and haze. The addition of unmalted oats during wort production produced significant changes in the physico-chemical parameters of both oat and barley worts and beers. Unmalted oats caused an increase in wort viscosity and haze, and a reduction in total soluble and FAN. Unmalted oats also contributed to lowering the concentration of higher alcohols and esters. Beer made from 100% oat and barley malts similar alcohol content. The use of an oat adjunct in both cases resulted in a lower ethanol content. The introduction of enzyme preparations during production of wort with oat adjunct had many benefits: increased extract content and FAN; a higher volume of wort; and a lower viscosity that led to wort filtration. This research suggests that the use of enzymes is necessary to make production using a high proportion of oats in the grist profitable. Copyright (c) 2014 The Institute of Brewing & Distilling

Keywords

Author Keywords: oats; oat malt; enzymes; wort; beer

KeyWords Plus: AVENA-SATIVA L.; BETA-GLUCAN; SACCHAROMYCES-CEREVISIAE; GERMINATION CONDITIONS; HIGHER ALCOHOLS; QUALITY; BARLEY; BEERS; VISCOSITY; DISEASE

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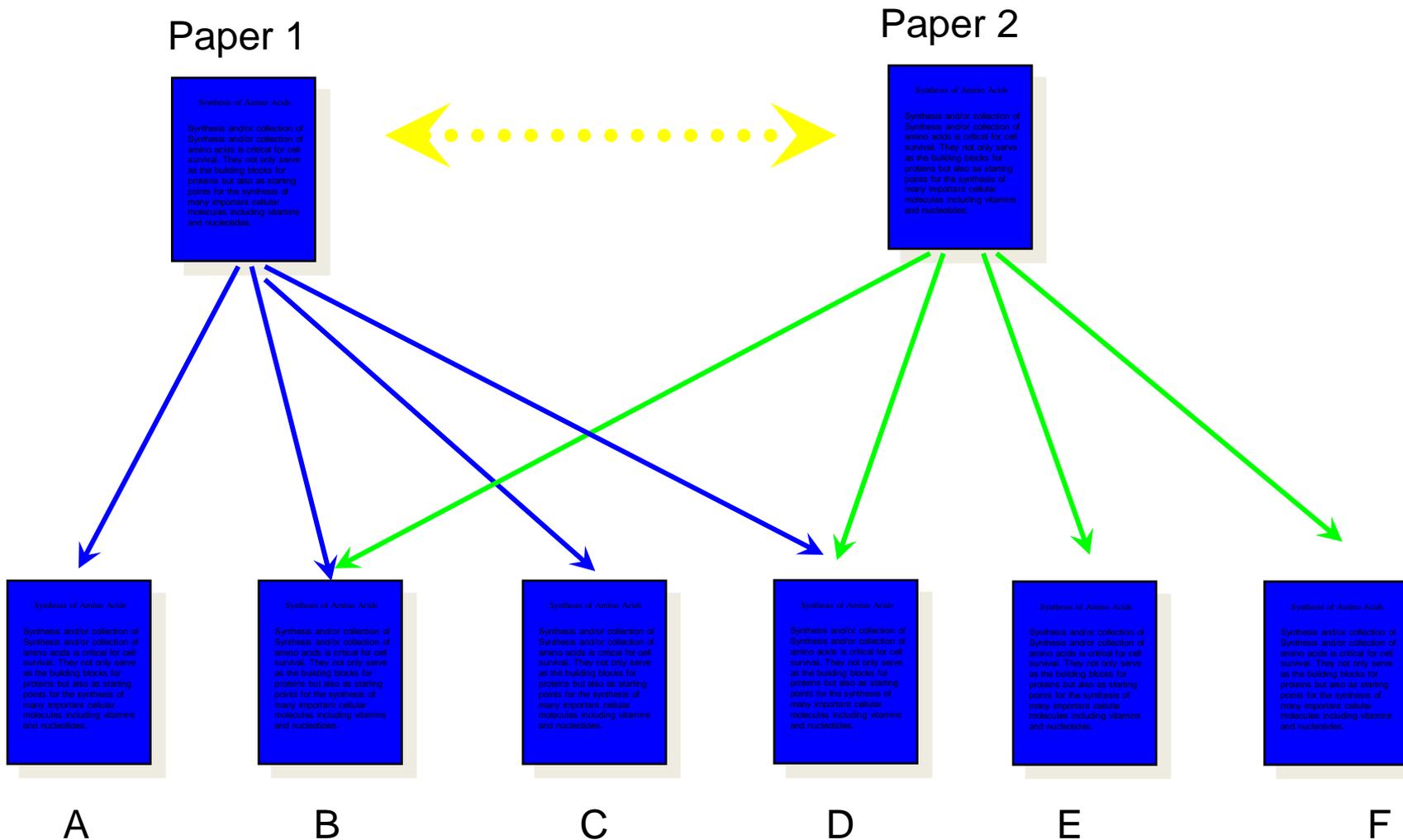
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Volume: 7 Issue: 8

Article Number: e2348

DOI: 10.1371/journal.pntd.0002348

Published: AUG 2013

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Abstract

Background: Zika virus (ZIKV) is a little known arbovirus until it caused a major outbreak in the Pacific Island of Yap in 2007. Although the virus has a wide geographic distribution, most of the known vectors are sylvatic Aedes mosquitoes from Africa where the virus was first isolated. Presently, Ae. aegypti is the only known vector to transmit the virus outside the African continent, though Ae. albopictus has long been a suspected vector. Currently, Ae. albopictus has been shown capable of transmitting more than 20 arboviruses and its notoriety as an important vector came to light during the recent chikungunya pandemic. The vulnerability of Singapore to emerging infectious arboviruses has stimulated our interest to determine the competence of local Ae. albopictus to transmit ZIKV.

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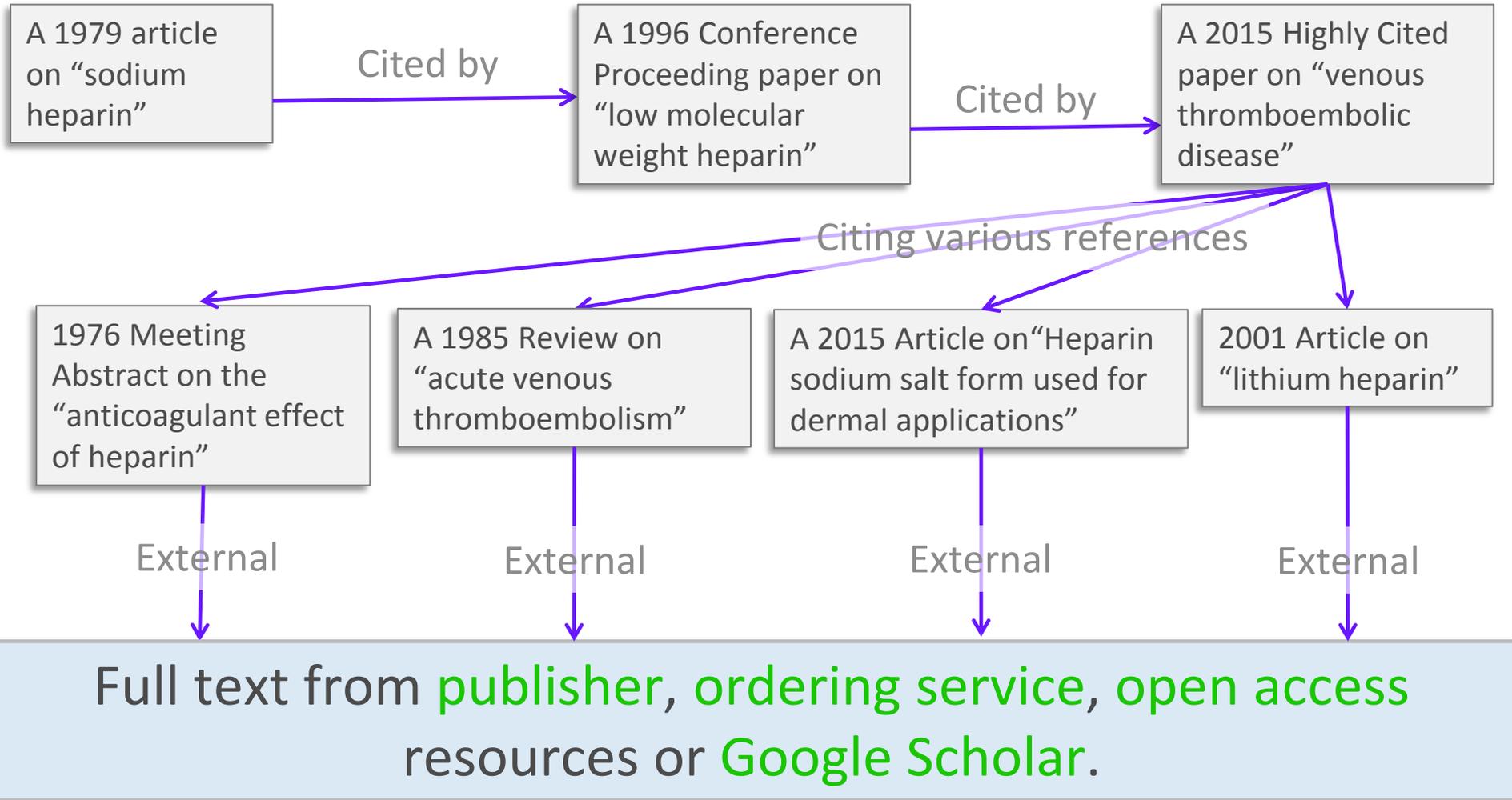
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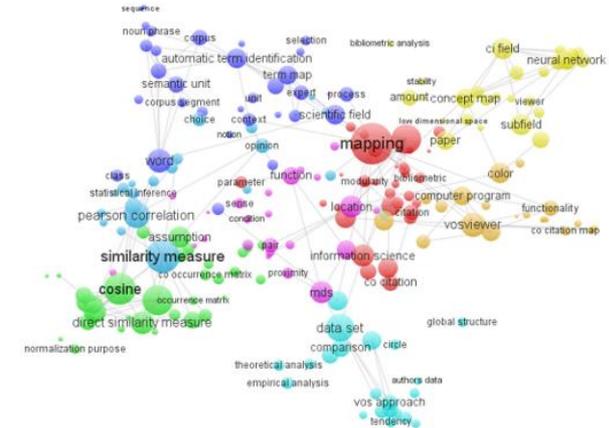
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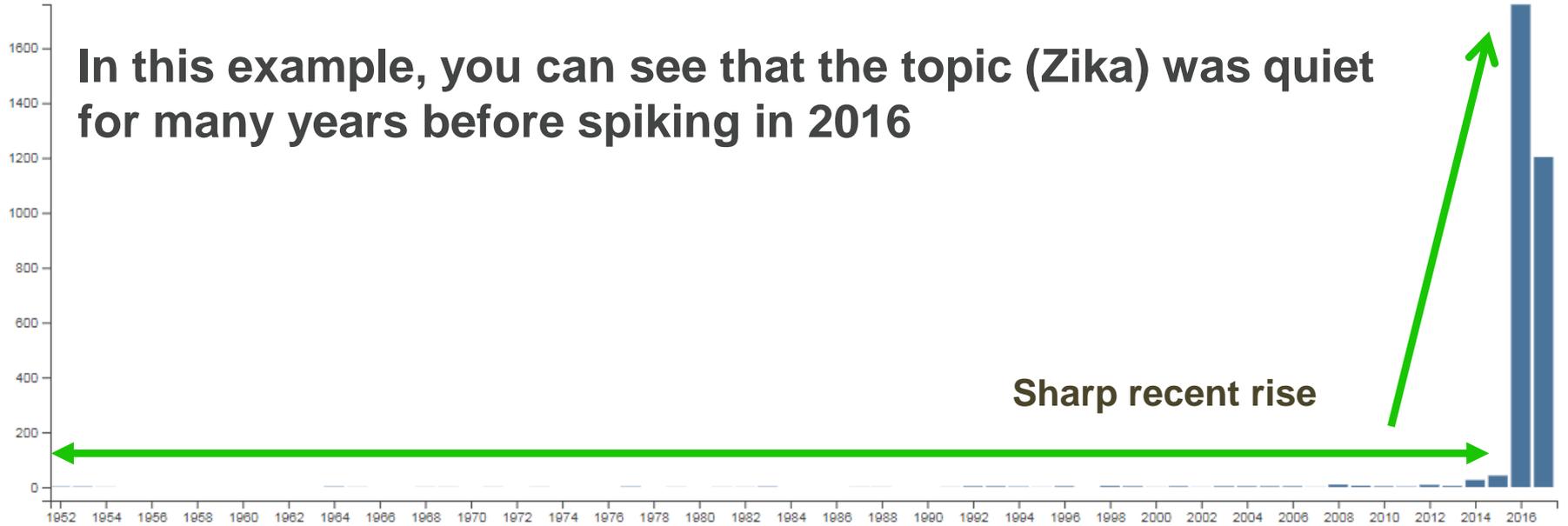
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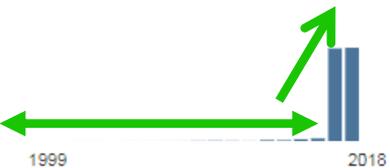
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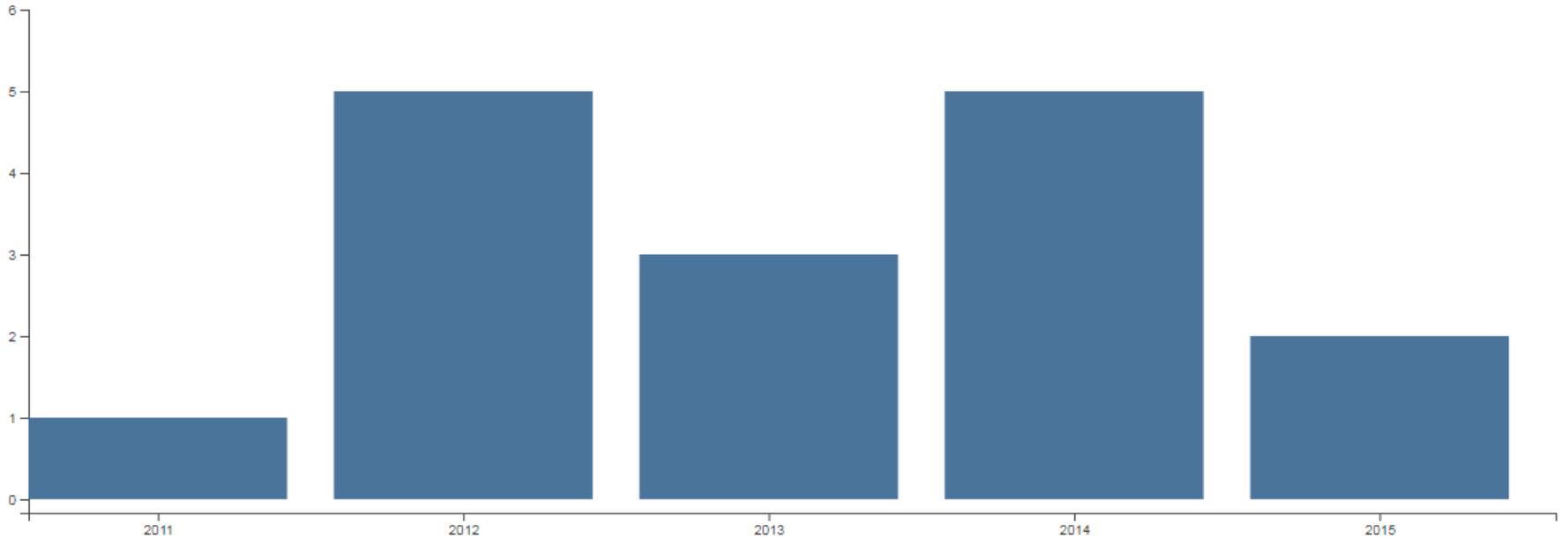


