Web of Science Group

A Clarivate Analytics company

Web of Science: New content and integrated tools to support the entire Research Ecosystem

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3 June 2019

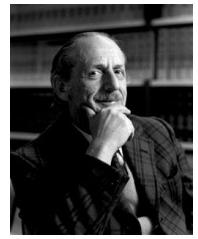
Agenda

- Web of Science Group- Innovators and Thought Leadership
  - Web of Science Group Intro
  - Publishing systems
  - The Foundation – Our Citation Content
- ISI – the re-establishment of the Institute for Scientific Information
- New Developments
  - Open Access visibility
  - New Tools for the Research Ecosystem
    - Kopernio- – one-click access to full-text from any source, pointing first to institutional subscriptions, then OA, repositories included
    - Publons- getting credit for peer-reviews; also how Publons is contributing to improved author profiles in Web of Science
- Analytics – My Organization

Innovation is in our DNA

ISI® → DERWENT THOMSON SCIENTIFIC → THOMSON REUTERS → Clarivate Analytics

Clarivate Analytics honors Dr. Eugene Garfield's legacy to Information Sciences with a Memorial Scholarship



PHILADELPHIA, March 16, 2017 /PRNewswire/ -- To honor the legacy of Dr. Eugene Garfield, the visionary founder of the Web of Science and a pioneer of Information Science, Clarivate Analytics today announced the creation of the "**Eugene Garfield Information Sciences Pioneer Award**." This award will be given annually to at least one promising information scientist, selected by a board of prominent scientometricians.

Clarivate Analytics board member Annette Thomas to lead Scientific and Academic Research business

Science publishing innovator excited for future of Web of Science

PHILADELPHIA, Aug. 8, 2017 /PRNewswire/ -- Clarivate Analytics, the global leader in providing trusted insights and analytics to enable the research ecosystem to accelerate discovery, announced today that Annette Thomas, previously appointed to the Clarivate board, will join the company in September as Chief Executive Officer of its Scientific and Academic Research division, well-known for its industry-leading Web of Science platform. Thomas will lead the global team from its London office.

Back to the Future: Institute for Scientific Information Re-established Within Clarivate Analytics

PHILADELPHIA, Feb. 7, 2018 /PRNewswire/ -- Clarivate Analytics, the global leader in providing trusted insights and analytics to accelerate the pace of innovation, today announced it will re-establish the prestigious Institute for Scientific Information (ISI) to its Scientific and Academic Research Group. This new incarnation of the institute will be focused on the development of existing and new bibliometric and analytical approaches, fostering collaborations with partners and customers across the academic community.

ISI® **2018** relaunch

Web of Science Group

Web of Science Group

Neutral, objective, high-quality – and innovative

The Web of Science Group has been pioneering the world of research for more than 50 years and powering innovation across the research ecosystem with best-in-class data, discovery, analytics, and tools.

Leadership Team

Annette Thomas
CEO

Samantha Burridge
Director of Strategy and Transformation

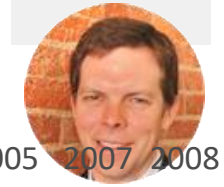
Jan Reichelt
Managing Director
Web of Science

Ben Kaube
Managing Director
Kopernio

Emmanuel Thiveaud
Managing Director
InCites

Nandita Quaderi
Editor in Chief, Scientific and Academic Research

Jonathan Adams
Director, ISI



Keith Collier
Managing Director
Publisher Services

Andrew Preston
Managing Director
Publons

Caroline Birkle
Managing Director
Converis

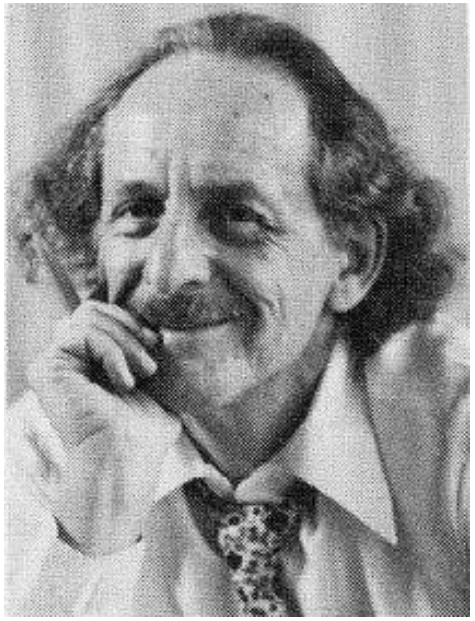
1960 1965 1970 1975 1980 1985 1990 1995 2000 2005 2007 2008 2009 2013 2014

Journal Citation Reports

This group represents **innovation, focus, and expertise within the scholarly communication ecosystem** and **understands the needs of researchers and institutions**.

Web of Science Group

Our Legacy extends 65 years - EUGENE GARFIELD'S "ASSOCIATION OF IDEAS INDEX" -1955



Science, Vol:122, No:3159, p.108-111, July 15, 1955

Citation Indexes for Science:

