Web of Science Group

A Clarivate Analytics company

Getting and understanding different metrics from Web of Science

Marcin Kapczyński
Solutions Specialists and Customer Education

Reliable metrics require reliable data

What data?

The reliability of all analysis is directly linked to the quality and curation of the data you will use.

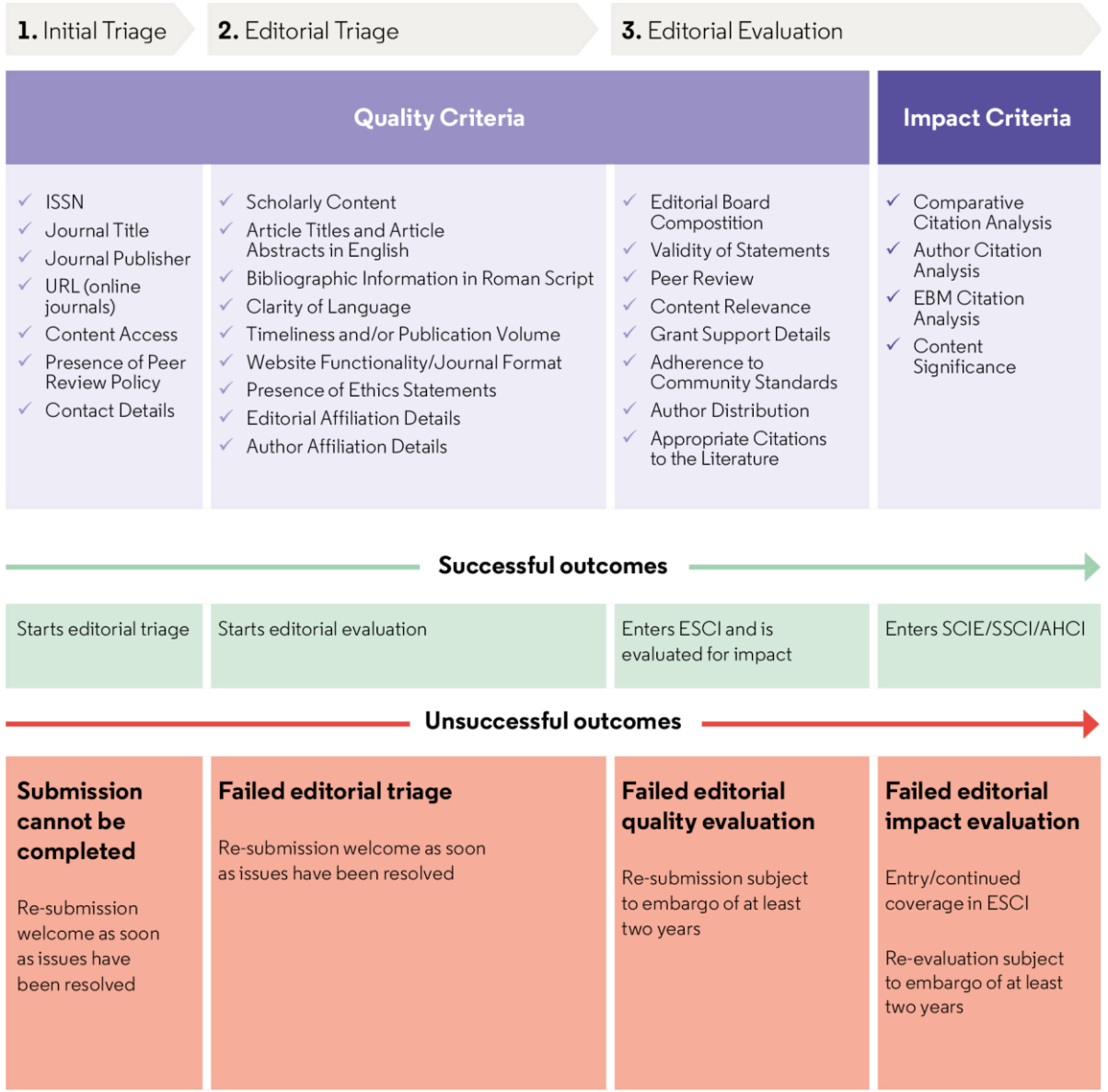
The Web of Science Core Collection is a trusted, high quality collection of journals, books and conference proceedings

Disciplinary and geographical coverage has to be balanced and should be a true reflection of the research community publication activities.

Sources are carefully selected by our editorial team, and decisions are made by our expert in-house editors, with no affiliations to publishing houses or research institutes.

For the last 60 years, bibliographic metadata (all authors, affiliations, cited references, etc.) has been meticulously captured with the same policy, across the entire archive. This eliminate gaps issues and ensures the stability of the data throughout the years.

40 years of publication activities, with full cited references and consistent bibliographic metadata



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Bibliometrics – Importance of data and metadata

Need to rely on **validated and complete** data, as well as **systematically captured** metadata leading to accurate analysis helping to make informed and meaningful decisions.

Using only selected and evaluated sources

	Complete capture of PUBLICATIONS	Complete capture of CITED REFERENCES	Complete capture of ADDRESSES	Complete capture of AUTHORS
COUNTRY Analysis	☑	☑	☑	☑
DISCIPLINE Analysis	☑	☑	☑	☑
UNIVERSITY Analysis	☑	☑	☑	☑
AUTHOR Analysis	☑	☑	☑	☑
COLLABORATION Analysis	☑	☑	☑	☑

Data and Metadata Capture

Indexing Cover-to-Cover

Every issue of any covered journal is indexed with no content gaps.

Every item of any published issue is indexed (all contributions within a given journal are included).

Indexing Authors & Affiliations

All authors in a published paper are captured and receive "full credit", whether listed first or last in the publication.

All affiliations (institutions) in a published paper are captured, regardless of the quantity.

Indexing Cited References

Articles can be listed in WoS-CC in two ways: as a "source" article and as a "cited reference".

Every cited reference is indexed whether it refers to a covered source or to a source that is not covered.

Data and Metadata Capture & Enrichment

1,7 Billion cited references

Biological insights from 108 schizophrenia-associated genetic loci

Associated Data

By: Ripke, S (Ripke, Stephan)[1,2]; Neale, BM (Neale, Benjamin M.)[1,2,3,4]; Corvin, A (Corvin, Aiden)[5]; Walters, JTR (Walters, James T. R.)[6]; Farh, KH (Farh, Kai-How)[1]; Holmans, PA (Holmans, Peter A.)[6,7]; Lee, P (Lee, Phil)[1,2,4]; Bulik-Sullivan, B (Bulik-Sullivan, Brendan)[1,2]; Collier, DA (Collier, David A.)[8,9]; Huang, HL (Huang, Hailiang)[1,3] ...More

Group Author(s): Psychiat Genomics Consortium ; Psychosis Endophenotypes Int Conso ; Wellcome Trust Case-Control Consor

All authors and bibliographic information

Aut	nce ResearcherID	ORCI
Mel		http:/
Myin-Germeys, Inez	I-5100-2014	
So, Hon-Cheong	I-1100-2016	
Jablensky, Assen	H-5116-2014	http:/
Sigurdsson, Engilbert	D-2486-2014	http://orcid.org/0000-0001-9404-7982
Agerbo, Esben	A-2645-2012	http://orcid.org/0000-0002-2849-524X

Abstract

Schizophrenia is a highly heritable disorder. Genetic risk is conferred by a large number of allele detected by genome-wide association studies. Here we report a multi-stage schizophrenia geno controls. We identify 128 independent associations spanning 108 conservatively defined loci tha previously reported. Associations were enriched among genes expressed in brain, providing bio potential to provide entirely new insights into aetiology, but associations at DRD2 and several g molecules of known and potential therapeutic relevance to schizophrenia, and are consistent w genes expressed in brain, associations were enriched among genes expressed in tissues that hav speculated link between the immune system and schizophrenia.