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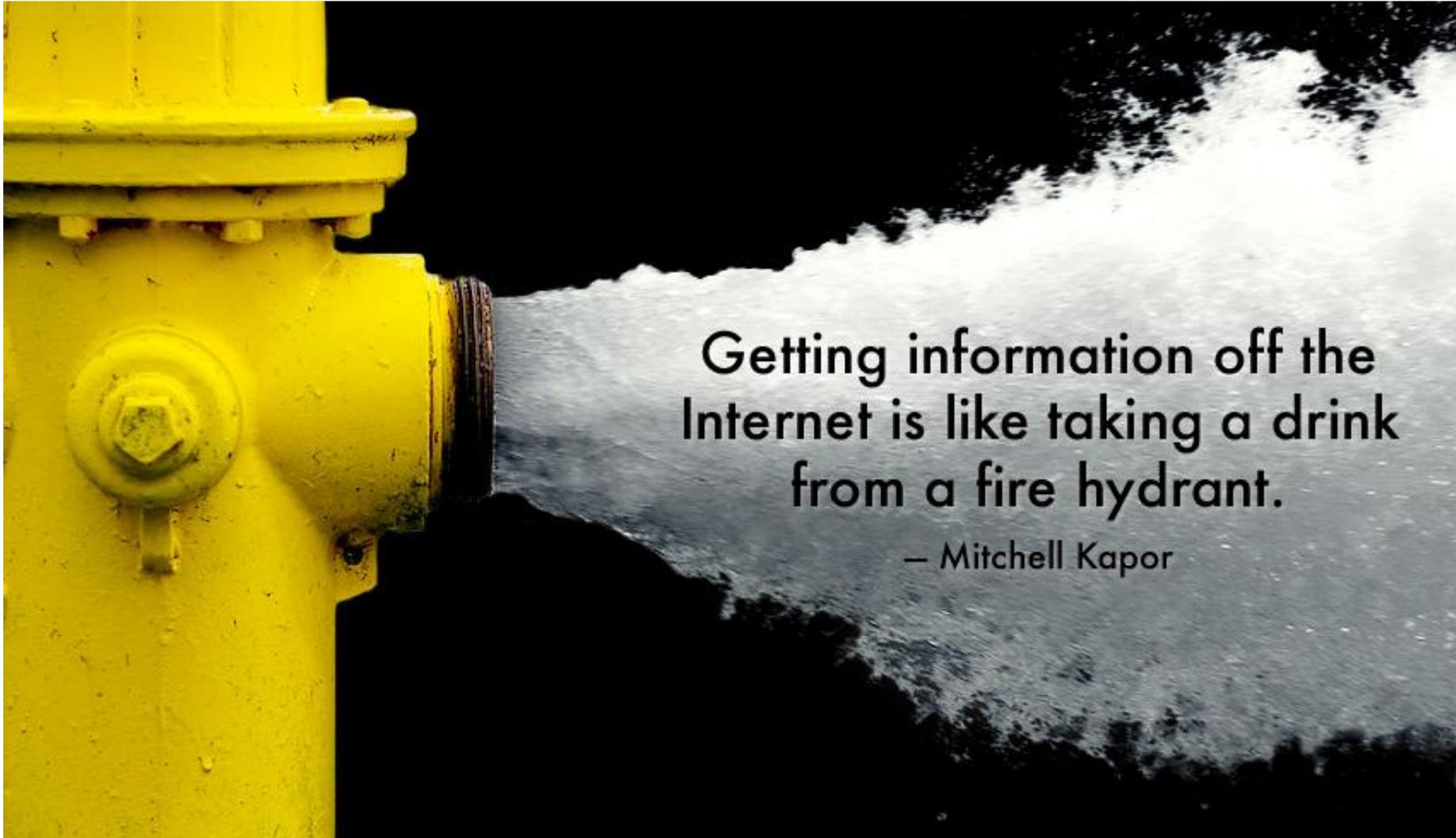
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A close-up photograph of a yellow fire hydrant on the left side. A powerful stream of water is spraying out from the side of the hydrant towards the right. The background is dark, making the white water stand out. The text is overlaid on the right side of the image.

Getting information off the
Internet is like taking a drink
from a fire hydrant.

– Mitchell Kapor

Google Scholar results include citations in Web of Science

Google

water membrane filtration

Scholar Page 2 of about 1,230,000 results (0.07 sec)

Articles **Membrane filtration of textile dyehouse wastewater for technological water reuse**

Case law J Sójka-Ledakowicz, T Koprowski, W Machnowski... - Desalination, 1998 - Elsevier

My library Polish textile industry demands big amounts of **water** and produces wastewater having high load of contaminants. The continued increase in the costs of chemicals, energy and **water** makes their recovery more important today than it was years ago when separation

Cited by 97 Related articles All 7 versions **Web of Science: 51** Import into EndNote Save More

WEB OF SCIENCE™

Search Return to Search Results My Tools

< Back to Google Scholar

Citing Articles: 51
(from Web of Science Core Collection)

For: Membrane filtration of textile dyehouse wastewater for technological water reuse ...More

Times Cited Counts

55 in All Databases

51 in Web of Science Core Collection

10 in BIOSIS Citation Index

2 in Chinese Science Citation Database

0 data sets in Data Citation Index

0 publication in Data Citation Index

0 in Russian Science Citation Index

1 in SciELO Citation Index

View Additional Times Cited Counts

Sort by: Publication Date -- newest to oldest

Select Page   5K Save to InCites Add to Marked List

1. **Polyurethane TFC nanofiltration membranes based on interfacial polymerization of poly(bis-MPA) and MDI on the polyethersulfone support**
By: Mahdavi, Hossein; Razmi, Fariba; Shahalizade, Taieb
SEPARATION AND PURIFICATION TECHNOLOGY Volume: 162 Pages: 37-44 Published: APR 13 2016
 Full Text from Publisher View Abstract

2. **Development of a High Performance PES Ultrafiltration Hollow Fiber Membrane for Oily Wastewater Treatment Using Response Surface Methodology**
By: Shakir, Noor Adila Aluwj; Wong, Kuan Yew; Noordin, Mohd Yusof, et al.
SUSTAINABILITY Volume: 7 Issue: 12 Pages: 16465-16482 Published: DEC 2015
 Full Text from Publisher View Abstract

You can install the Chrome Extension and search WoS from anywhere

<https://chrome.google.com/webstore/search/web%20of%20science>

The screenshot shows the Chrome Web Store interface with a search for 'web of science'. The search results are categorized into Extensions and Themes. The 'Web of Science - Quick Search' extension by Clarivate Analytics is highlighted with a red box. It features a green 'ADDED' badge and a 'RATE IT' button. Other extensions shown include 'Web of Science生成参考文献助手' by FrankHan, 'Lazy Scholar' by lazyscholar.org, and 'Steampunk' by macdonaldcreativestudios.com. The left sidebar shows navigation options like Home, Extensions, Themes, and Apps, along with feature filters and rating options.

chrome web store

web of science

Extensions

More Extension Results

« Home

Extensions

Themes

Apps

FEATURES

Runs Offline

By Google

Free

Available for Android

Works with Google Drive

RATINGS

★★★★★

★★★★★ & up

★★★★★ & up

★★★★★ & up

ADDED

Clarivate Analytics

Web of Science - Quick Search

Clarivate Analytics

Performs a topic search in Web of Science.