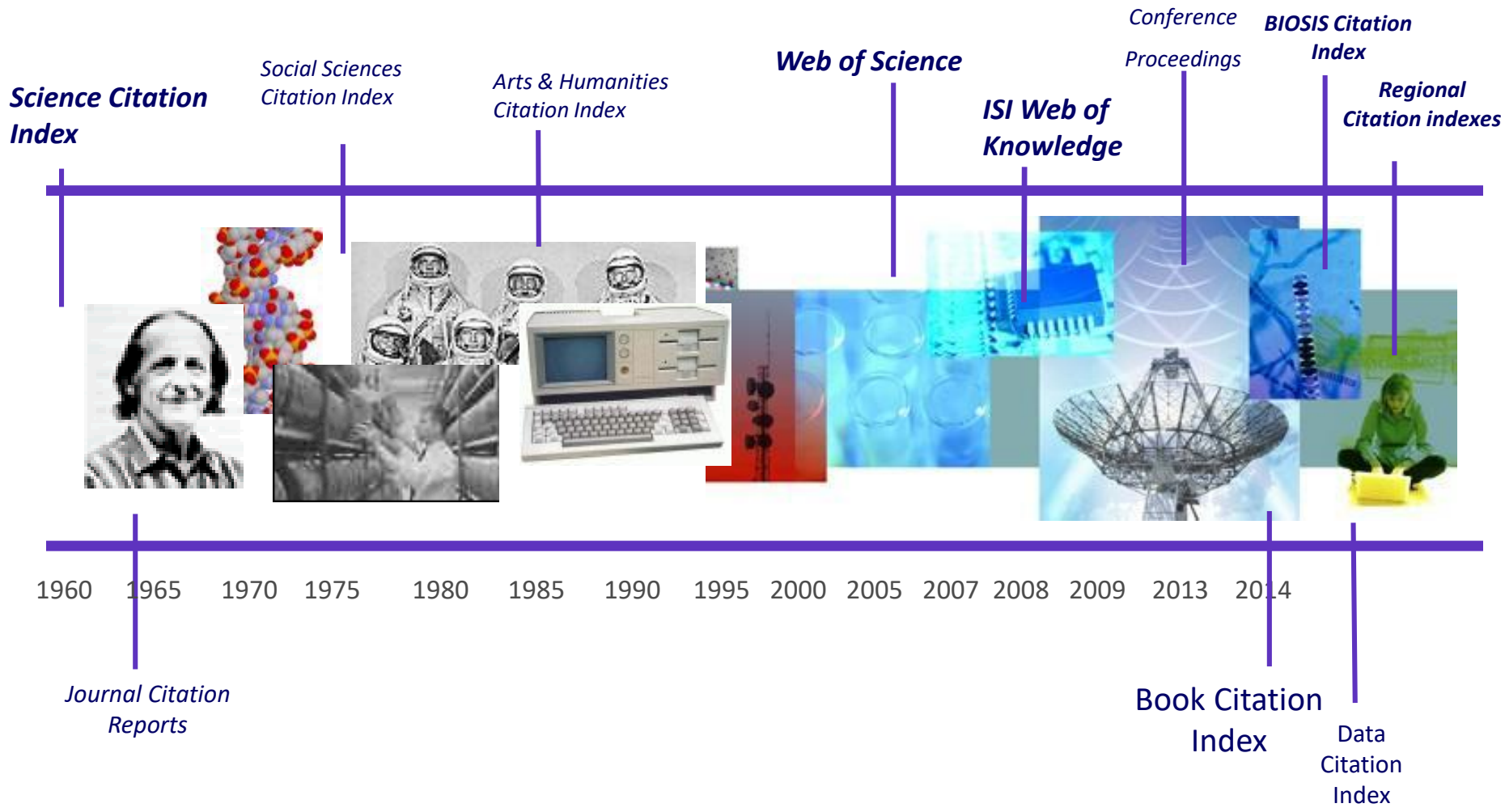
A New Dimension in Documentation through Association of Ideas

Eugene Garfield, Ph.D.

"The uncritical citation of disputed data by a writer, whether it be deliberate or not, is a serious matter. Of course, knowingly propagandizing unsubstantiated claims is particularly abhorrent, but just as many naive students may be swayed by unfounded assertions presented by a writer who is unaware of the criticisms. Buried in scholarly journals, critical notes are increasingly likely to be overlooked with the passage of time, while the studies to which they pertain, having been reported more widely, are apt to be rediscovered." (1)

Web of Science is the "web" presentation of l citation indexes developed decades ago by Dr. Eugene Garfield, founder of ISI (now Clarivate Analytics) and an icon in the realm of scholarly information

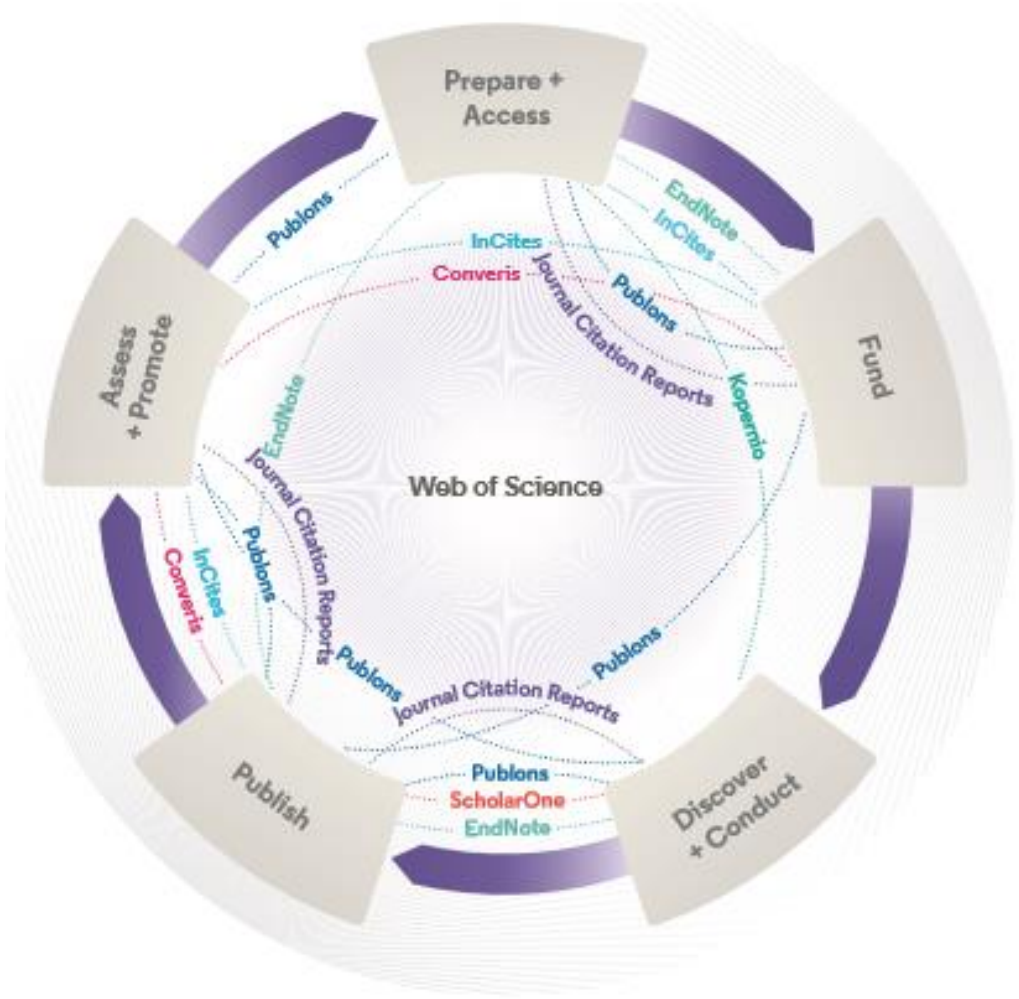
OVER 60 YEARS OF EXPERIENCE IN DEVELOPING INFORMATION RESOURCES



Web of Science Group

The research flow

Supported by the Web of Science Group



Web of Science
The world's largest and highest quality publisher-neutral citation index.