Keywords

KeyWords Plus:

Addresses:

- [1] Massachusetts Gen Hosp, Analyt & Translat Genet Unit, Boston, MA 02114 USA
- [2] Broad Inst MIT & Harvard, Stanley Ctr Psychiat Res, Cambridge, MA 02142 USA
- [3] Broad Inst MIT & Harvard, Med & Populat Genet Program, Cambridge, MA 02142 USA
- [4] Massachusetts Gen Hosp, Psychiat & Neurodev Genet Unit, Boston, MA 02114 USA
- [5] Univ Ireland Trinity Coll, Dept Psychiat, Neuropsychiat Genet Res Grp, Dublin 8, Irela
- [6] Cardiff Univ, Sch Med, MRC Ctr Neuropsychiat Genet & Genom, Inst Psychol Med & Cl
- [7] Cardiff Univ, Natl Ctr Mental Hlth, Cardiff CF24 4HQ, S Glam, Wales
- [8] Eli Lilly & Co Ltd, Erl Wood Manor, Windlesham GU20 6PH, Surrey, England

All affiliations and addresses

Funding

Funding Agency
United States Dep
National Institutes
NIH National Insti

View funding text

All funding sources (2008) manually captured

Citation Network

In Web of Science Core Collection

3,168 Times Cited

Highly Cited Paper

Create Citation Alert

All Times Cited Counts

3,206 in All Databases

See more counts

50 Cited References

View Related Records

Associated Data: 1

View the data associated with this record (from Data Citation Index)

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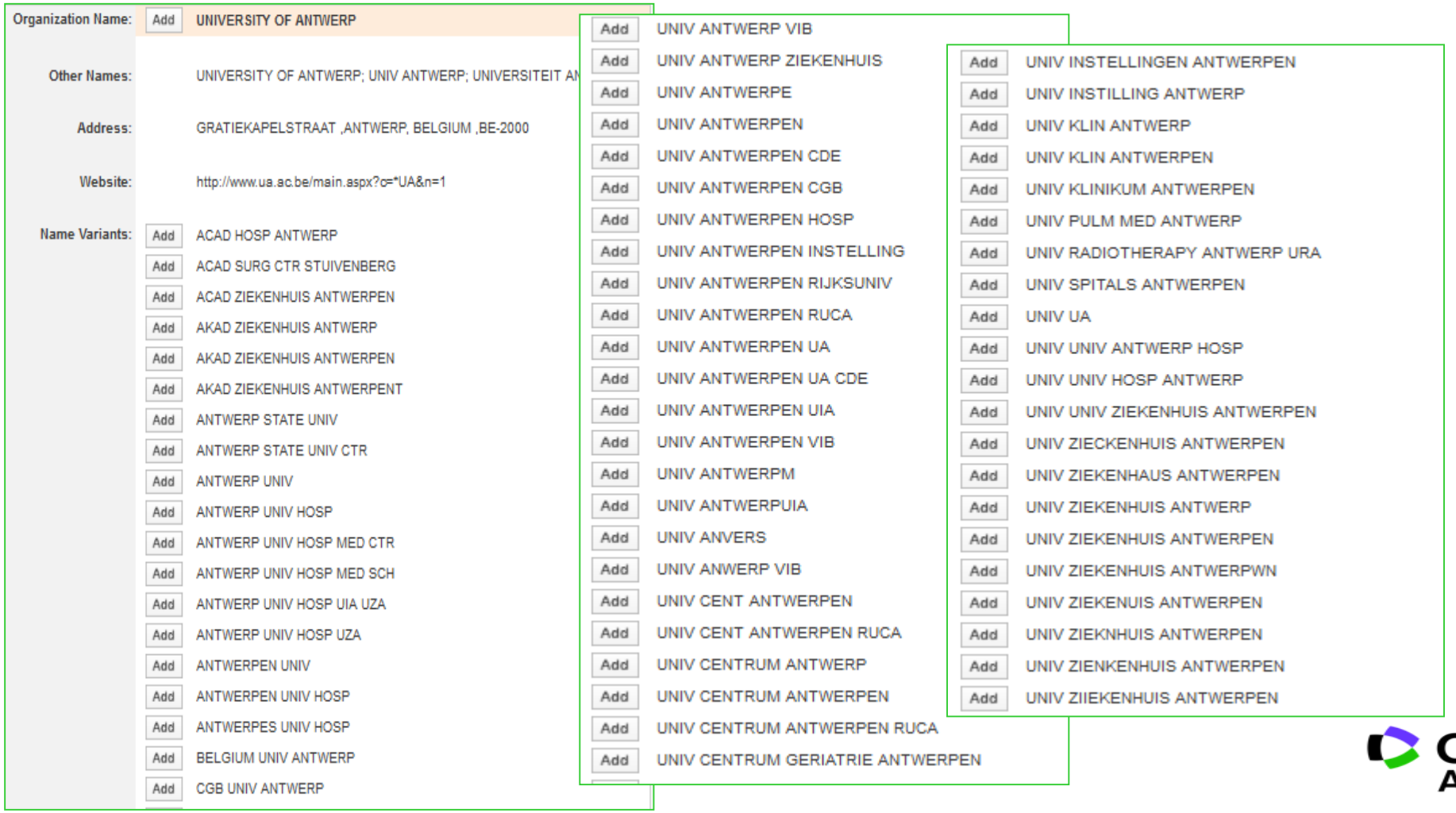
IMPORTANT: Systematically associate the publications with their institutions (unification) and their authors (ResearchID / ORCID)