RATE IT

Search Tools

★★★★★ (11)

Web of Science生成参考文献助手

FrankHan

将Web of Science搜索结果保存为参考文献。

+ ADD TO CHROME

Productivity

★★★★★ (3)

Lazy Scholar

offered by lazyscholar.org

Automatic check for full text, details, and metrics of scientific articles, plus comments, citations, fast sharing and more.

+ ADD TO CHROME

Search Tools

★★★★★ (51)

Themes

More Theme Results

Steampunk

offered by macdonaldcreativestudios.com

Theme From MacDonald Creative Studios

BUY FOR SGD1.29

Themes

★★★★★ (2)



Anglo American swims against the current in backing fuel cells



Emerging climate bonds boom, but are they really green?

Web of Science Clarivate Analytics

Search Web of Science (All Databases Search)

"climate bond*"] Search

Settings | © Copyright 2017 Clarivate Analytics



Vattenfall communal heating network taps into German cities' growth

Web of Science Clarivate Analytics

Search My Tools Search History Marked List

Results: 9 (from All Databases)

You searched for: TOPIC: ("climate bond*") ...More

Refine Results

Search within results for...

Publication Years

- 2011 (2)
- 2010 (2)
- 2017 (1)
- 2012 (1)
- 2007 (1)

more options / values... Refine

Research Domains

Sort by: Publication Date -- newest to oldest

Page 1 of 1

Select Page 5K Save to EndNote online Add to Marked List Create Citation Report Analyze Results

Times Cited: 0 (from All Databases) Usage Count

1. **Low Carbon Transport in Nanjing: An inevitable Greener Prospect**
 By: Zheng, Chaocheng; Zhang, Yi; Cheng, Dongxiang
 Edited by: You, Z; Tan, Z; Ke, J
 Conference: International Conference on Materials Science, Resource and Environmental Engineering (MSREE)
 Location: Xian, PEOPLES R CHINA Date: DEC 10-11, 2016
 2016 INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE, RESOURCE AND ENVIRONMENTAL ENGINEERING Book Series: AIP Conference Proceedings Volume: 1794 Article Number: UNSP 030015-1
 Published: 2017
 Full Text from Publisher View Abstract

2. **Financing climate-friendly energy development through bonds**
 By: Mathews, John A.; Kidney, Sean
 DEVELOPMENT SOUTHERN AFRICA Volume: 29 Issue: 2 Pages: 337-349 Published: 2012
 Full Text from Publisher View Abstract

3. **Individual and Group Process Variables That Affect Social Support in Counseling Groups**
 Times Cited: 11 (from All Databases)

Well Trust

Clarivate Analytics

ASEAN signs free trade investment pact

Kong



Re



(Clarifies timing in second paragraph)

By James Pomfret and Enrico Dela Cruz

- Copy Ctrl+C
- Search Google for "free trade"
- Print... Ctrl+P
- Search Web of Science
- Inspect Ctrl+Shift+I

HONG KONG, Nov 12 (Reuters) - Hong Kong on Sunday signed free trade and investment pacts with the ten-nation Association of Southeast Asian Nations, in what one of the Chinese territory's senior officials called a "loud and clear" vote against rising regional trade protectionism.

The pacts conclude nearly three years of talks, are expected to take effect on January 1, 2019 at the earliest, and aim to bring "deeper and bolder" integration of market access with the bloc, said Edward Yau, Hong Kong's commerce and development secretary.

"In the face of protectionist sentiments in other parts of the world, these two agreements are in fact a loud and clear vote from all of us here for freer and more open trade," Yau said.

"Hong Kong, being a free trade promoter and advocate of a strong, rule-based multilateral trading system, will continue to take this pathway, continue to do our utmost."

Total merchandise trade between Hong Kong and ASEAN was HK\$833 billion (\$107 billion) last year, official figures show. Total services trade was HK\$121 billion (\$16 billion) in 2015.

Kopernio provides one-click access to legal PDFs

Kopernio is a browser plug-in that delivers the best available PDF at your point of need, based on your library's subscription.

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- “Next generation” link resolver that finds PDFs as you browse the internet.
- Integrates with Google Scholar and Pubmed.
- Records usage in your library usage reports.



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The screenshot shows a Web of Science article page for the paper "Free radicals and antioxidants in normal physiological functions and human disease". The article is from the International Journal of Biochemistry & Cell Biology, Volume 39, Issue 1, Pages 44-84, published in 2007. The article has 2007 citations and is a review. The abstract discusses the role of reactive oxygen species (ROS) and reactive nitrogen species (RNS) in cellular processes. A Kopernio overlay is visible at the bottom of the page, showing a "PDF found" message and a "View PDF" button.

WoS Quiz - True/False questions

Web of Science is a research discovery tool to enhance your search efficiency

True! Citation linkages are more robust than keyword searches and lead to you relevant information that you need.

Web of Science Core Collection covers scholarly materials that are high impact to the scholarly community.

True! Web of Science Core Collection coverage is carefully selected to cover the most important scientific literature. Note that indexing more literature creates more noise and isn't useful.

WoS Quiz - True/False questions

Clarivate Analytics (formerly ISI) owns many journals and includes them in the Web of Science to promote them.

False! Clarivate Analytics (formerly ISI) is not a primary publisher and chooses journals based on objective standards. There is no conflict of interest.

Web of Science is a full-text provider

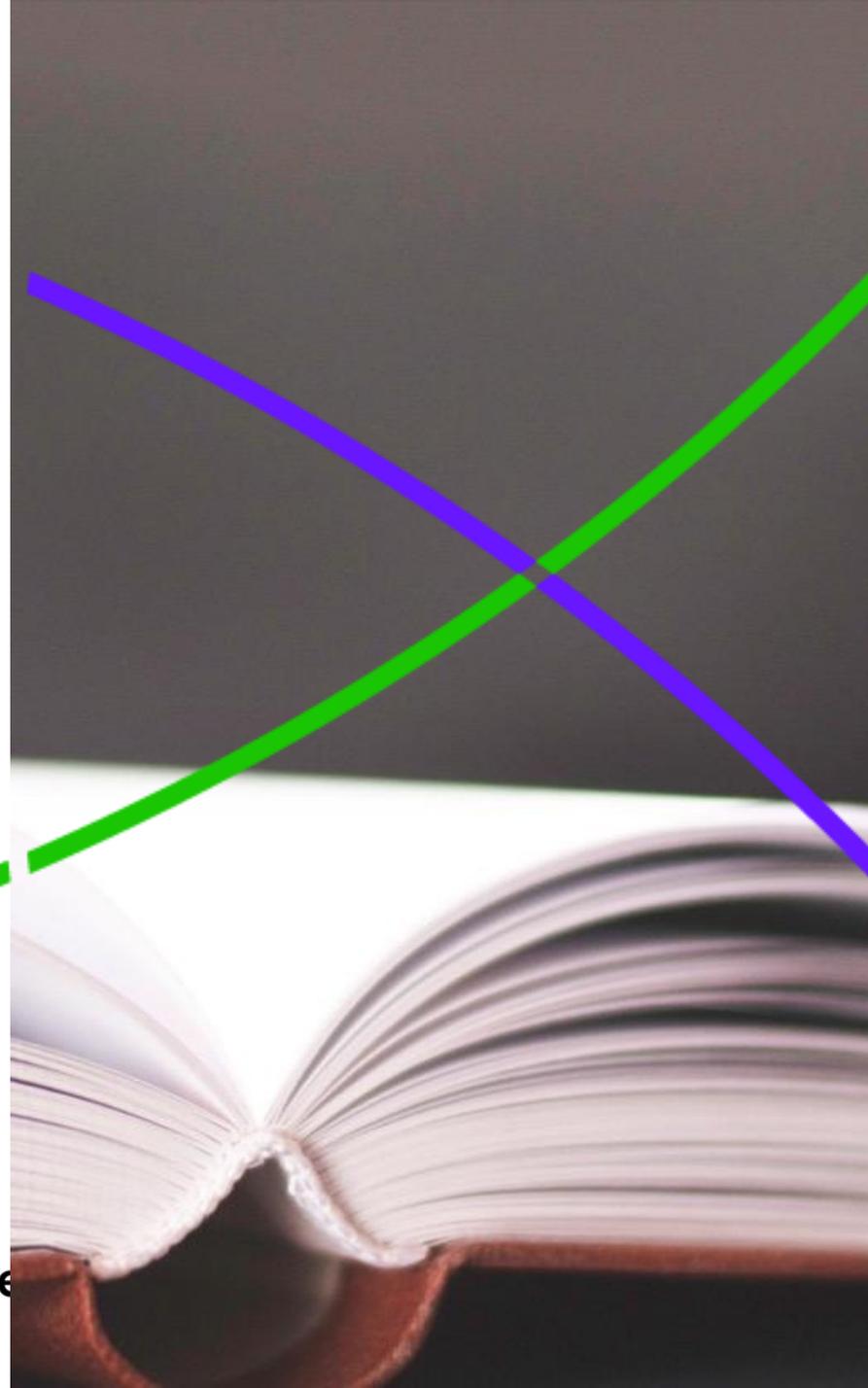
False! Clarivate Analytics does own full text copyrights as it is not a primary publisher.

5 Ways of Finding High Impact Journals

Where to publish for maximum impact?

SEE Diu Seng, PhD
Solution Consultant (Southeast Asia)
diuseng.see@clarivate.com

<http://www.researcherid.com/rid/I-6412-2015>
<http://orcid.org/0000-0002-1435-1608>



WHERE you publish is the most important factor to determine if your paper gets cited

“For the literature as a whole — 39 million research papers across all disciplines recorded in the Web of Science from 1900 to the end of 2015 — some 21% haven’t yet been cited. Unsurprisingly, most of these uncited papers appear in little-known journals; almost all papers in well-known journals do get cited”

NEWS FEATURE • 13 DECEMBER 2017

The science that’s never been cited

Nature investigates how many papers really end up without a single citation.

[Richard Van Noorden](#)

<https://www.nature.com/articles/d41586-017-08404-0>

Some Viable Publishing Strategies

Strategy

“I look for **government accredited journals**”

“I look for **internationally recognized journals.**”

“I want to publish in **journals with high rank and prestige**”

“I aim for journals that **get cited very quickly**”

“I want to publish in journals that **gets cited for a long time**”

Web of Science
Trust the difference

How?

Refer to **Thai Citation Index** published by TRF

Use **Web of Science or JCR** to find high quality international journals

Find **journal ranking and quartiles** in JCR

Use “**Immediacy Index**” metric in JCR

Use “**Cited Half Life**” metric in JCR

 Clarivate
Analytics

But...