InCites
Analyze institutional productivity and benchmark your output against peers worldwide.

ScholarOne
Simplified submission workflows and peer review for scholarly publishers and societies.

Essential Science Indicators
Reveals emerging science trends as well as influential individuals, institutions, papers, journals, and countries across 22 categories of research.

Journal Citation Reports
The world's most influential and trusted resource for evaluating peer-reviewed publications.

EndNote
A smarter way to streamline references and write collaboratively.

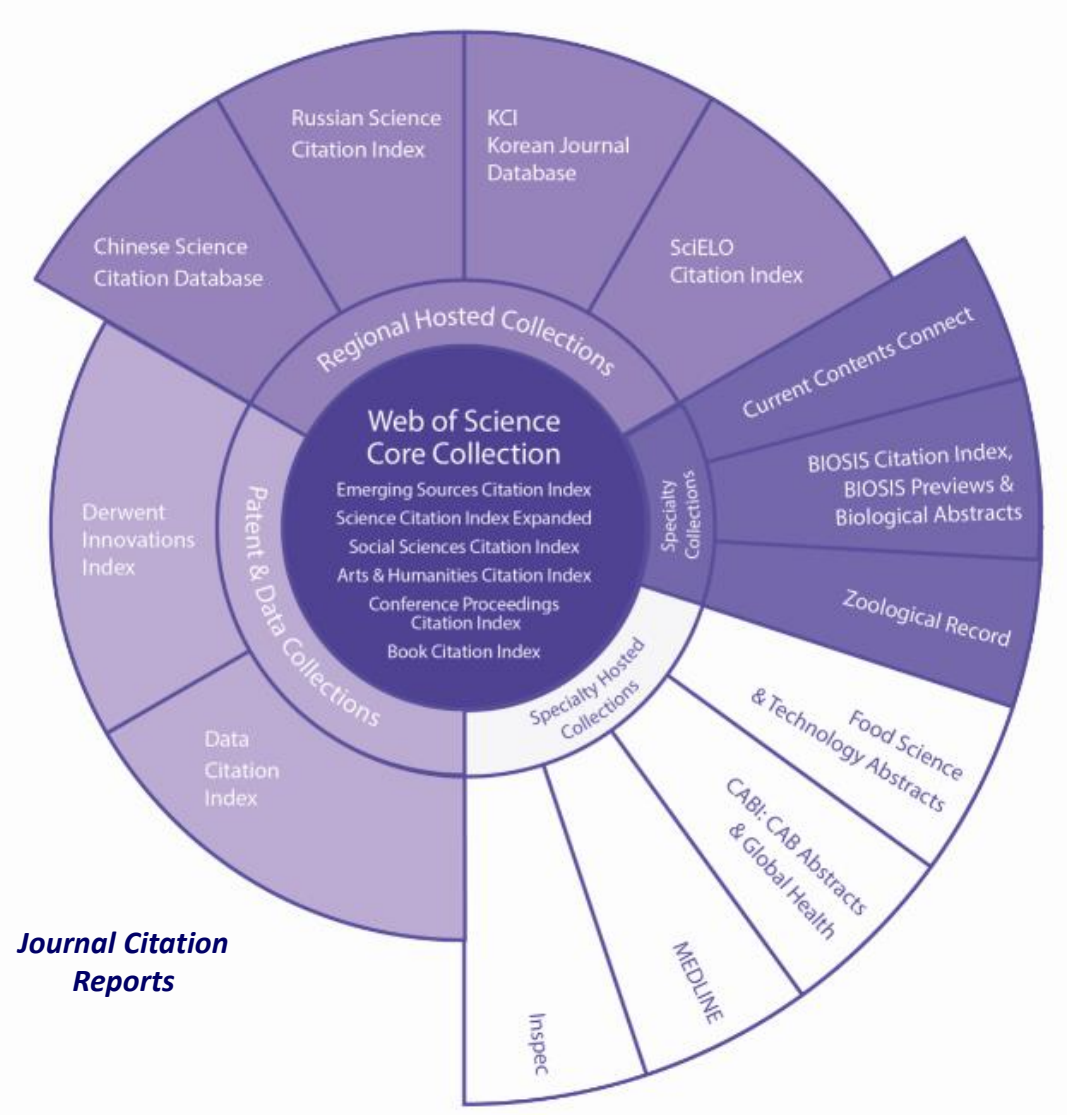
Kopernio
Fast, one-click access to millions of high-quality research papers.

Converis
One workflow to let institutions collect, manage, and report on all research activity, working seamlessly with an institutions existing systems.

Web of Science Author Connect
Reach leading researchers in the sciences, social sciences, and arts and humanities.

Publons
Supporting researchers through documenting their peer-review and journal editing contributions, providing guidance and best practice for the peer-review process, as well as increasing the overall visibility of their research and its impact.