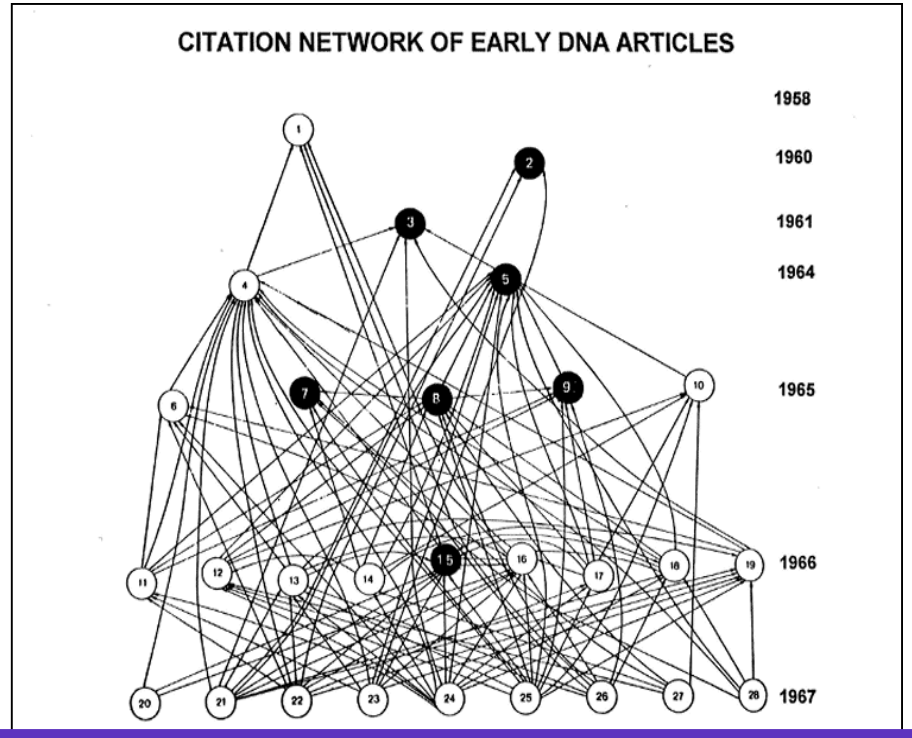
UNIFICATION

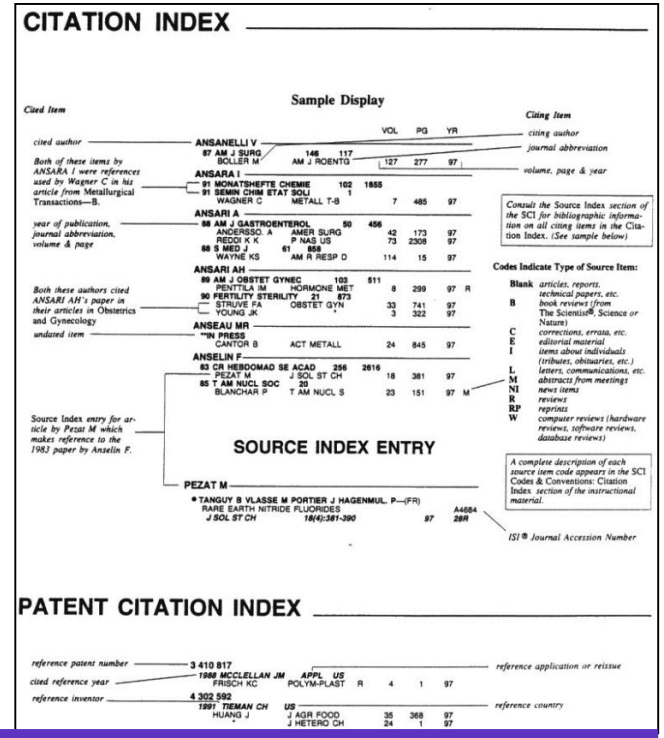


Explore Citations in the Web of Science

The Citation Network

Dr. Eugene Garfield





1955 “ASSOCIATION OF IDEAS INDEX”

Citation Indexes for Science

A New Dimension in Documentation through Association of Ideas

http://garfield.library.upenn.edu/papers/science1955.pdf

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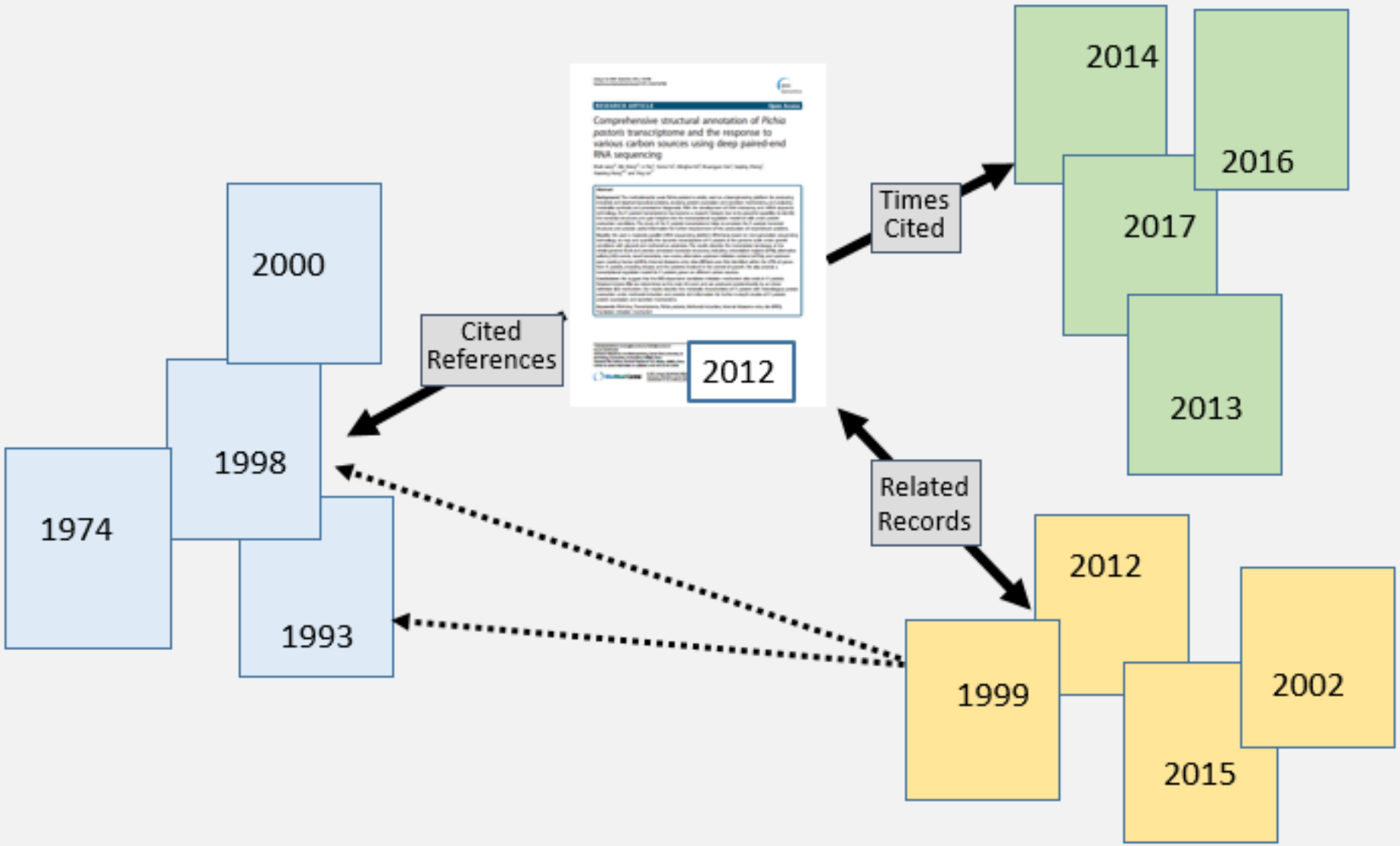
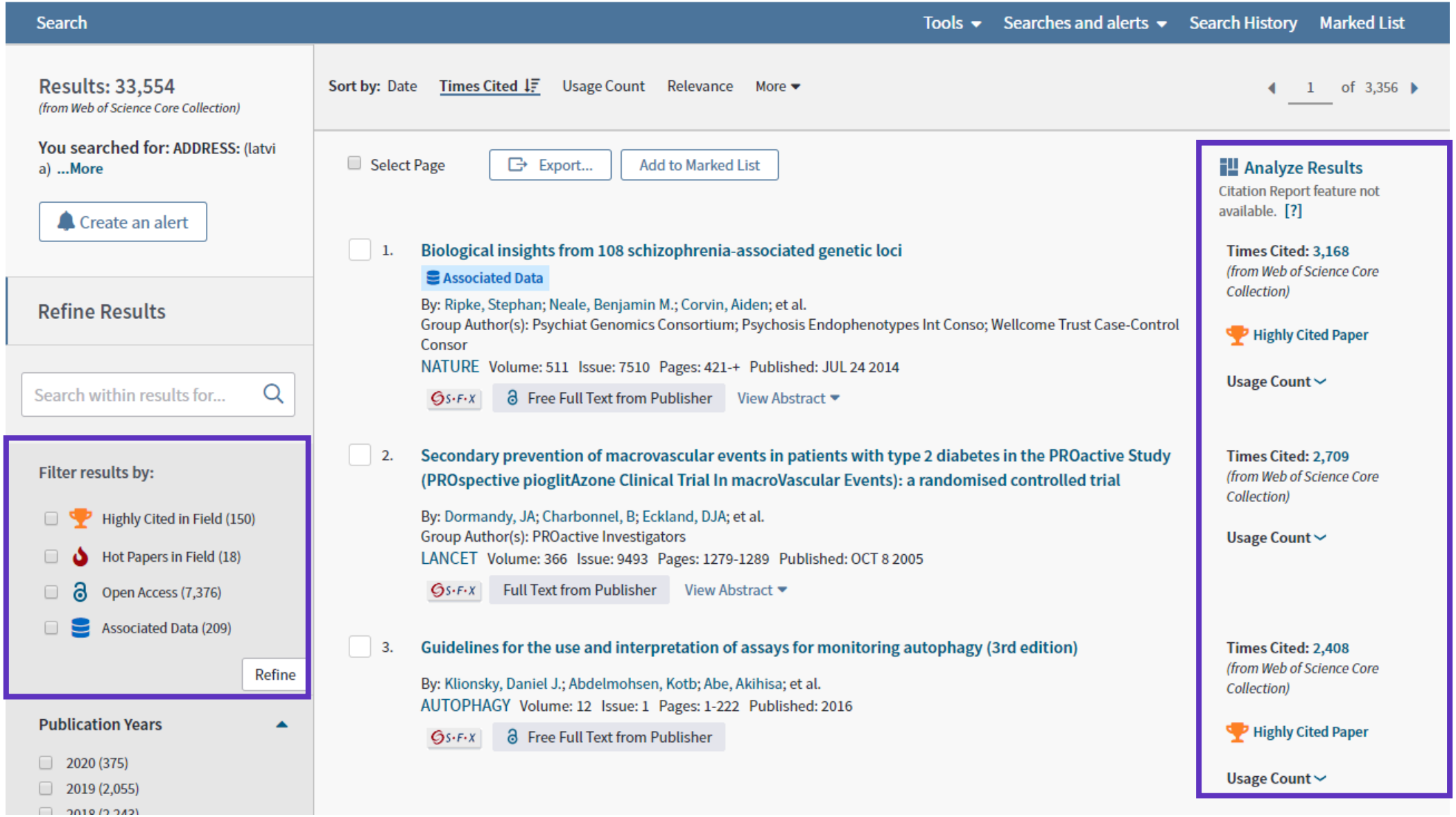
The Citation Network