Why use Journal Citation
Reports?

Journal Citation Reports provides NEUTRAL and OBJECTIVE Journal Measurements

“Clarivate Analytics is neutral: we are not a publisher and we have no plans to become one.”

What this means to you:

Clarivate doesn't own journals, they are an information company. This makes JCR rankings objective and unbiased.

“We carefully weed out any predatory and non-peer-reviewed journals, so you can be confident that only the best journals are eligible to be given a JIF score.”

What this means to you:

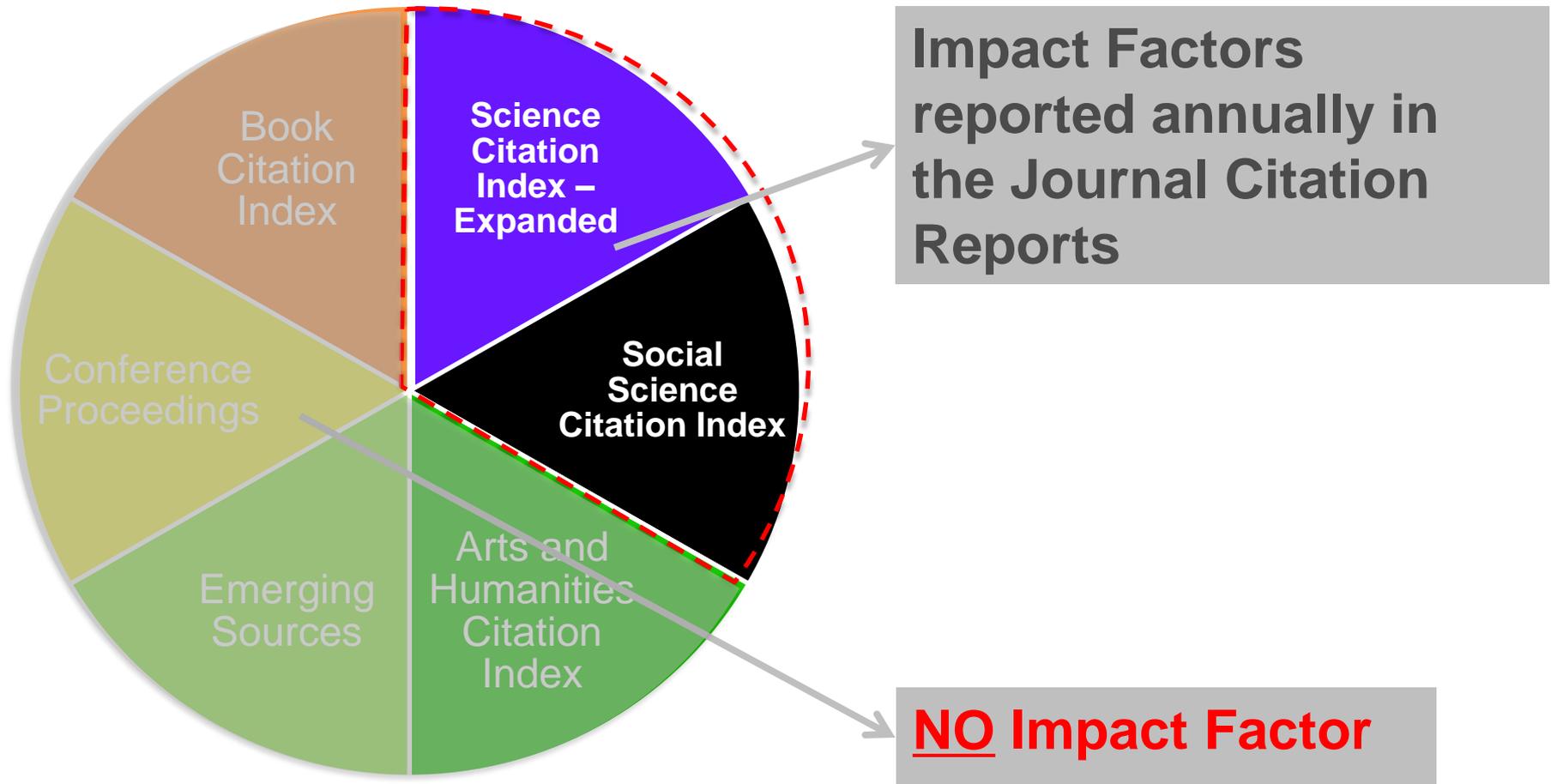
Impact Factor is precious and **ONLY THE BEST** journals receive one.

<https://clarivate.com/blog/science-research-connect/research-management/citescore-a-non-rival-for-the-journal-impact-factor/>

Journal Citation Reports

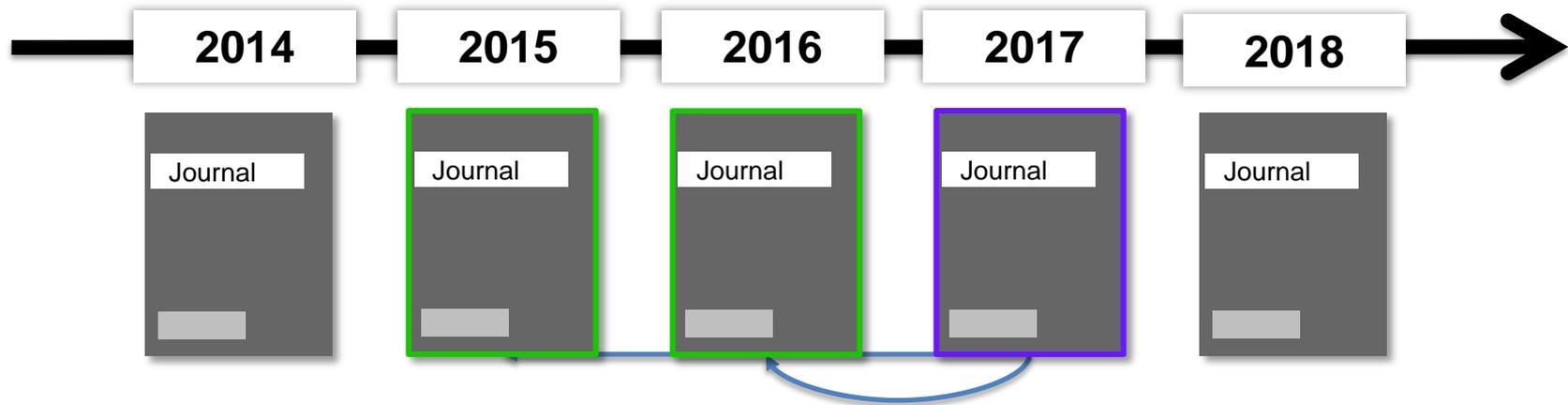
“I want to publish in journals with high rank and prestige”

JCR covers only Sciences & Social Sciences Journals



The world well-known Journal Impact Factor, a 40+ years old measure of journal prestige

2017 Impact Factor: Ratio of citations from 2017 to papers published in 2015 and 2016 to papers published in 2015 and 2016



Cites in 2017 to items published in:	2016 = 879	Number of items published in:	2016 = 214
	2015 = 1054		2015 = 218
	Sum: 1933		Sum: 432

Calculation= $\frac{\text{Cites to recent items}}{\text{Number of recent items}} = \frac{1933}{432} = 4.475$

Journal Impact Factor is Proprietary to Clarivate



IMPACT FACTORS/RATING

Global Impact Factor: 0.566 [2012], 0.654 [2013], 0.765 [2014], 0.876 [2015]
Scientific Journal Impact Factor: 3.847
Universal Impact Factor: 0.971
Scientific Indexing Service Impact Factor: 1.091
Index Copernicus Value: 7.20 [2012], 7.23 [2013]
Ministry of Science and Higher Education, Poland Journal Rating: 6.00
JourInfo Journal Rating: 3.847
Journal Quality Indicator of India (JQII): 0.083



institute for Information Resources

News Updates Due to large number of application please allow us time to update your journal

Universal Impact Factor

Scientifically derived Journal Impact Factor

About Us :

Universal Impact Factor (UIF) is founded for improving Impact Factors of journals with the help of its growing article database. A huge database of articles from various countries in different disciplines helps providing quality information to the researchers.

Web of Sci
Trust the differ

UIF maintains academic database services to researchers, journal editors and publishers. UIF focuses on : citation indexing, citation analysis, and maintains citation databases covering thousands of academic journals. Also UIF provides a detailed report of individual journal for further improvement of respective journal overall look up and technical aspect for better Impact Factor.

JOURNAL OF MICROMECHANICS AND MICROENGINEERING



Impact Factor

1.888 **1.954**
2017 5 year

View summary journal information within the Web of Science interface

JCR® Category	Rank in Category	Quartile in Category
ENGINEERING, ELECTRICAL & ELECTRONIC	128 of 260	Q2
INSTRUMENTS & INSTRUMENTATION	28 of 61	Q2
NANOSCIENCE & NANOTECHNOLOGY	66 of 92	Q3
PHYSICS, APPLIED	66 of 146	Q2

Data from the 2017 edition of [Journal Citation Reports](#)

Publisher

IOP PUBLISHING LTD, TEMPLE CIRCUS, TEMPLE WAY, BRISTOL BS1 6BE, ENGLAND

ISSN: 0960-1317

eISSN: 1361-6439

Research Domain

- Engineering
- Science & Technology - Other Topics
- Instruments & Instrumentation
- Physics

View complete data via Journal Citation Reports link

Close Window

Note online

Add to Marked List

2 of 1,638

Citation Network

In Web of Science Core Collection

0

Times Cited

Create Citation Alert

43

Cited References

View Related Records

Use in Web of Science

Web of Science Usage Count

9

Last 180 Days

9

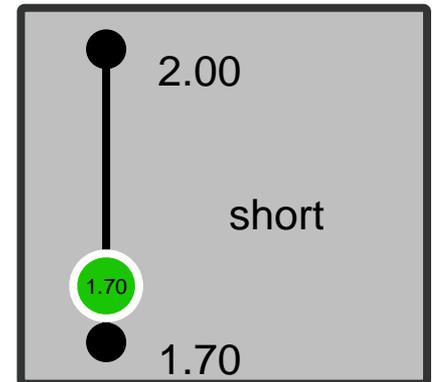
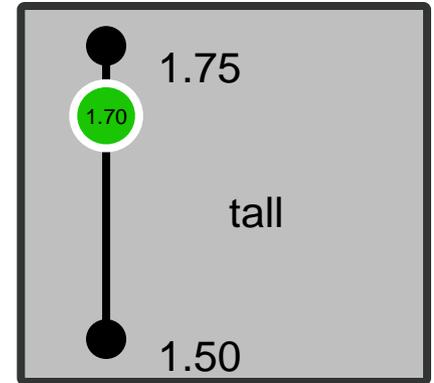
Since 2013

Learn more

ed 3D printing. The 3D printing of
A real-time heating base is employed to
the structural integrity of printed features
link travels on the base. The
e desirable for charge storage. The final
th a polyvinyl alcohol-H3PO4 gel
e-discharge measurements, showing an

CONTEXT IS EVERYTHING!

IS **1.70m** tall or short?



Aseaner mentioned in this infographic is Cambodia, Indonesia, Malaysia, Philippines, Singapore, Thailand and Vietnam. For three other countries, which are Japan, Netherlands, and United States, are used as standard.