The Foundation - Powering the Web of Science Group



254
Subject categories

1.6 Billion
Cited references

34,200+
Total journals across the full platform

11.2 Million
Records with funding data

21,300+
Total journals in select *Core Collection*

80 Million
Patents for over 40 million inventions

155 Million
Record – patents, data sets, articles, and proceedings

Backfiles to 1900
With cover-to-cover indexing

WoS Core Collection Dataset

Objective, Complete and Optimal Coverage

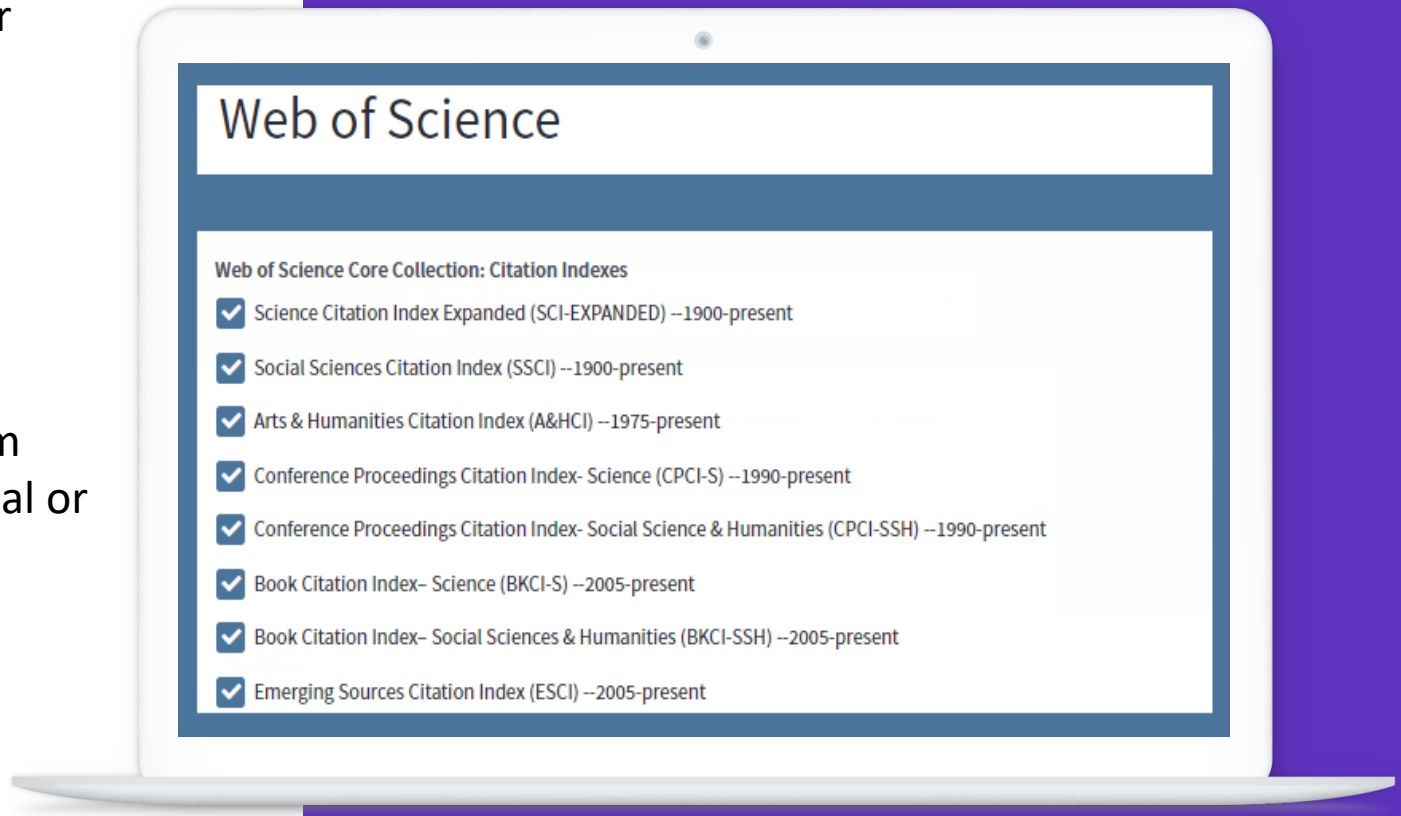
21,000+ journals indexed cover-to-cover

- ✓ Multidisciplinary
- ✓ International/Regional
- ✓ Influential
- ✓ High Quality

Careful and objective journal selection performed by a dedicated editorial team that is independent from any commercial or publishing activities

Over 74M records,

100% with cited references (1.6 Billion) provide industry leading metadata to power your discovery and analytics



The Web of Science Core Collection

The basic principles of our selection process remain the same: objectivity, selectivity and collection dynamics. Our goal is to select the highest quality content, no matter what the model of publishing

Journals are selected by experts with:

150 years of experience

0 affiliations with any journals or publishers

- Our editorial decisions are conducted by our expert in-house editors who have no affiliations to publishing houses or research institutes thus removing any potential bias or conflict of interest.

- Each editor is focused on specific subject categories enabling them to gain a deep, nuanced knowledge of the journals in their field that cannot be replicated by competitors who rely on algorithmic approaches and/or delegating aspects of editorial decision-making to the research community.

The Difference – Comprehensive, Consistent Indexing - guaranteed targeted analysis

20,300+ journals:
- Identify journals publishing top performing research
- Understand journals contributions
- Analyse OA impact at Gold/Bronze/Green

254 Categories

Web of Science Categories: Immunology; Neurosciences

JOURNAL OF NEUROINFLAMMATION
Volume: 9
Article Number: 230
DOI: 10.1186/1742-2094-9-230
Published: OCT 3 2012
Document Type: Article
View Journal Impact

Neuronal toll-like receptor 4 signaling induces brain endothelial activation and neutrophil transmigration *in vitro*

Sophie Leow-Dyke[1†], Charlotte Allen[1†], Adam Denes[3], Olov Nilsson[1], Samaneh Maysami[1], Andrew G Bowie[2], Nancy J Rothwell[1] and Emmanuel Pinteaux[1*]

Neuronal toll-like receptor 4 signaling induces brain endothelial activation and neutrophil transmigration in vitro

By: Leow-Dyke, S (Leow-Dyke, Sophie)[1]; Allen, C (Allen, Charlotte)[1]; Denes, A (D
Samaneh)[1]; Bowie, AG (Bowie, Andrew G.)[2]; Rothwell, NJ (Rothwell, Nancy J.)[

100% author names indexed:
- Researchers working in the field
- Identify experts

Author	ResearcherID	ORCID Number
Maysami, Samaneh		http://orcid.org/0000-0002-6506-3972
Pinteaux, Emmanuel		http://orcid.org/0000-0002-9986-4401
drew		http://orcid.org/0000-00