Citation Network

Web of Science

Clarivate Analytics



Citation Network

Usage Count

By: Kita, A (Kita, Alban)[1]; Cavalagli, N (Cavalagli, Nicola)[1]; Ubertini, F (Ubertini, Filippo)[1]

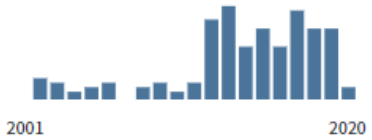
MECHANICAL SYSTEMS AND SIGNAL PROCESSING
Volume: 120 **Pages:** 180-202
DOI: 10.1016/j.ymssp.2018.10.021
Published: APR 1 2019
Document Type: Article
View Journal Impact

Abstract

In recent years, the development of long-term structural health monitoring systems for preventive conservation of historic monumental buildings is receiving a growing trend of scientific interest. Nevertheless, the damage detection effectiveness of these systems is still debated, especially in respect to complex masonry palaces where both local and global failure mechanisms can be activated, whereby the majority of the documented successful applications are limited to masonry towers. In particular, one major issue that needs to be solved in order to derive damage sensitive features is associated to the removal of the effects of changes in environmental conditions and, primarily, of ambient temperature, from static and dynamic signatures. This paper aims to contribute to improving knowledge in this field, by investigating temperature effects on static and dynamic response of an iconic Italian monumental palace: the Consoli Palace in Gubbio. With the purpose of early detecting earthquake-induced damages, as well as damages caused by material degradation associated to awkward environmental conditions, a simple low-cost mixed static and dynamic long-term structural health monitoring system has been installed on the Palace by the authors in July 2017. After discussing surveys, ambient vibration tests, diagnostic investigations, numerical modeling and model calibration of the Palace, the analysis of the first year of monitoring data is presented. This analysis shows that, differently from what observed in other literature works on historic masonry towers, the natural frequencies of the Palace show a marked and sometimes non-linear decreasing trend with increasing ambient temperature, that can be effectively removed through linear statistical filtering provided that dynamic regression models, using past values of predictors, are used. On the other side, the evolution of the amplitudes of two major cracks monitored within the building also shows a marked