2014 ASEAN average HEIGHT

ส่วนสูงเฉลี่ยของชาวอาเซียน



HEIGHT

by country

[www.facebook.com/ASEAN DNA](http://www.facebook.com/ASEANDNA)



The Tallest
184 cm. NETHERLANDS

176 cm. USA

Global Male Average Height

173 cm.

MALE

Average Height

171 cm. JAPAN SINGAPORE

170 cm. THAILAND

ASEAN Male Average Height
165 cm. MALAYSIA

163 cm. CAMBODIA

162 cm. VIETNAM PHILIPPINES

158 cm. INDONESIA



FEMALE

Average Height

162 cm. USA

160 cm. SINGAPORE

159 cm. THAILAND

158 cm. JAPAN

ASEAN Female Average Height

ASEAN Female Average Height

153 cm.

153 cm. MALAYSIA

152 cm. VIETNAM CAMBODIA

150 cm. PHILIPPINES

147 cm. INDONESIA



Global Female Average Height

160 cm.

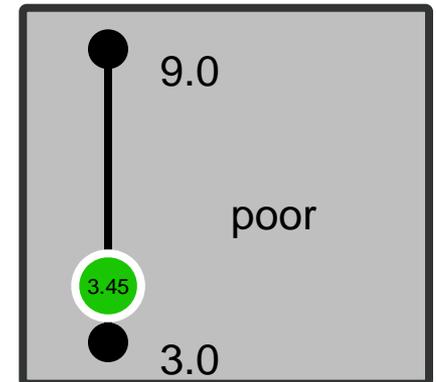
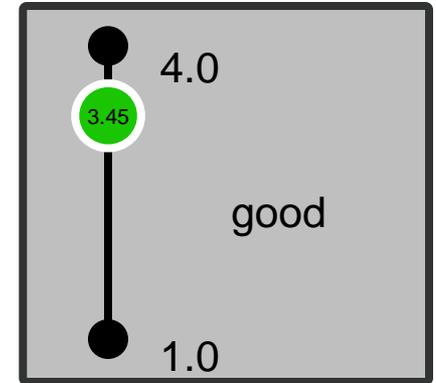
The Tallest

170 cm. NETHERLANDS

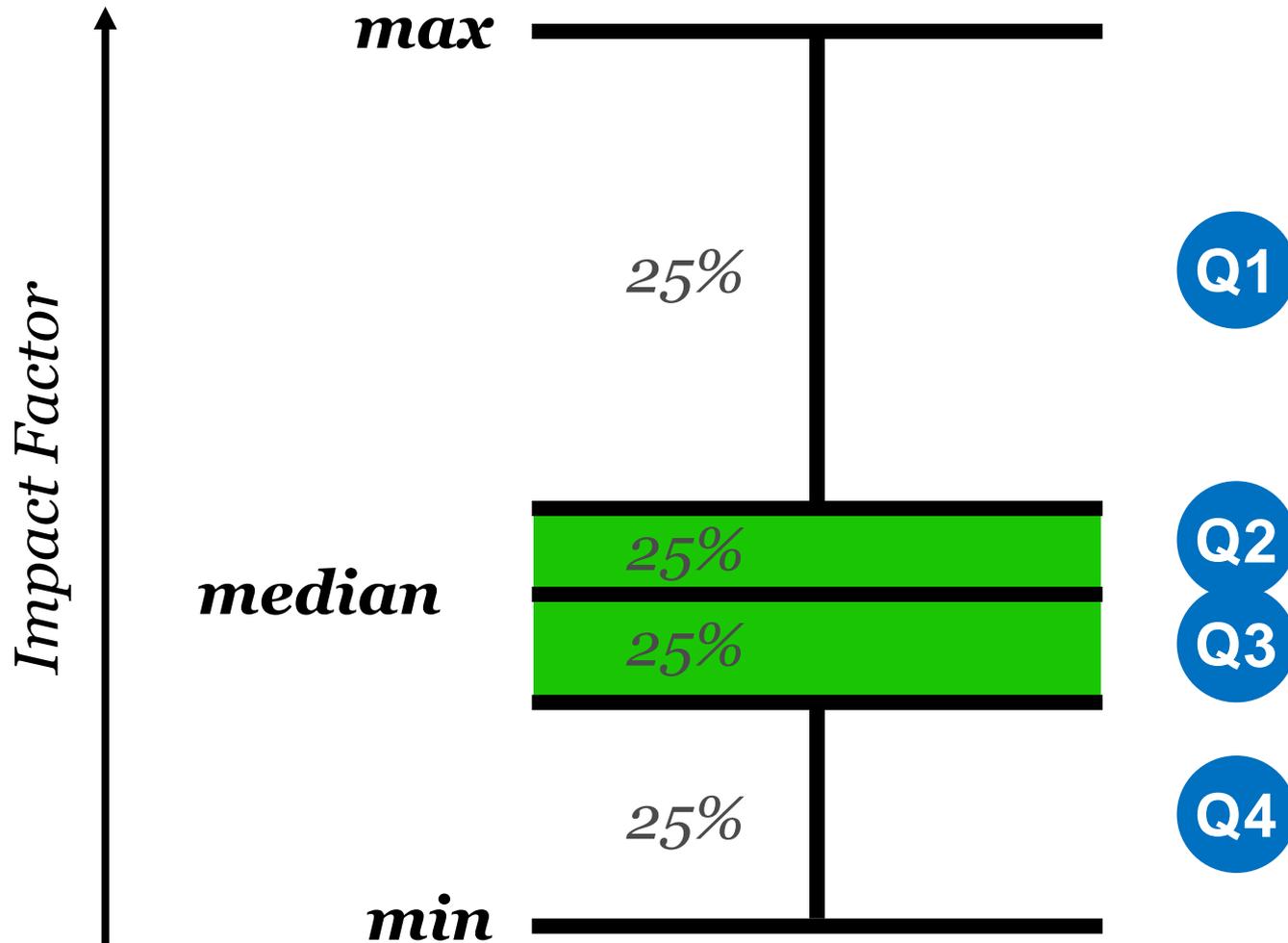


How good an impact factor is depends on subject!

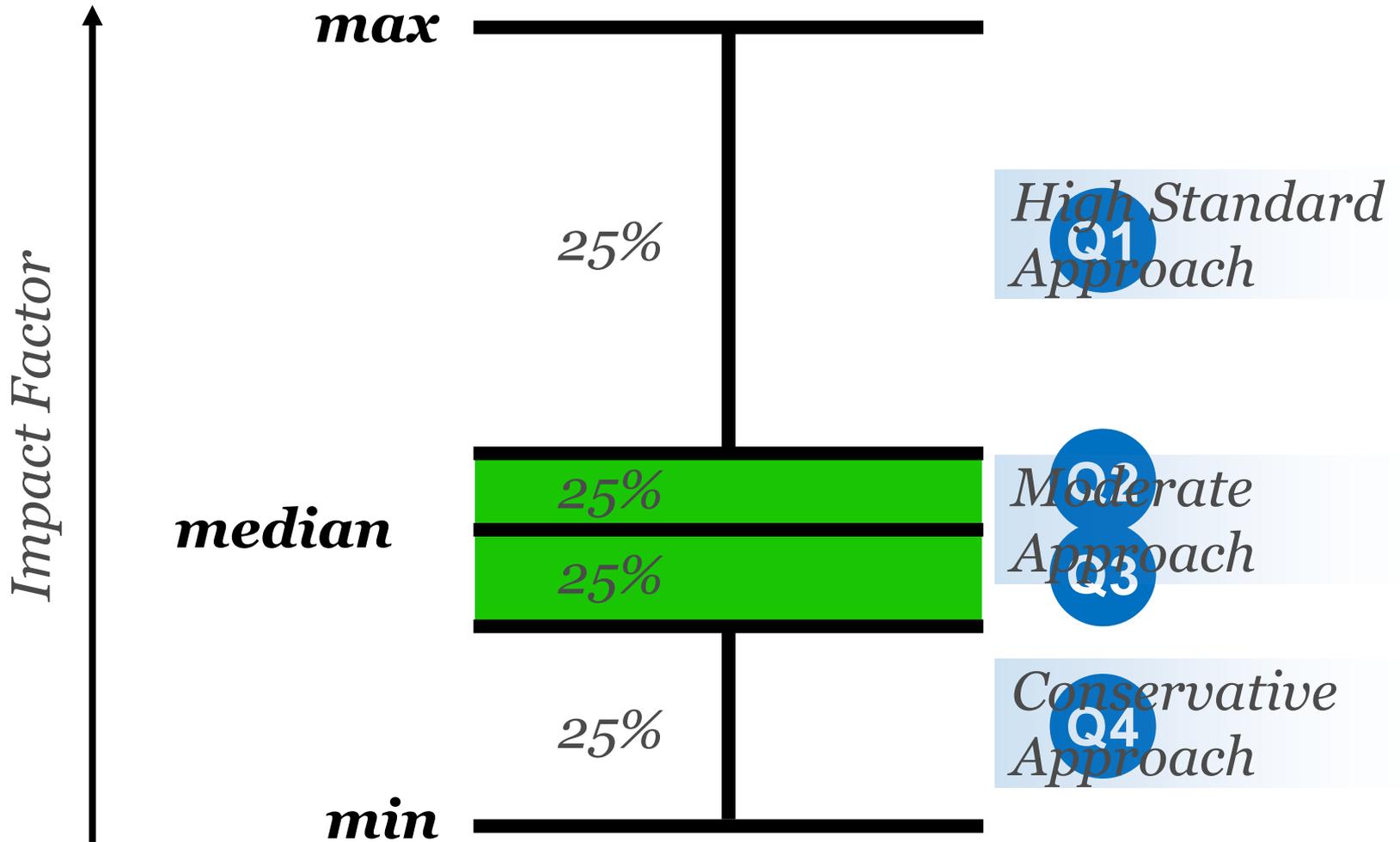
Is an IF of  good or poor?