ORCID integration

All affiliations indexed:
- Institution and country level analysis
- Identify top performing/ centres of excellence
- Benchmark with peers
- Monitor international collaborations

Addresses:
[1] Univ Manchester, Fac Life Sci, Manchester M13 9PT, Lancs, England
Organization-Enhanced Name(s)
University of Manchester
[2] Univ Dublin Trinity Coll, Trinity Biomed Sci Inst, Immunol Res Ctr, Sch Biochem & Immunol, Dublin 2, Ireland
Organization-Enhanced Name(s)
Trinity College Dublin
[3] Inst Expt Med, Lab Mol Neuroendocrinol, H-1450 Budapest, Hungary
Organization-Enhanced Name(s)
Hungarian Academy of Sciences

Funding

Funding Agency	Grant Number
Medical Research Council (UK)	
Swedish Research Council	
Medical Research Council	

Funders captured since 2008:
- 12 Million records with funding info
- Identify which are your major funding sources
- Analyse funding sources in a research area

Close funding text
We are grateful for funding provided by the Medical Research Council (UK) and the Swedish Research Council. We would like to thank Ms Catherine Smedley for technical support.

Citation Navigation – Trace the evolution of discovery

Citation Network

In Web of Science Core Collection

3,688 Times Cited

Highly Cited Paper

Create Citation Alert

All Times Cited Counts

4,044 in All Databases

See more counts

38 Cited References

View Related Records

Use in Web of Science

Web of Science Usage Count

214 Last 180 Days

2,415 Since 2013

Learn more

Most recently cited by:

Hussain, Wajid; Mahmood, Tariq; Hussain, Jawad; et al.
CRISPR/Cas system: A game changing genome editing technology, to treat human genetic diseases.
GENE (2019)

Buchman, A.; Akbari, O. S.
Site-specific transgenesis of the Drosophila melanogaster Y-chromosome using CRISPR/Cas9.
INSECT MOLECULAR BIOLOGY (2019)

View All

RESEARCH ARTICLE

A Programmable Dual-RNA–Guided DNA Endonuclease in Adaptive Bacterial Immunity

Martin Jinek,[1,2]* Krzysztof Chylinski,[3,4]* Ines Fonfara,[4] Michael Hauer,[2]† Jennifer A. Doudna,[1,2,5,6]‡ Emmanuelle Charpentier[4]‡

Clustered regularly interspaced short palindromic repeats (CRISPR)/CRISPR-associated (Cas) systems provide bacteria and archaea with adaptive immunity against viruses and plasmids by using CRISPR RNAs (crRNAs) to guide the silencing of invading nucleic acids. We show here that in a subset of these systems, the mature crRNA that is base-paired to trans-activating crRNA (tracrRNA) forms a two-RNA structure that directs the CRISPR-associated protein Cas9 to introduce double-stranded (ds) breaks in target DNA. At sites complementary to the crRNA-guide sequence, the Cas9 HNH nuclease domain cleaves the complementary strand, whereas the Cas9 RuvC-like domain cleaves the noncomplementary strand. The dual-tracrRNA:crRNA, when engineered as a single RNA chimera, also directs sequence-specific Cas9 dsDNA cleavage. Our study reveals a family of endonucleases that use dual-RNAs for site-specific DNA cleavage and highlights the potential to exploit the system for RNA-programmable genome editing.

Bacteria and archaea have evolved RNA-mediated adaptive defense systems called clustered regularly interspaced short palindromic repeats (CRISPR)/CRISPR-associated (Cas) that protect organisms from invading vi- cleavage yields the short crRNAs that can pair with complementary protospacer sequences of invading viral or plasmid targets (*4*–*11*). Target recognition by crRNAs directs the silencing of the foreign sequences by means of Cas pro-

developing a system to ge targeting and **Cas9 is two RNAs.** C systems, has in both crRN DNA interfer involved in c participation been investig might be cap used an over protein derive *pyogenes* (fig and methods) mid DNA or a protospacer ture crRNA, mature crRN Cas9-catalyz and fig. S3A which can pai and is essenti tem, triggered 1A and fig. S both magnes sequence con capable of tra a noncognate not support

Impactstory and Kopernio provides users with access to free full text via a single click

Free Published Article From Repository

Full Text from Publisher

Look Up Full Text

PDF Found

- Your Kopernio Locker
- Publisher Version
- OA alternative
- Google Scholar

Web of Science

Clarivate Analytics

Search | Search Results | Tools | Searches and alerts | Search History | Marked List

Citing Articles: 3,688 (from Web of Science Core Collection)

Sort by: Date | Times Cited | Usage Count | More

1 of 369

For: A Programmable Dual-RNA-Guided DNA Endonuclease in Adaptive Bacterial Immunity ...More

Times Cited Counts
4,044 in All Databases
3,688 in Web of Science Core Collection
3,192 in BIOSIS Citation Index
399 in Chinese Science Citation Database
3 data sets in Data Citation Index
0 publication in Data Citation Index
13 in Russian Science Citation Index
11 in SciELO Citation Index
View Additional Times Cited Counts

Refine Results

Search within results for...

Filter results by:
Highly Cited in Field (365)
Hot Papers in Field (13)
Open Access (2,233)
Associated Data (107)

Select Page | 5K | Save to EndNote online | Add to Marked List

Analyze Results | Create Citation Report

1. Multiplex Genome Engineering Using CRISPR/Cas Systems
By: Cong, Le; Ran, F. Ann; Cox, David; et al.
SCIENCE Volume: 339 Issue: 6121 Pages: 819-823 Published: FEB 15 2013
Full Text from Publisher | Free Accepted Article From Repository | View Abstract
Times Cited: 4,768 (from Web of Science Core Collection) | Highly Cited Paper | Usage Count

2. RNA-Guided Human Genome Engineering via Cas9
By: Mali, Prashant; Yang, Luhan; Esvelt, Kevin M.; et al.
SCIENCE Volume: 339 Issue: 6121 Pages: 823-826 Published: FEB 15 2013
Full Text from Publisher | Free Accepted Article From Repository | View Abstract
Times Cited: 3,450 (from Web of Science Core Collection) | Highly Cited Paper | Usage Count