Creating a Citation Report

Total Publications
149 Analyze



h-index
18

Average citations per item
13.83

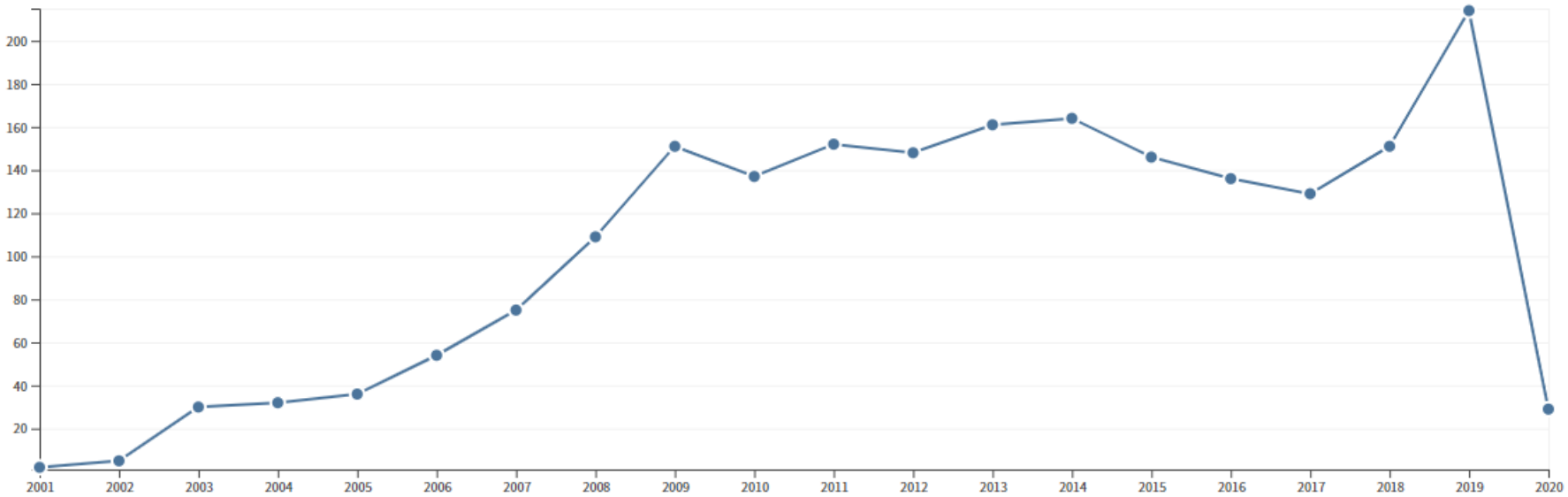
Sum of Times Cited
2,061

Without self citations
1,866

Citing articles
1,586 Analyze

Without self citations
1,509 Analyze

Sum of Times Cited per Year



1 of 15

nalyze Results

reate Citation Report

es Cited: 413
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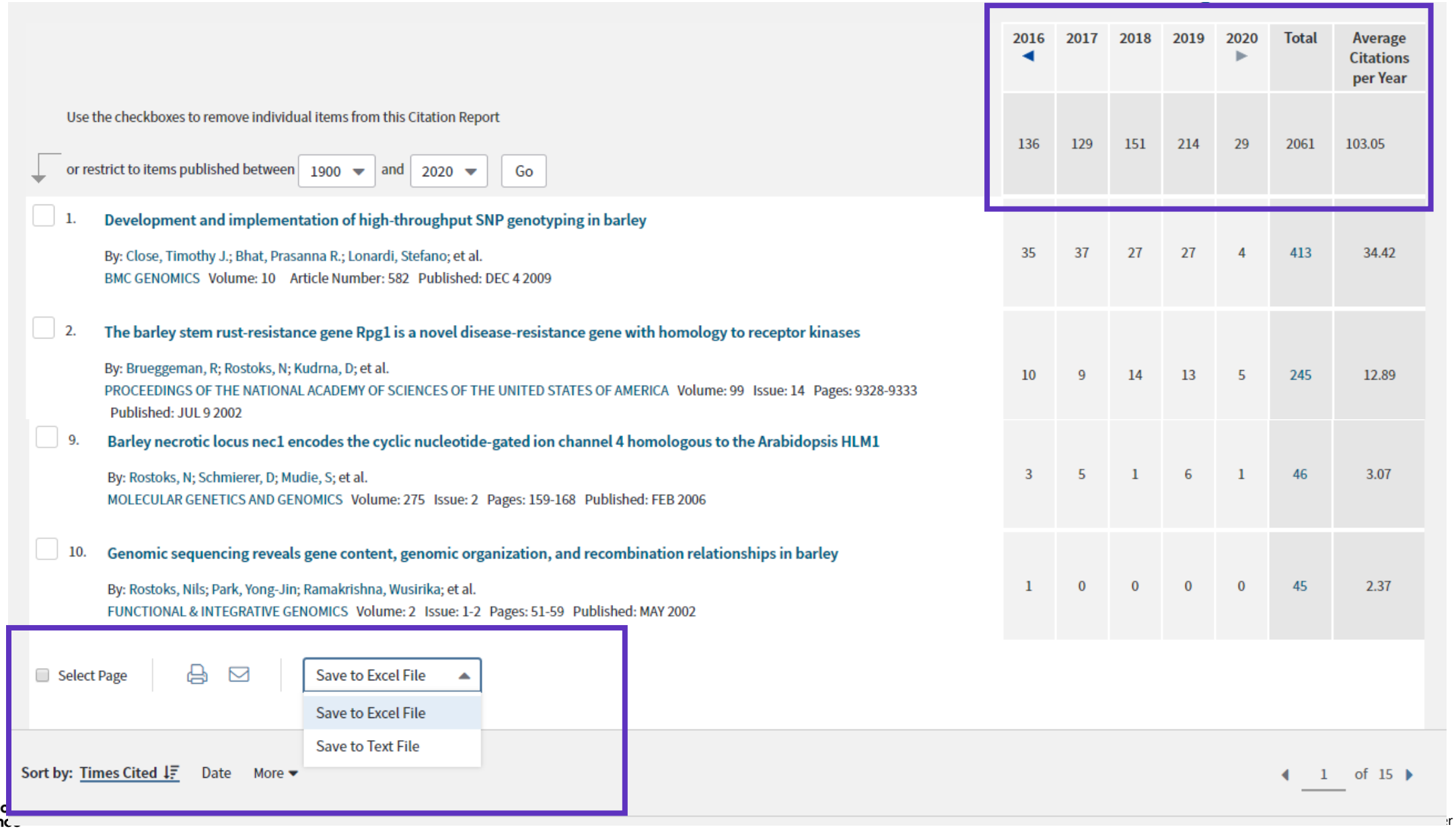
es Cited: 245
n Web of Science Core
ction)

ge Count

Citation Report

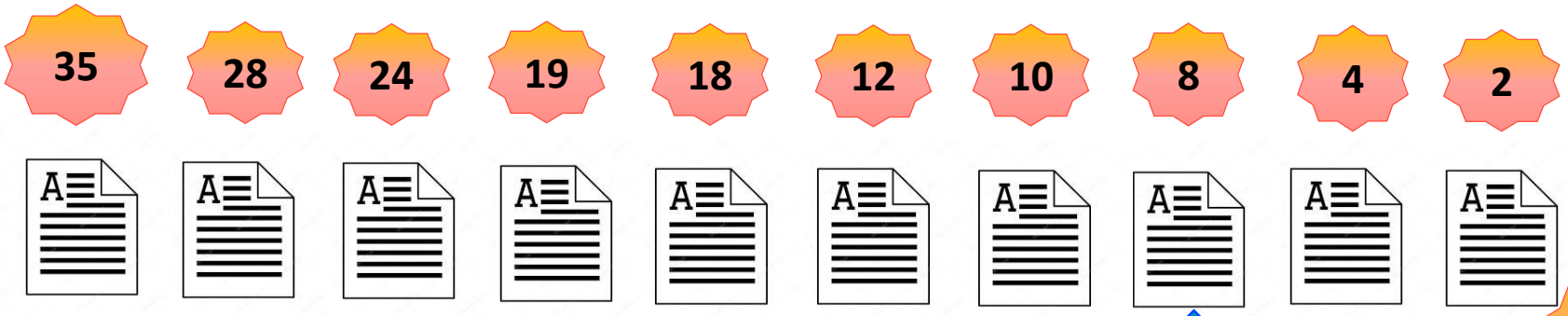


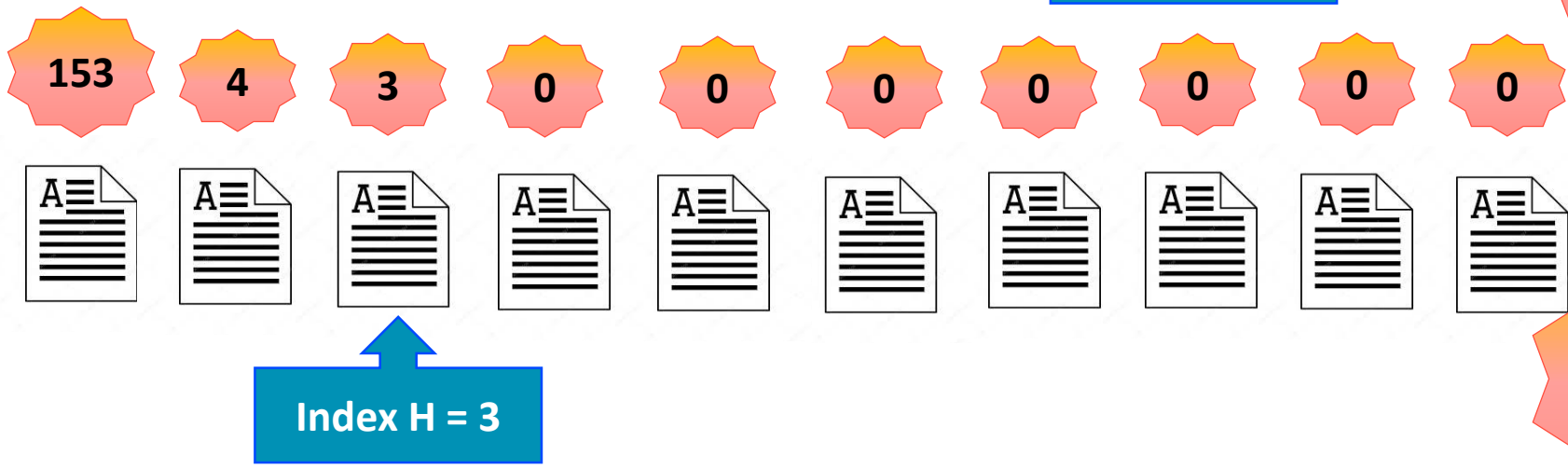
2016 ◀	2017	2018	2019	2020 ▶	Total	Average Citations per Year
136	129	151	214	29	2061	103.05
35	37	27	27	4	413	34.42
10	9	14	13	5	245	12.89
3	5	1	6	1	46	3.07
1	0	0	0	0	45	2.37