Journal ranking is subject dependent



Three scenarios for publication strategy



Welcome to Journal Citation Reports

Search a journal title or select an option to get started

Enter a journal name

CHIANG MAI JOURNAL OF SCIENCE|



**Browse by
Journal**



**Browse by
Category**



**Custom
Reports**

JCR Home Page: Journals by Rank

Go to Journal Profile

Master Search

Journals By Rank

Categories By Rank

Journal Titles Ranked by Impact Factor

See all journals in JCR

Many indicators are available

Show Visualization +

Compare Selected Journals

Add Journals to New or Existing List

Customize Indicators

View Title Changes

Search for names of journals here

Select Journals

Select Categories

Select JCR Year

2014

Select Edition

SCIE SSCI

Open Access

Open Access

Category Schema

Web of Science

		Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score
<input type="checkbox"/>	1	CA-A CANCER JOURNAL FOR CLINICIANS	18,594	144.800	0.06273
<input type="checkbox"/>	2	NEW ENGLAND JOURNAL OF MEDICINE	268,652	55.873	0.67634
<input type="checkbox"/>	3	CHEMICAL REVIEWS	137,600	46.568	0.22401
<input type="checkbox"/>	4	LANCET	185,361	45.217	0.39555
<input type="checkbox"/>	5	NATURE REVIEWS DRUG DISCOVERY	23,811	41.908	0.06017
<input type="checkbox"/>	6	NATURE BIOTECHNOLOGY	45,986	41.514	0.14914
<input type="checkbox"/>	7	NATURE	617,363	41.456	1.49869
<input type="checkbox"/>	8	Annual Review of Immunology	16,750	39.327	0.04556
<input type="checkbox"/>	9	NATURE REVIEWS MOLECULAR CELL BIOLOGY	35,928	37.806	0.11242

JCR Home Page: Categories by Rank

Go to Journal Profile

Journals By Rank

Categories By Rank

Show all 230+ categories

Journals in ENGINEERING, ELECTRICAL & ELECTRONIC

Go to Journal Profile

Master Search



Journals By Rank

Categories By Rank

Journal Titles Ranked by Impact Factor

Show Visualization +

Compare Journals

Compare Selected Journals

Add Journals to New or Existing List

Customize Indicators

View Title Changes



Select Journals

Select Categories

Select JCR Year

2014

Select Edition

Select All

Full Journal Title

Total Cites

Journal Impact Factor

Eigenfactor Score



1

IEEE TRANSACTIONS ON FUZZY SYSTEMS

8,581

8.746

0.01281



2

IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS

27,141

6.498

0.06333



3

IEEE TRANSACTIONS ON POWER ELECTRONICS

21,131

6.008

0.04013



4

IEEE SIGNAL PROCESSING MAGAZINE

5,989

5.852

0.01478

Journal Citation Reports

“I aim for journals that get cited very quickly”

JIF is not the only metric for journal ranking

IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS

ISSN: 1536-1276

IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC

445 HOES LANE, PISCATAWAY, NJ 08855-4141

USA

[Go to Journal Table of Contents](#)

[Go to Ulrich's](#)

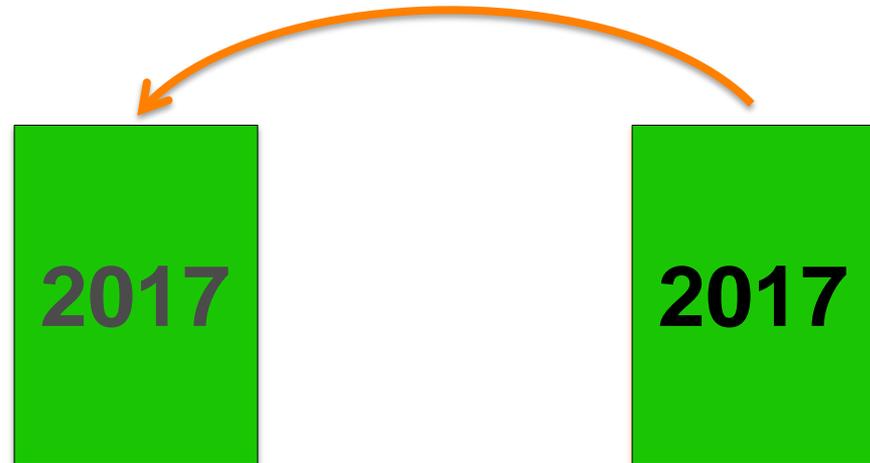
Key Indicators

Year ▾	Total Cites Graph	Journal Impact Factor Graph	Impact Factor Without Self Cites	5 Year Impact Factor Graph	Immediacy Index Graph	Citable Items Graph	Cited Half-Life Graph	Citing Half-Life Graph	Eigenfactor Score Graph	Article Influence Score Graph	% Articles in Citable Items Graph	Normalized Eigenfactor Graph	Average JIF Percentile Graph
2015	14,067	2.925	2.380	3.160	0.451	543	6.0	6.0	0.05829	1.592	100.00	100.00	90.703
2014	12,617	2.496	2.033	2.820	0.352	546	7.0	7.0	0.03447	1.326	100.00	100.00	86.287
2013	13,350	2.762	2.344	3.265	0.219	556	5.0	8.0	0.03743	1.296	100.00	100.00	82.065
2012	10,702	2.418	2.105	2.744	0.212	448	8.4	8.4	0.05706	1.194	100.00	100.00	81.793
2011	9,657	2.586	2.230	2.627	0.260	458	5.8	5.8	0.05534	1.115	100.00	Not A...	90.703
2010	9,052	2.152	1.923	2.679	0.245	413	5.9	5.9	0.04519	0.891	100.00	Not A...	86.287
2009	6,721	1.903	1.532	2.570	0.169	712	5.8	5.8	0.04520	1.004	100.00	Not A...	82.065
2008	6,277	2.181	1.905	3.324	0.127	630	3.7	5.8	0.04019	1.094	100.00	Not A...	81.793
2007	2,350	1.234	1.091	2.021	0.091	53	6.1	6.1	0.02031	1.376	100.00	Not A...	77.301
2006	1,383	1.184	0.969	Not A...	0.077	427	2.9	6.8	Not A...	Not A...	100.00	Not A...	74.118
2005	926	1.553	1.237	Not A...	0.205	522	2.5	6.4	Not A...	Not A...	100.00	Not A...	79.076

Clarivate Analytics stance on metrics:
Always use **multiple metrics** for a thorough understanding!

Immediacy Index is also understood to be “1 year Impact Factor”

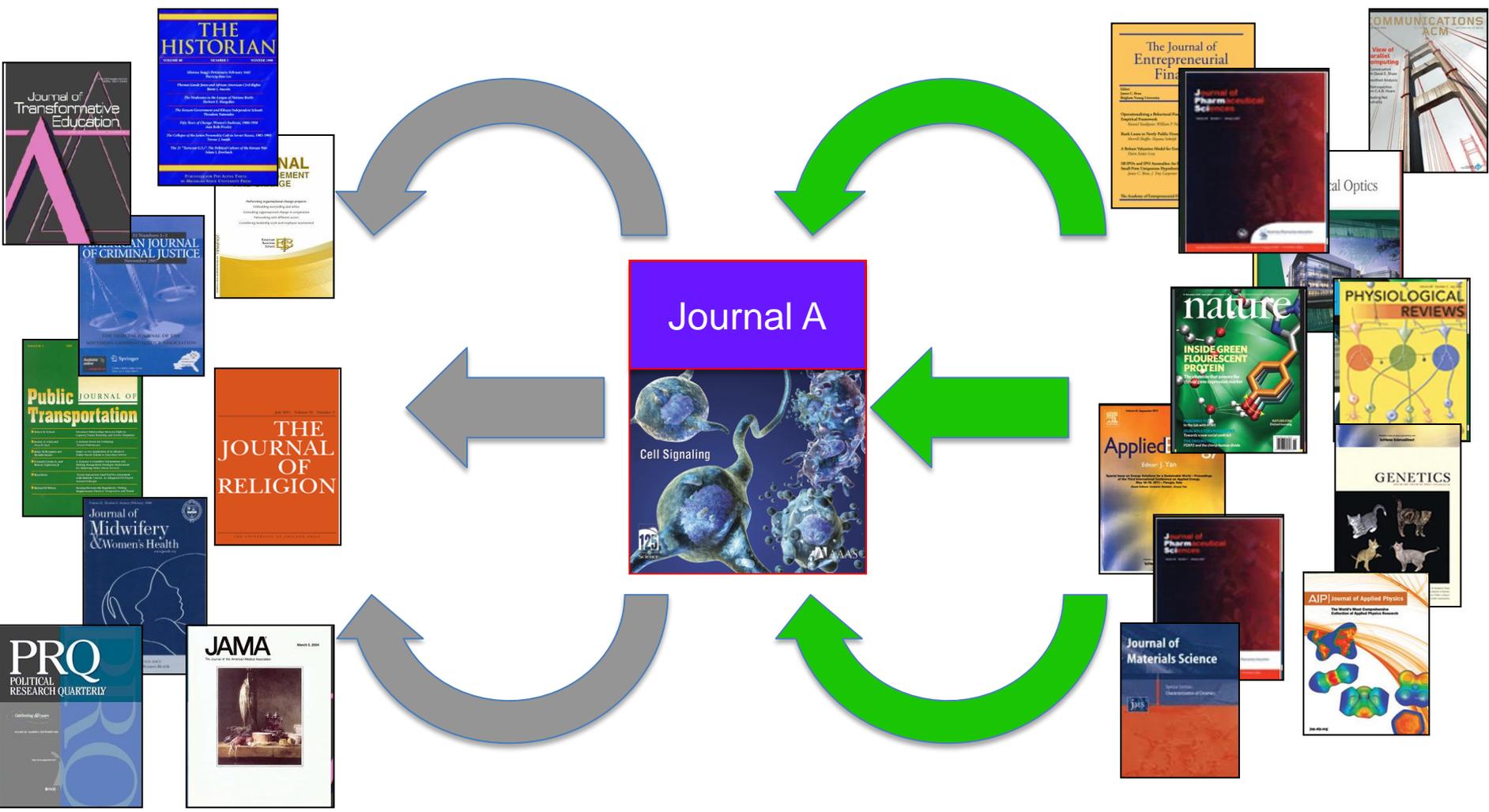
$$\text{Immediacy Index}_{2017} = \frac{\text{\# of citations to all items published in 2017}}{\text{Articles \& reviews published in 2017}}$$



Journal Citation Reports

“I want to publish in journals that gets cited for a long time”

Journal Relationships Look at how Journals interact With Other Journals



We Trust *sources which the journal was **citing***

*sources which **cited** the journals*

Journal Relationships Look at how Journals interact With Other Journals

• Cited Journal Data

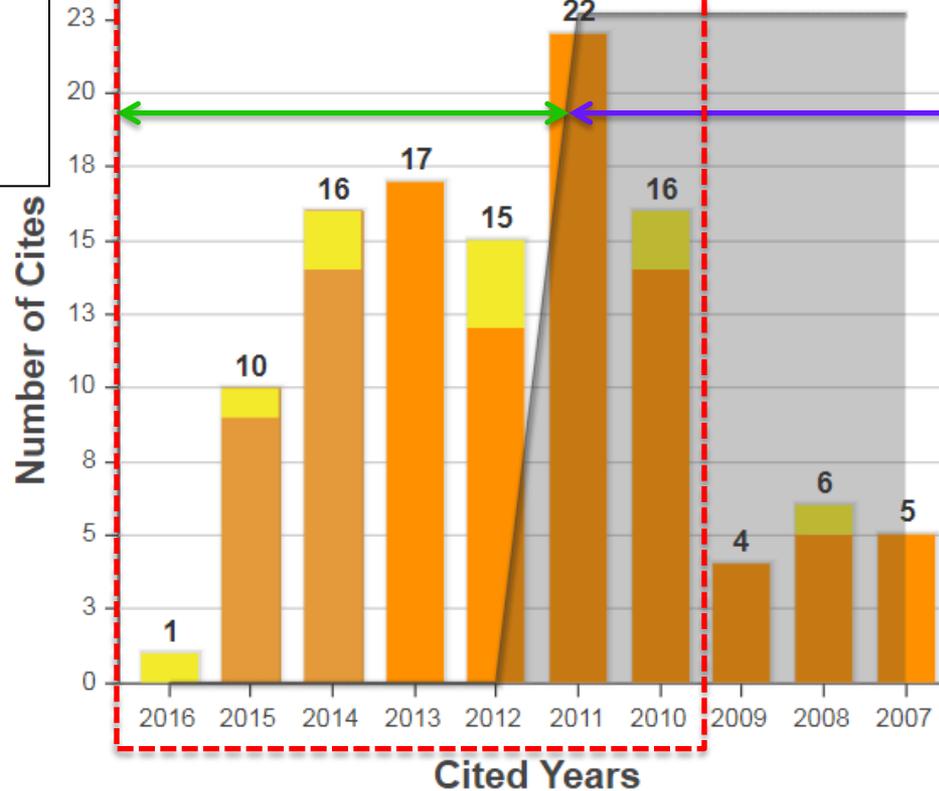
- What journals cite this one?
- Age of materials cited?
- Cited Half-life



*sources which
cited the journals*

Cited Journal Graph shows you the number of citations to each year

Cited Journal Graph



50% of materials cited in 2016 is ~5 years of age or less

Rest of cited materials in 2016 are older

Roughly speaking, after 5 years, half of your articles will still be cited.