3. Genome engineering using the CRISPR-Cas9 system
By: Ran, F. Ann; Hsu, Patrick D.; Wright, Jason; et al.
NATURE PROTOCOLS Volume: 8 Issue: 11 Pages: 2281-2308 Published: NOV 2013
Free Full Text from Publisher | View Abstract
Times Cited: 2,224 (from Web of Science Core Collection) | Highly Cited Paper | Usage Count

Times Cited: 1,662 (from Web of Science Core Collection) | Highly Cited Paper

Integration of this publication in a 1.6 Billion Cited References citation network

Cited References: 38

Showing 30 of 38 | View All in Cited References page (from Web of Science Core Collection)

1. CRISPR provides acquired resistance against viruses in prokaryotes — Times Cited: 1,964
Associated Data
By: Barrangou, Rodolphe; Fremaux, Christophe; Deveau, Helene; et al.
SCIENCE Volume: 315 Issue: 5819 Pages: 1709-1712 Published: MAR 23 2007

2. CRISPR-Cas Systems in Bacteria and Archaea: Versatile Small RNAs for Adaptive Defense and Regulation — Times Cited: 382
By: Bhaya, Devaki; Davison, Michelle; Barrangou, Rodolphe
ANNUAL REVIEW OF GENETICS, VOL 45 Book Series: Annual Review of Genetics Volume: 45 Pages: 273-297 Published: 2011

3. Small CRISPR RNAs guide antiviral defense in prokaryotes — Times Cited: 955
By: Brouns, Stan J. J.; Jore, Matthijs M.; Lundgren, Magnus; et al.
SCIENCE Volume: 321 Issue: 5891 Pages: 960-964 Published: AUG 15 2008

4. Progress and prospects: Zinc-finger nucleases as gene therapy agents — Times Cited: 138
By: Carroll, D.
GENE THERAPY Volume: 15 Issue: 22 Pages: 1463-1468 Published: NOV 2008

5. Cas6 is an endoribonuclease that generates guide RNAs for invader defense in prokaryotes — Times Cited: 292
Associated Data
By: Carte, Jason; Wang, Ruiying; Li, Hong; et al.
GENES & DEVELOPMENT Volume: 22 Issue: 24 Pages: 3489-3496 Published: DEC 15 2008

6. Targeting DNA Double-Strand Breaks with TAL Effector Nucleases — Times Cited: 784
By: Christian, Michelle; Cermak, Tomas; Doyle, Erin L.; et al.
GENETICS Volume: 186 Issue: 2 Pages: 757-U476 Published: OCT 2010

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Ongoing unification – Author Affiliation/Funding Acknowledgements

Consolidated metadata is necessary for accurate and reliable analysis

FROM ADDRESSES

12,518+ Unified Organizations

900K+ Manual unification rules are used

Organization Name:	Add	UNIVERSITY OF MANCHESTER
Other Names:		UNIVERSITY OF MANCHESTER; UNIV MANCHESTER; UNIVERSITY OF MANCHESTER
Address:		OXFORD ROAD ,MANCHESTER, ENGLAND, UNITED KINGDOM ,M13 9PL

Name Variants:	Add	1 001 MANCHESTER INTERDISCIPLINARY BIOCTR
	Add	1 124 STOPFORD BLDG
	Add	1 302 STOPFORD BLDG
	Add	1 800 STOPFORD BLDG
	Add	131 PRINCESS ST
	Add	3 239 STOPFORD BLDG
	Add	3 614 STOPFORD BLDG
	Add	ACAD DIV CLIN PSYCHOL
	Add	ACAD HLTH SCI CTR

Add	MANCHESTER COMP CTR
Add	MANCHESTER CTR ANGLO SAXON STUDIES
Add	MANCHESTER CTR CIVIL CONSTRUCT ENGN
Add	MANCHESTER CTR CIVIL CONTRUCT ENGN
Add	MANCHESTER CTR COMPUTAT MATH
Add	MANCHESTER CTR ELECT ENERGY
Add	MANCHESTER CTR INTEGRAT SYST BIOL
Add	MANCHESTER CTR MESOSCI NANOTECHNOL
Add	MANCHESTER CTR NONLINEAR DYNAM
Add	MANCHESTER DENT EDUC CTR
Add	MANCHESTER DENT HLTH UNIT

FROM AUTHOR AKNOWLEDGEMENTS

1,000+ Unified Funders in InCites

12.3 M records with funding acknowledgements in WoS Core Collection (funding text, MEDLINE, ResearchFish)

Funding

Funding Agency	Grant Number
European Research Council (ERC)	306733
ERC	277757
EPSRC	EP/M009580/1 EP/K016288/1
ARCHER via the U.K.'s HPC Materials Chemistry Consortium	EP/L000202
Electron Microscopy Center at Empa	
Scientific Center for Optical and Electron Microscopy (ScopeM) at ETH Zurich	
Engineering and Physical Sciences Research Council	EP/M009580/1 EP/K016288/1 EP/L000202/1

MEDLINE

researchfish®

Name	Rank	▼ Web of Science Documents	Times Cited	% Docs Cited	Category Normalized Citation Impact
Engineering & Physical Sciences Research Council (EPSRC)	19	87,154	1,625,799	84.52%	1.52
Wellcome Trust	40	53,480	1,763,744	91.19%	2.13
Medical Research Council UK	43	51,185	1,589,371	90.46%	2.02

Web of Science Group

Web of Science is on a transformative journey to better support research in innovative ways.

The best high-quality entry point into the world of research…

Improved discovery of and access to high-quality research

Responds to researcher needs by streamlining user experiences and simplifying search, as well as combining **the best access technologies** for OA and subscription content

Researcher-centricity as key focus

Puts additional focus on the researcher with a new author search and researcher record as well as with new workflow tools to solve researcher problems that matter

Innovative and leading OA analytics capabilities

Helps the research community to evaluate and access high-quality OA content with expanded and unique Web of Science OA identification

Modernized integration capabilities

Provides continuously better and more consistent experiences for developers and development partners with modern APIs

Recent discovery and workflow enhancements

daily

The Core Collection is now updated daily, Monday-Friday.