H-Index

Prof Adams

Prof Johnes

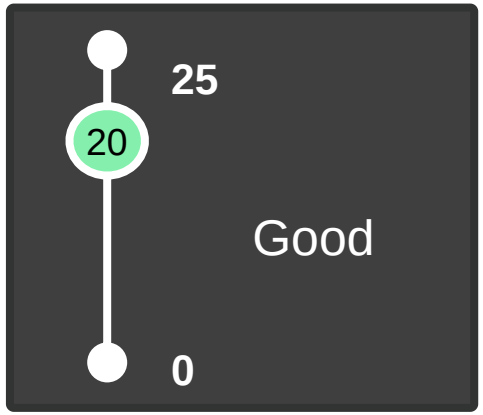


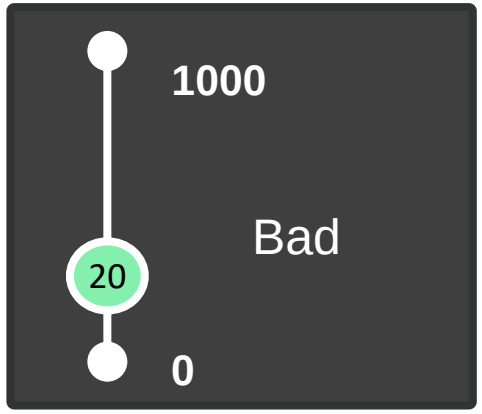


Need of normalization

Context is everything

good or bad?

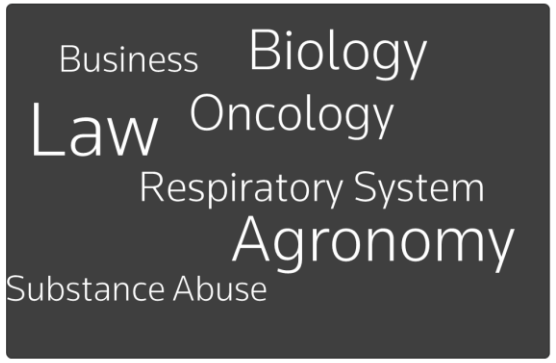




INDICATORS MUST BE PUT INTO CONTEXT TO BE USEFUL: CATEGORY, JOURNAL, PEERS, GLOBAL

- **NORMALIZED INDICATORS — for relative performance comparisons**
- **PERCENTILES — where does it fall in the range of values?**
- **BENCHMARKS — how does it compare with a group or globally?**

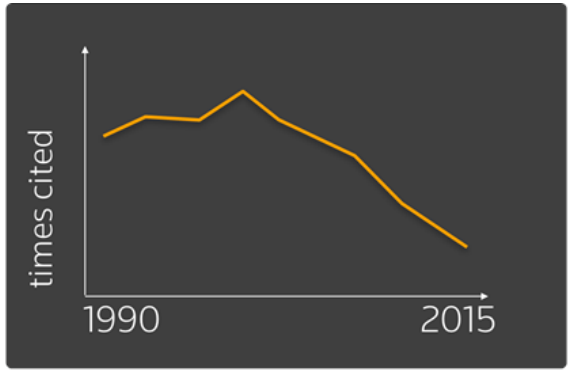
Normalization puts data into context



CATEGORY

citation patterns differ by subject category

e.g. nanotechnology vs law



TIME

citations accumulate over time and at different rates depending on article age and category

e.g. new articles may accumulate citations quickly, older ones more slowly or not at all

DOCUMENT TYPE

citations differ by document type within a journal

e.g. reviews are generally more heavily cited than articles, and editorials, book reviews etc. may go uncited

Normalization at Paper Level

Category

How many citations should I expect from my papers?
How do my papers perform in my field?
How do other researchers perform in my field?

Average of citations received by an article published in 2012 in the Management category.

Indicator of performance in the Management category for this Article published in 2006:
If>1, performs higher than average
If<1, performs lower than average.

Article Title	Authors	Source	Research Area	Volume	Issue	Pages	Publication Date	Times Cited	Journal Expected Citations	Category Expected Citations	Journal Normalized Citation Impact	Category Normalized Citation Impact	Percentile in Subject Area	Journal Impact Factor
Toward a Theory of Coordinating: Creating Coordinating Mechanisms in Practice	Jarzabkowski, Paula A.; Le, Jane K.; Feldman, Martha S.	ORGANIZATION SCIENCE	MANAGEMENT	23	4	907-927	2012	43	21.88	7.34	1.97	5.86	1.97	3.36

Times Cited/Category Expected Citations = 43/7.34 = 5.86

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Explore Citations in Journal Citation Reports