Cited Half-Life is an important Metric!

Cited Half-Life >10 Years!



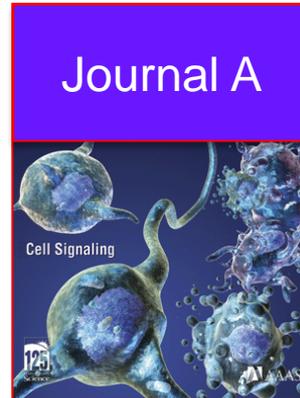
While the impact factor of the *Journal of Molecular Spectroscopy* has continued to increase over the past three years, it is interesting to note that the articles published in the journal continue to be cited over a long period of time. The **cited half-life** for the journal is **more than 10 years!**

This means that even after 10 years 50% of your articles published in our journal will still be cited, illustrating the importance and longevity of the articles published in the *Journal of Molecular Spectroscopy*.

Journal Relationships Look at how Journals interact With Other Journals

• Citing Journal Data

- What journals do this journal cite?
- Age of materials cited?
- Citing Half-life



Journals dealing with up-to-date topics will have a short citing half-life.

Long citing half-life indicates journal topics are slow moving.

*sources which the journal was **citing***

We
Trust

For more information on how to use journal metrics

<http://stateofinnovation.com/best-practices-for-journal-evaluation>

<http://stateofinnovation.com/the-eigenfactor-score-journal-impact-in-context>

<http://clarivate.com/a-closer-look-at-cited-and-citing-half-lives/>

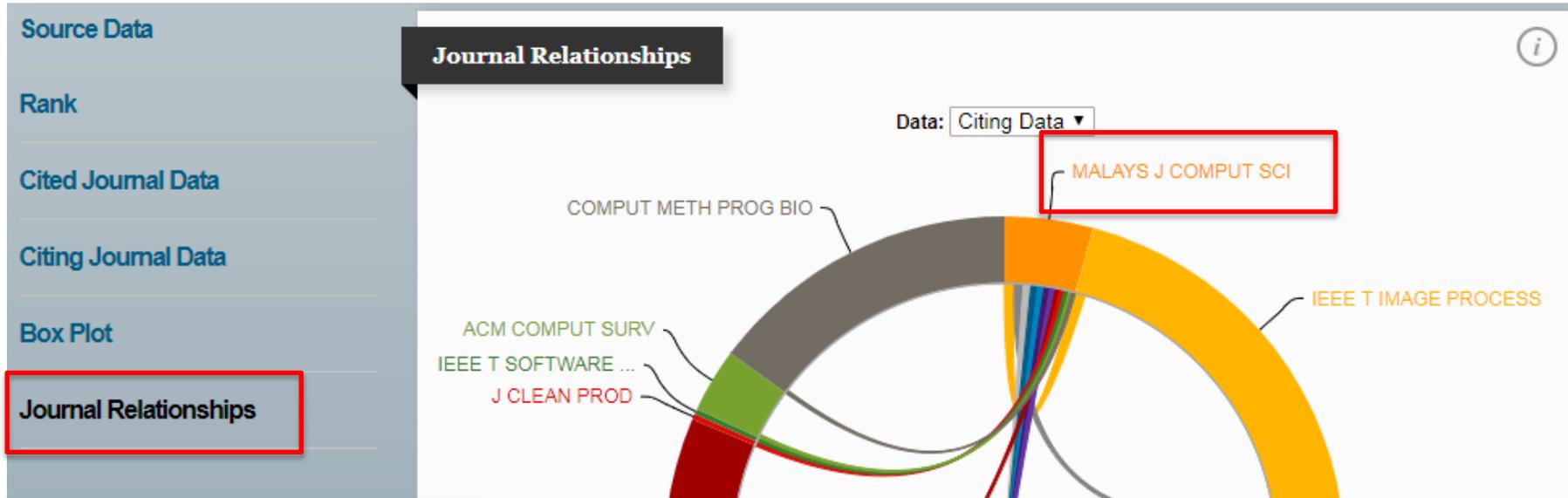
<http://eigenfactor.org/>

Note: Metrics such as Impact Factor is useful but they DO NOT replace human expertise.

Bonus!

How do you find related journals quickly?

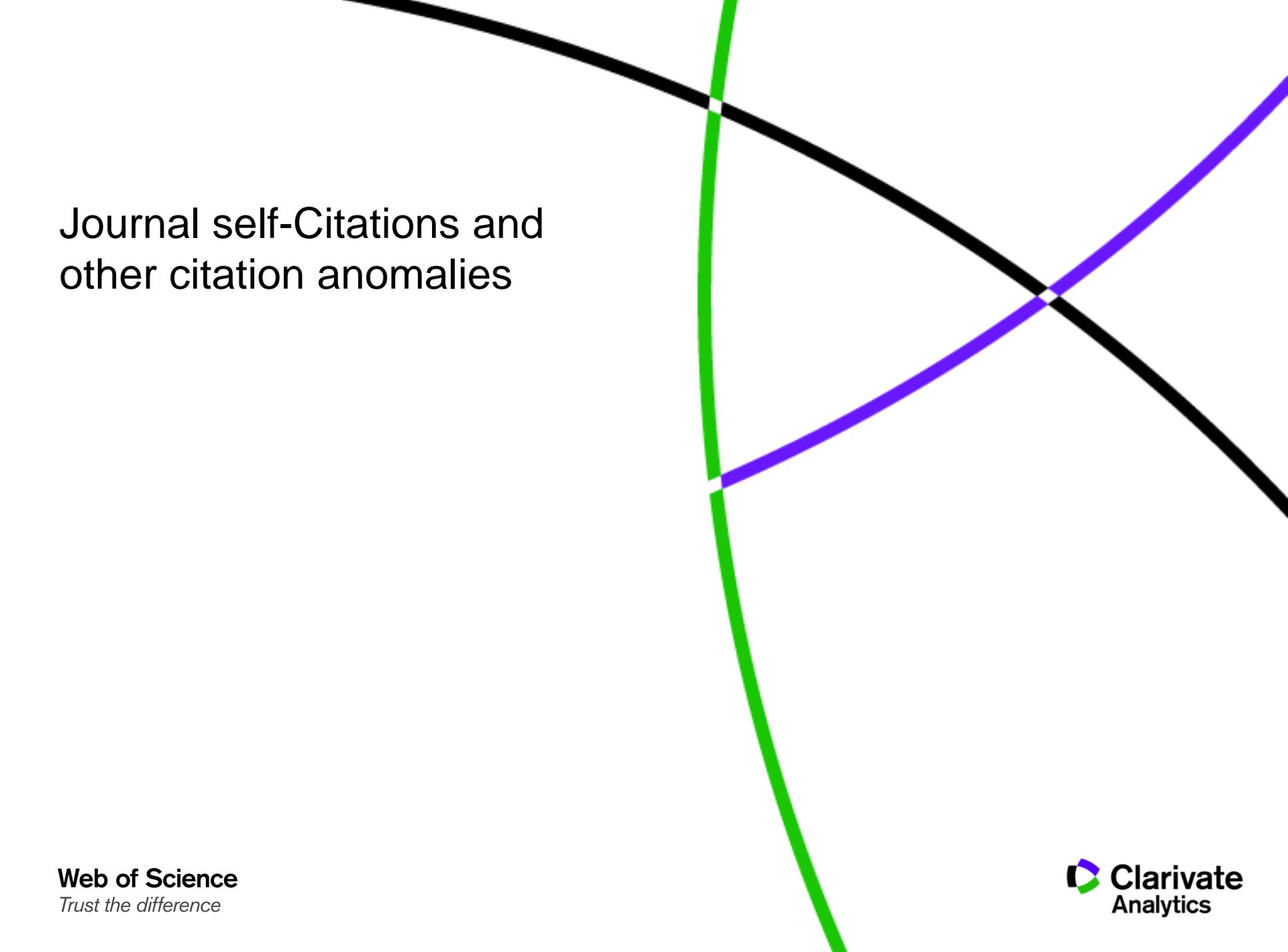
Journal Relationships show you how journals interact



In this example, you can see journals related to Malaysian Journal of Computer Science.

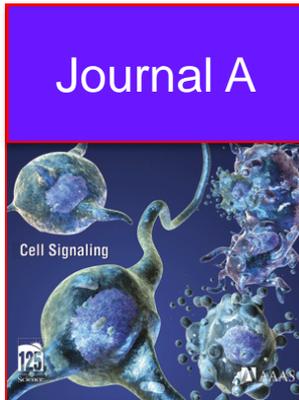
Librarians use this for collection management.

Researchers use this to find related journals to submit their work.



Journal self-Citations and other citation anomalies

Self-citations are items citing another item in the same journal



This counts of 3 journal self-citations for Journal A

This counts as a citation to Journal B.

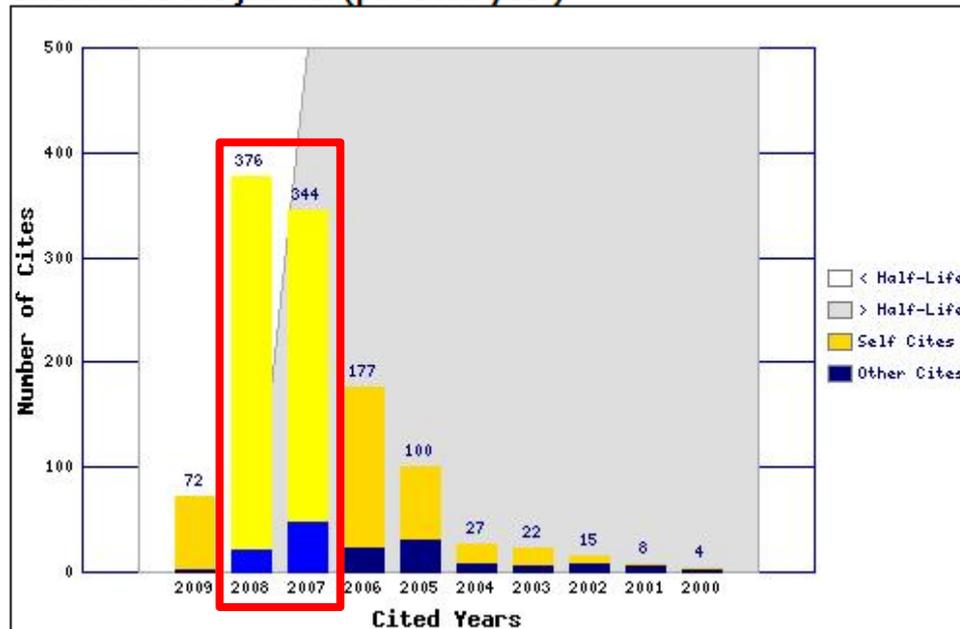


Journals with Excessive Self-Citations Will be Suppressed

Journal: Revista Brasileira de Farmacognosia-Brazilian Journal of Pharmacognosy

Total Cites	1163
Cites to Years Used in Impact Factor Calculation	720
Impact Factor	3.462