Create Alert

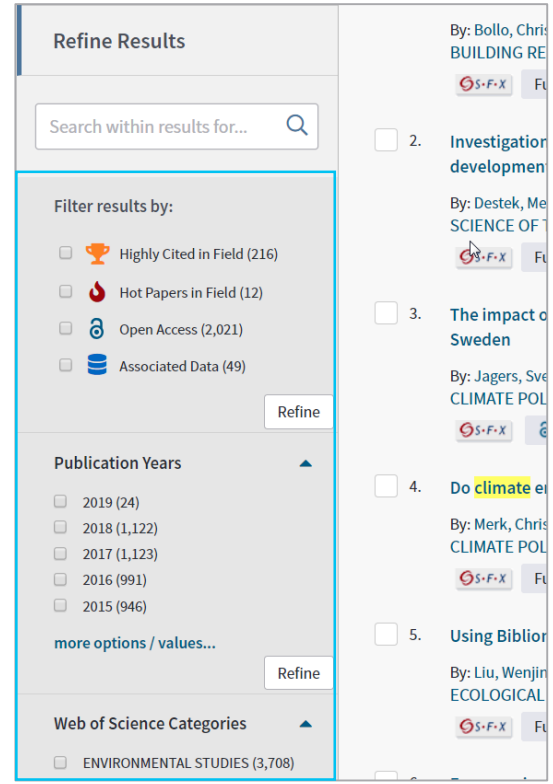
Create daily search alerts in the Core Collection.

Marked List 50,000

Marked List capacity expanded from 5K to 50K.

Early Access: JAN 2018

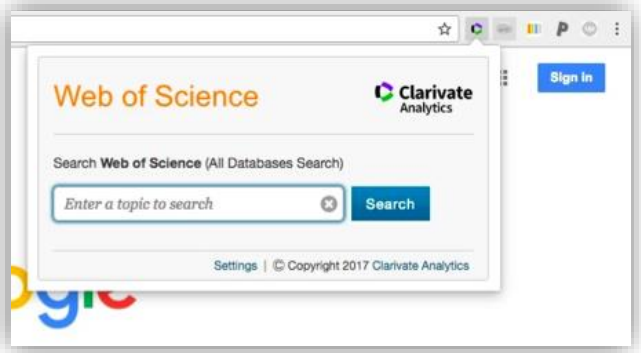
Find articles released ahead of print in your Core Collection search results.



Refine panel options are reordered and highlight features unique to Web of Science.

5K

Record export limit raised from 500 to 5K for registered users.



Institutional co-branding helps your users understand the library's value.

The Google Chrome browser plug-in allows you to search the Web of Science without interrupting your workflow to open it.
Download: http://bit.ly/2vCEINg

Web of Science Group

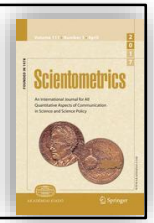
Emerging Sources Citation Index

Emerging Sources Citation Index (ESCI) benefits the academic research ecosystem

- Launched in 2015, ESCI covers more than 7,400 journals in total.
- It captures scientific, social science, and humanities trends and developments beyond the high-impact literature.
- The journals selected and reviewed by our editorial team have been identified as important to key opinion leaders, funders, and evaluators worldwide.

"ESCI has a positive effect on research assessment and it accelerates communication in the scientific community."

Early Insight on the ESCI: an overlay map-based bibliometric study
Scientometrics, 18 March 2017



"Indexing in the ESCI will improve the visibility of a journal, provides a mark of quality, and is good for authors. We have already seen examples of institutions and funders suggesting publication in an ESCI listed journal, similar to what already takes places with other Web of Science databases."

James Hardcastle, Senior Manager, Product Analytics, Taylor & Francis
13 February 2017

Taylor & Francis

Some facts about Emerging Sources Citation Index

7 680+ journals

2 827 500+ records

68 345 800+ cited references

2 745 Gold Open Access journals (DOAJ)

- Enables expanded **research assessment & benchmarking**
- Comprehensive search and discovery of **new areas of research**
- Better understanding of the evolution of **emerging fields & global trends**
- Identify new **collaboration opportunities** in emerging research areas

Emerging Sources Citation Index

7680
JOURNALS

37%
SOCIAL SCIENCES

16%
ARTS & HUMANITIES

2.8M
RECORDS BETWEEN 2005-2019

2 745
OPEN ACCESS JOURNALS

88%
ENGLISH LANGUAGE

- Cover-to-cover indexing
- All article Meta-data
- Address unification
- ORCID/RID integration
- Funding data
- Cited References