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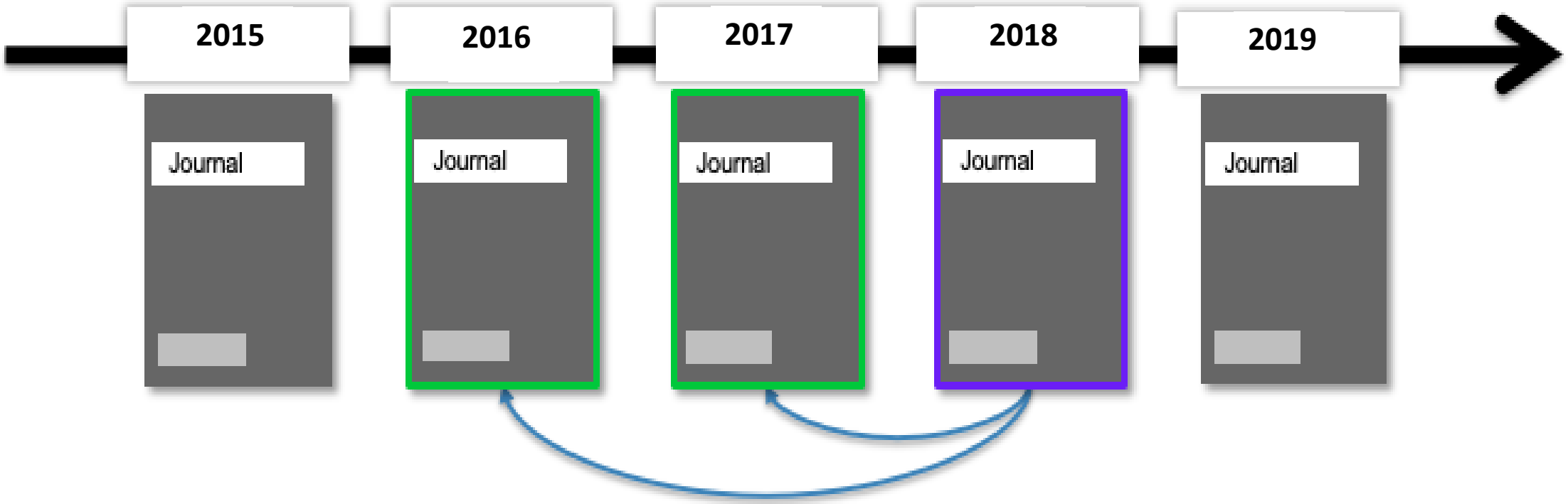
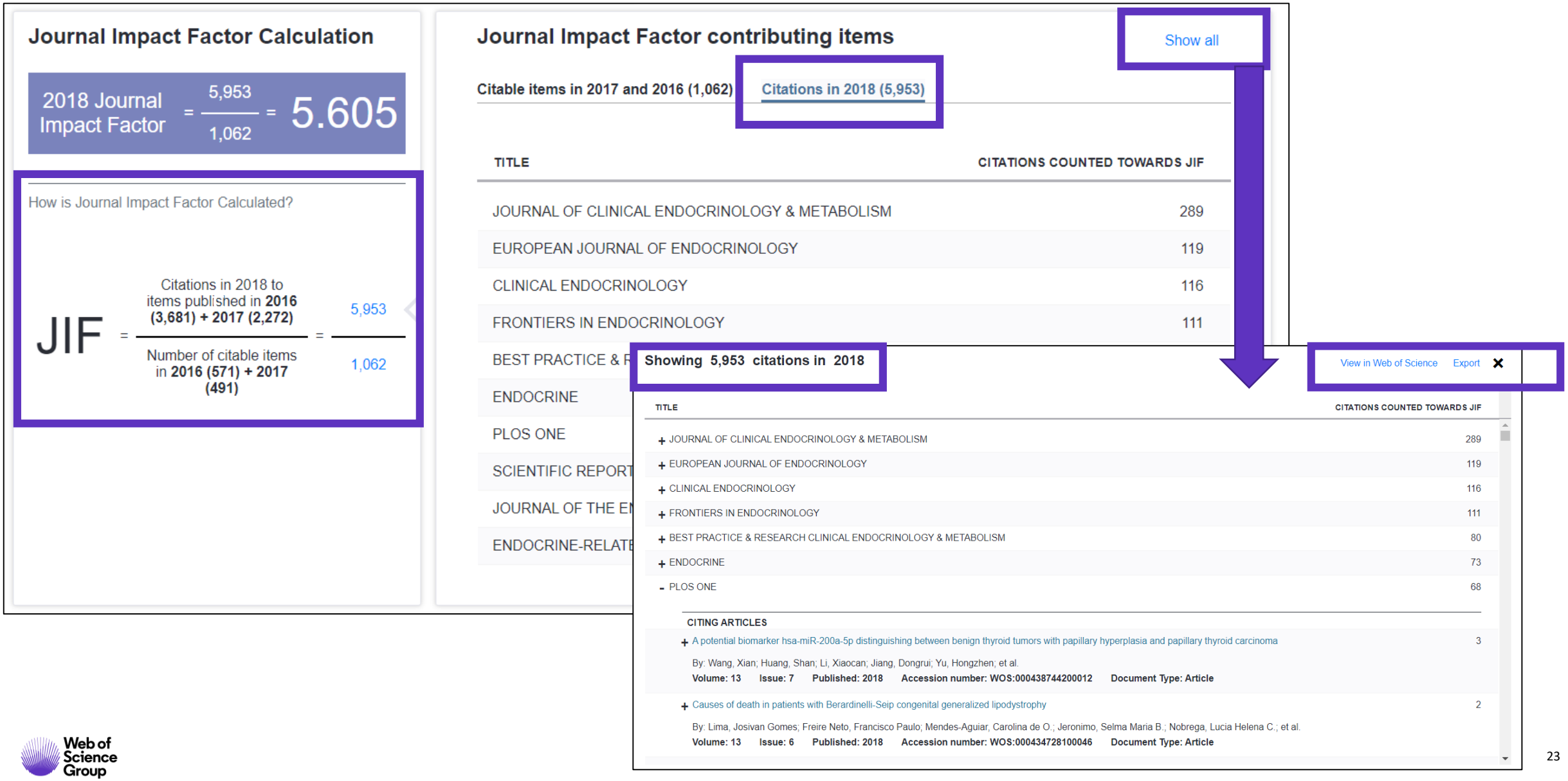
Refresher: how is the Journal Impact Factor calculated?

2018 Impact Factor = Ratio of citations from 2018 to papers published in 2016 and 2017



Explore the citations of a journal



Journal Intelligence

JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM

ISSN: 0021-972X
eISSN: 1945-7197
ENDOCRINE SOC
2055 L ST NW, SUITE 600, WASHINGTON, DC 20036
USA

Go to Journal Table of Contents Go to Ulrich's Printable Version

TITLES
ISO: J. Clin. Endocrinol. Metab.
JCR Abbrev: J CLIN ENDOCR METAB

LANGUAGES
English

CATEGORIES
ENDOCRINOLOGY & METABOLISM - SCIE

PUBLICATION FREQUENCY
12 issues/year

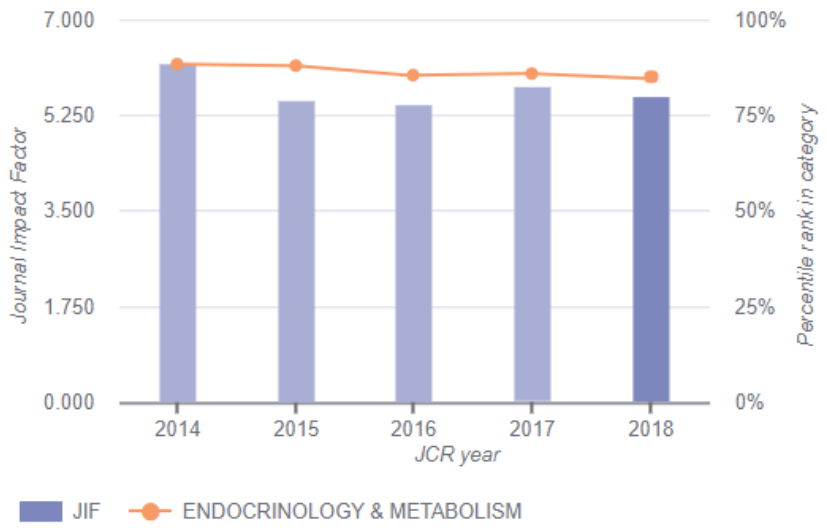
Current Year 2017 All Years

The data in the two graphs below and in the Journal Impact Factor calculation panels represent citation activity in 2018 to items published in the journal in the prior two years. They detail the components of the Journal Impact Factor. Use the "All Years" tab to access key metrics and additional data for the current year and all prior years for this journal.

Journal Impact Factor Trend 2018

Printable Version

5.605
2018 Journal Impact Factor



Context is everything

- Journal Impact Factor for a specific year
- Percentile/Ranking for a specific year and within a Category

JCR Impact Factor

JCR Year	ENDOCRINOLOGY & METABOLISM		
	Rank	Quartile	JIF Percentile
2018	22/145	Q1	85.172
2017	20/142	Q1	86.268
2016	20/138	Q1	85.870
2015	16/133	Q1	88.346
2014	15/128	Q1	88.672
2013	13/124	Q1	89.919
2012	13/122	Q1	89.754
2011	15/122	Q1	88.115
2010	13/116	Q1	89.224
2009	10/105	Q1	90.952
2008	11/93	Q1	88.710