Citations to the journal (per cited year)



Effect of Self Citations
on rank in category:

From Q1

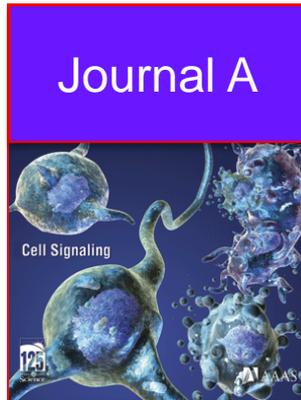
To Q4

- Chemistry, Medicinal
- Pharmacology & Pharmacy

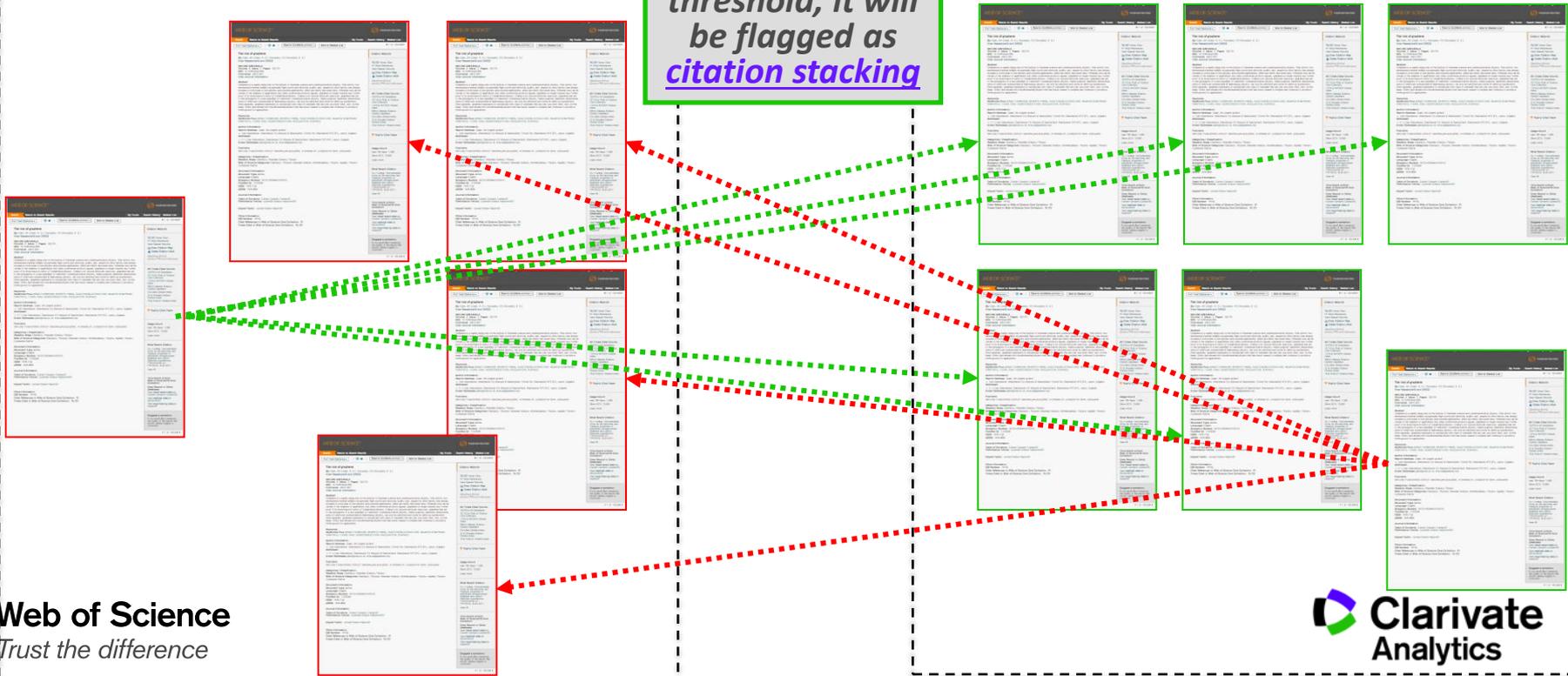
Journal was suppressed from 2010.

Source: 2010 Journal Citation Reports

Citation stacking is a pair of journals with high citation rates between them



If this passes a threshold, it will be flagged as citation stacking



Where to Find Information on Journal Suppression?

Clarivate is the ONLY database provider that monitors journals



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▶ Abbreviations

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▶ Glossary - A to Z

TITLE SUPPRESSIONS

Metrics for the titles listed below are not published due to anomalous citation patterns found in the 2014 citation data. These patterns result in a significant distortion of the Journal Impact Factor and rank that does not accurately reflect the journal's citation performance in the literature. The Journal Impact Factor provides an important and objective measure of a journal's contribution to scholarly communication. In the interest of fairness and accuracy for all journals, the distortion of the Journal Impact Factor by an excessive concentration of citations gives rise to the need for suppression. JCR staff will monitor these journals going forward and the titles will be included in a future edition of JCR when the anomalous patterns are resolved. Coverage of these journals in Web of Science and other Thomson Reuters products is not immediately affected by suppression from the JCR, however, the titles may be subject to review to determine if they continue to meet the quality and publication standards necessary for inclusion in Web of Science. More information on journal suppression is available at: <http://wokinfo.com/media/pdf/jcr-suppression.pdf>.

A list of title suppressions for previous years can be downloaded [here](#).

JCR Title	Full Title	Type
AMFITEATRU ECON	Amfiteatru Economic	Self
ANAT SCI EDUC	Anatomical Sciences Education	Self
APPL INTELL	Applied Intelligence	Self
ARAB J SCI ENG	Arabian Journal for Science and Engineering	Self
ARCH MIN SCI	Archives of Mining Sciences	Self
B INDONES ECON STUD	Bulletin of Indonesian Economic Studies	Self

<http://ipscience-help.thomsonreuters.com/incitesLive/JCRGroup/titleSuppressions.html>

Clarivate is the ONLY database provider that monitors journals

Self Citation Suppressed Titles with Key Data Points*

This table lists the categories for each journal (note that each journal may be included in multiple categories), the percentage of citations in the Journal Impact Factor numerator that are self cites, and the distortion in category rank due to self cites. The distortion in category rank is based on analysis of all journals in all categories of the JCR ranked both with and without the inclusion of self cites. Here distortion equals the percentage shift in rank with self cites included versus excluded.

Full Title	Category	% Self cites in JIF numerator	% Distortion of category rank
Amfiteatru Economic	Economics	73%	37%
Anatomical Sciences Education	Education, Scientific Disciplines	59%	28%

Citation Stacking Suppressed Titles with Key Data Points*

This table lists the recipient and donor journal pairs along with the percentage of citations in the Journal Impact Factor numerator that are from the donor to the recipient (x% of the JIF Numerator cites to Recipient journal from Donor journal). The percentage exchange to the Journal Impact Factor years is the proportion of all citations from donor to recipient (all years) that reference the two years considered in the Journal Impact Factor calculation (x% of all citations from Donor to Recipient were concentrated in the Journal Impact Factor years).

Recipient Journal	Donor Journal	% JIF Numerator	% Exchange to JIF Years
JPC-Journal of Planar Chromatography-Modern TLC	Central European Journal of Chemistry	42%	84%
Enterprise Information Systems	IEEE Transactions on Industrial Informatics	43%	82%

<http://wokinfo.com/media/pdf/jcr-suppression.pdf>

JCR Quiz - True/False questions

JCR contains many journal metrics for various publishing strategies

True! No single metric is perfect. Depending on what your publishing strategy is, JCR has different metrics to assist in your decision making process.

JCR covers Science, Social Sciences and Arts & Humanities journals.

False! JCR does not cover Arts & Humanities journals as citation analysis is less useful in those subjects.

JCR Quiz - True/False questions

Clarivate Analytics invents new journal metrics to make their own journals look better than competing journals.

False! Clarivate does not own any journals and is neutral in its metric calculation methods.

Clarivate Analytics take decisive actions for journals with citations anomalies.

True! Clarivate monitors its database and is the ONLY database provider that has a history of annual deselections.

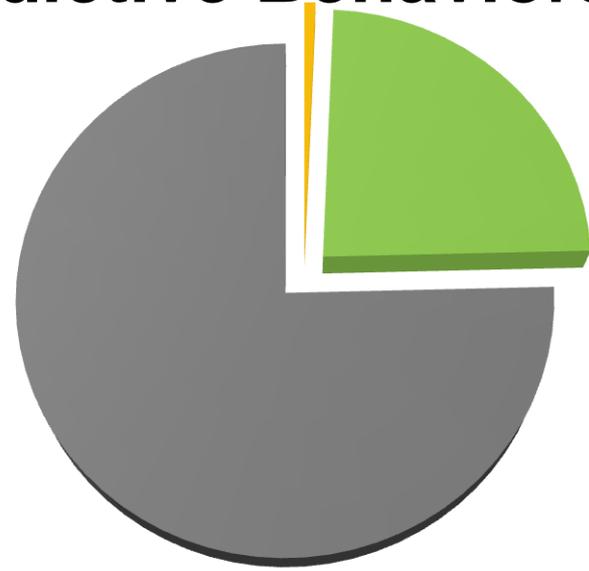
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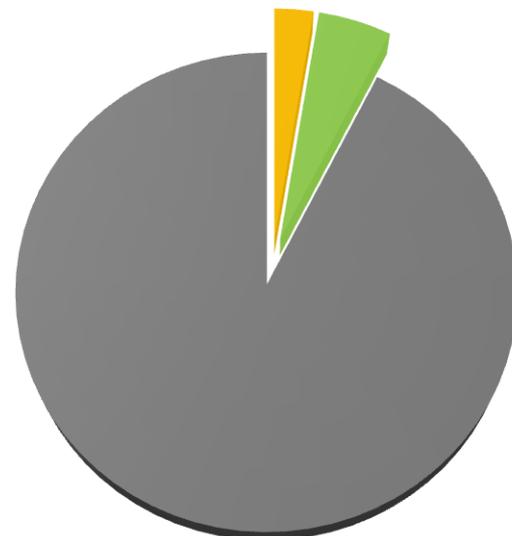
Cell



Addictive Behaviors



Applied Physics Letters



■ Gold ■ Green ■ Toll

Librarian Use Cases



- **Tracking Institution research output**
 - Search using “**Organization-Enhanced**”
 - Create “**Alert**” to be informed of new papers
 - “**Create Citation Report**” to see trends and citation performance
 - Records can be saved in “**Marked Lists**” or downloaded into text/excel files
- **Find journals important for your institution**
 - Search using “**Organization-Enhanced**”
 - Analyze search results by “**Source Titles**”

Librarian Use Cases

- **Analyzing Open Access papers**
 - Search using “**Publication Name**”
 - Restrict to “**Open Access**” papers on left hand panel
 - Use Open Access information to help in collection development decisions (**why should you pay for free papers?!**)



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