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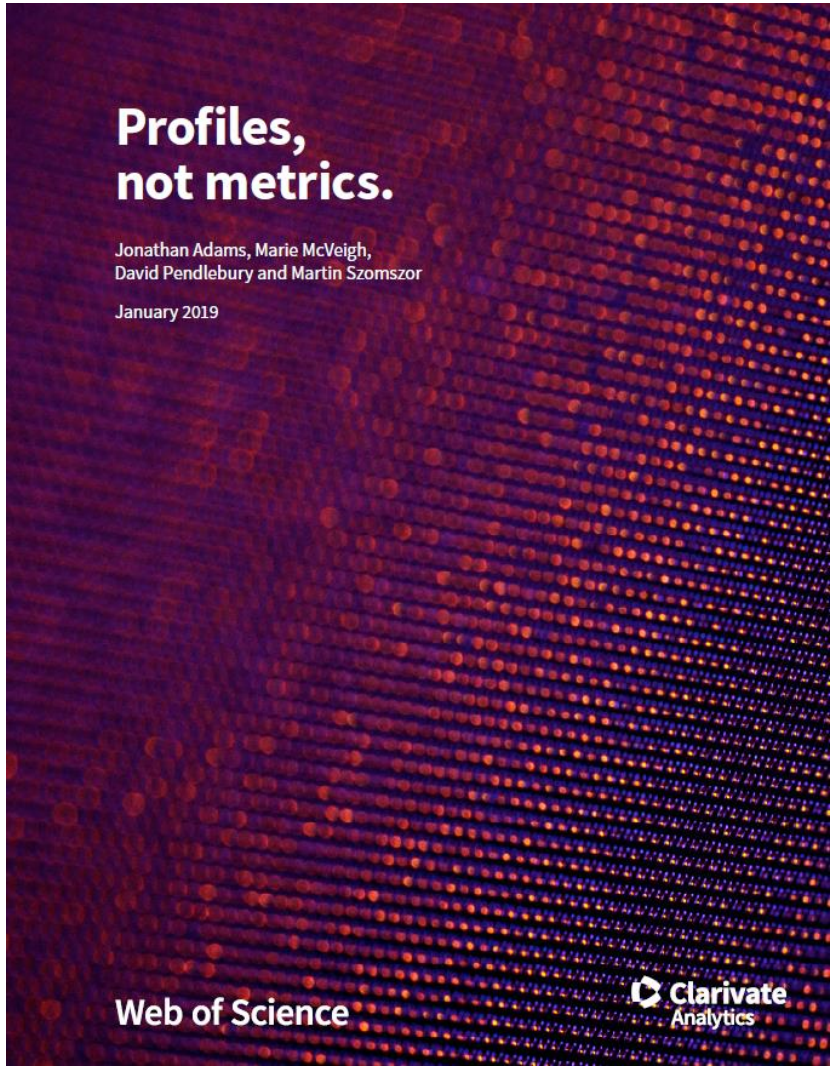
Going beyond single metric for assessment

ISI January 2019 Report



Beyond single-point metrics

In this report, we draw attention to the information that is lost when data about researchers and their institutions are squeezed into a simplified metric or league table.

We look at four familiar types of analysis that can obscure real research performance when misused and we describe four alternative visualizations that unpack the richer information that lies beneath each headline indicator and that support sound, responsible research management.

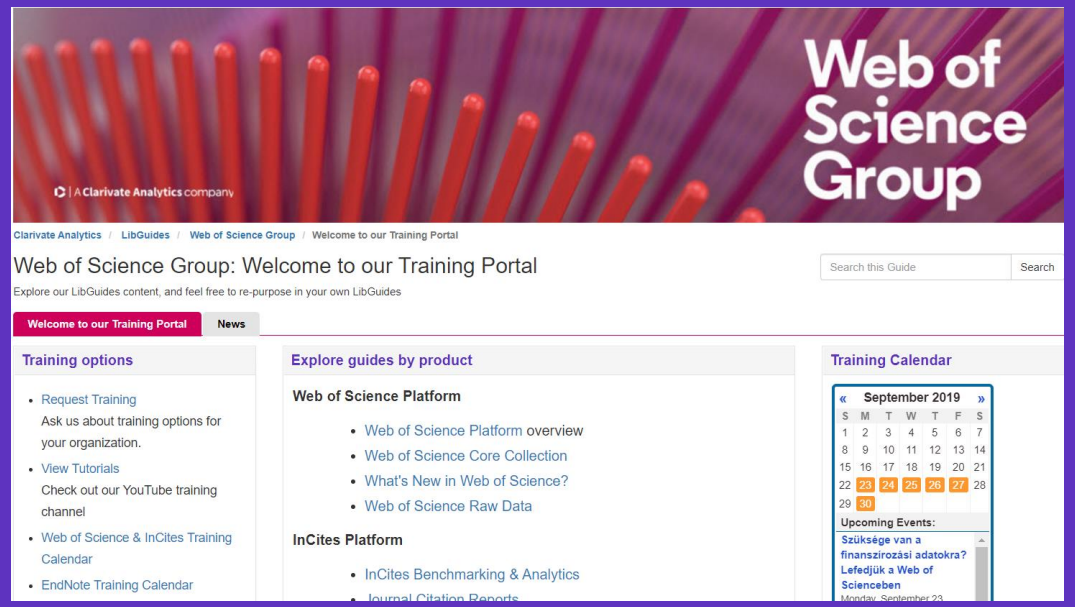
https://clarivate.com/webofsciencegroup/solutions/isi-reports/

Want more resources, tips and guidance to help you research smarter?

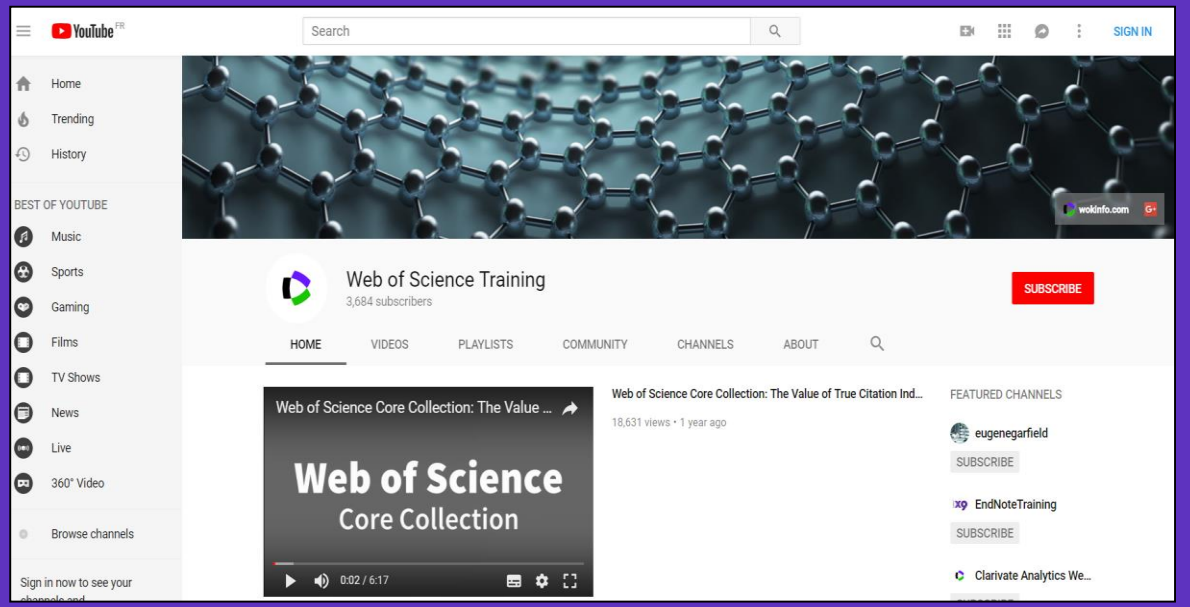
Sign up for our newsletter at **webofsciencegroup.com**

More information

Clarivate Libguides
http://clarivate.libguides.com/home



Web of Science You Tube Channel
https://www.youtube.com/user/WoSTraining



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Thank you!

Marcin Kapczynski

Solutions Specialists and Customer Education, Europe

Web of Science Group | **Clarivate Analytics**

Mobile +48 693 060 193 | marcin.kapczynski@clarivate.com