The list of ESCI journals

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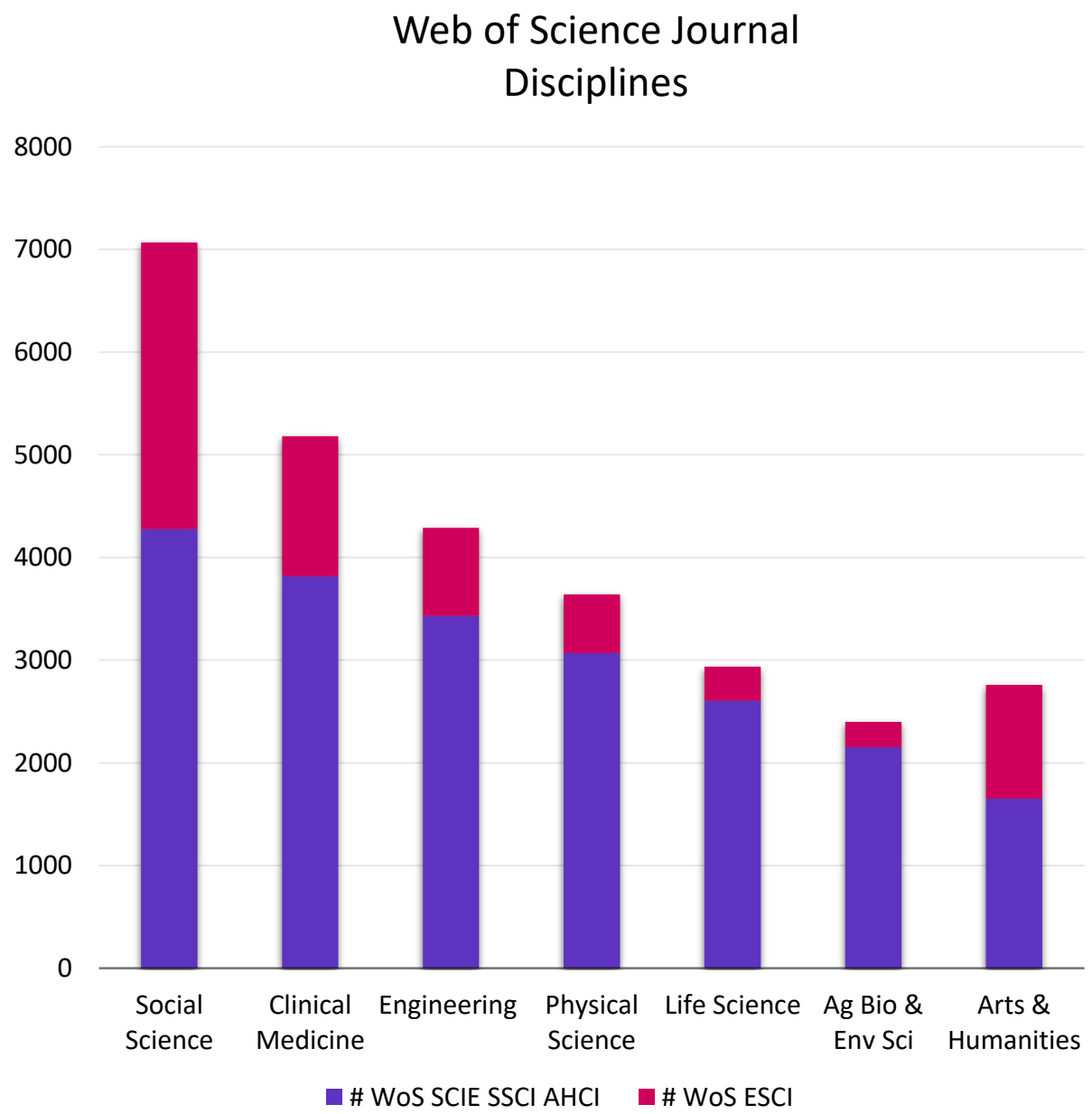
Web of Science Core Collection Journal Editions

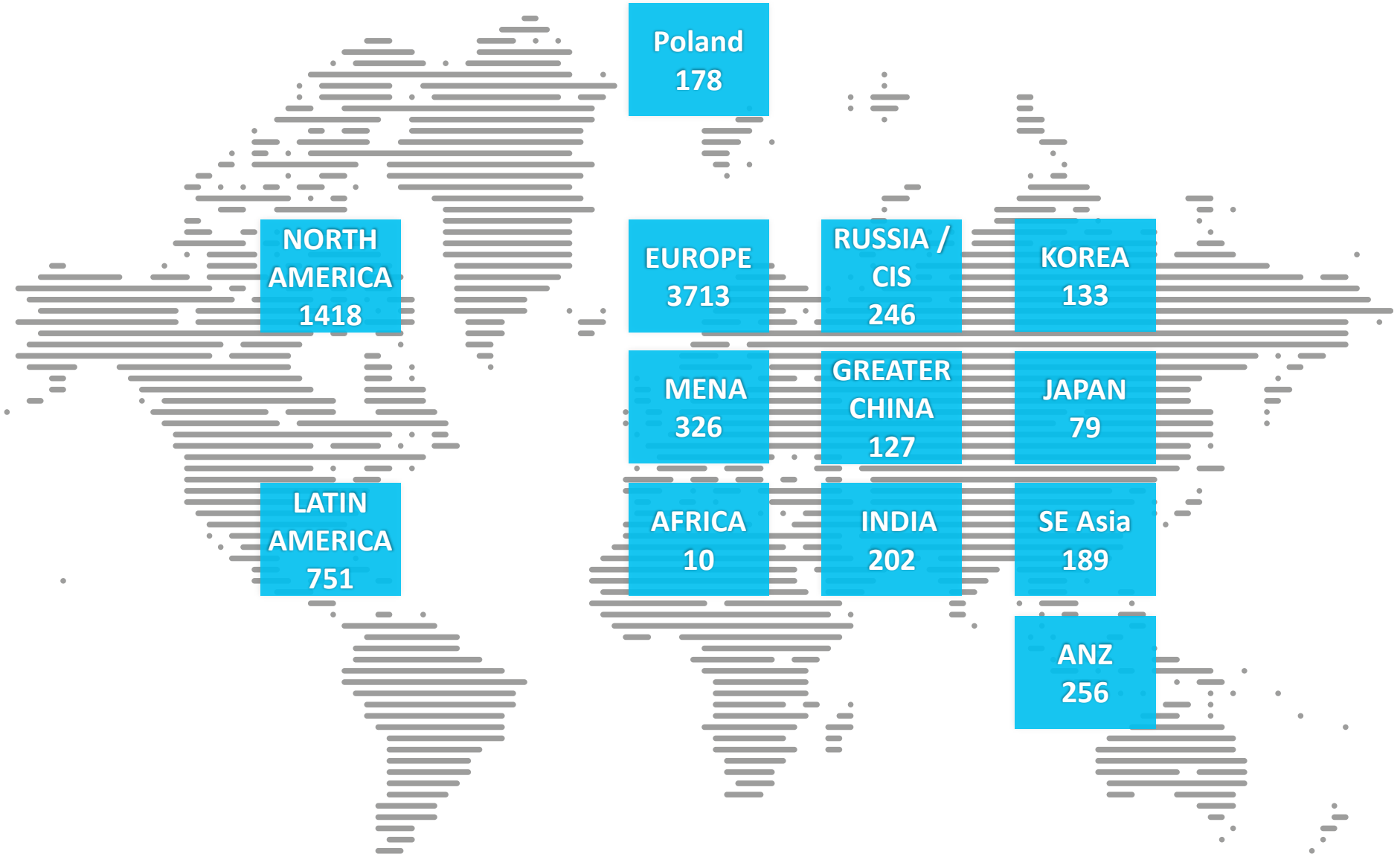
Discipline Coverage in Emerging Sources Citation Index

- Social Science with most journals added with the Emerging Sources Citation Index - 2,791 titles added bringing the total to 8,000
- Arts & Humanities – adding 1,106 titles bringing the total humanities coverage to 2,750+ titles



Web of Science Group

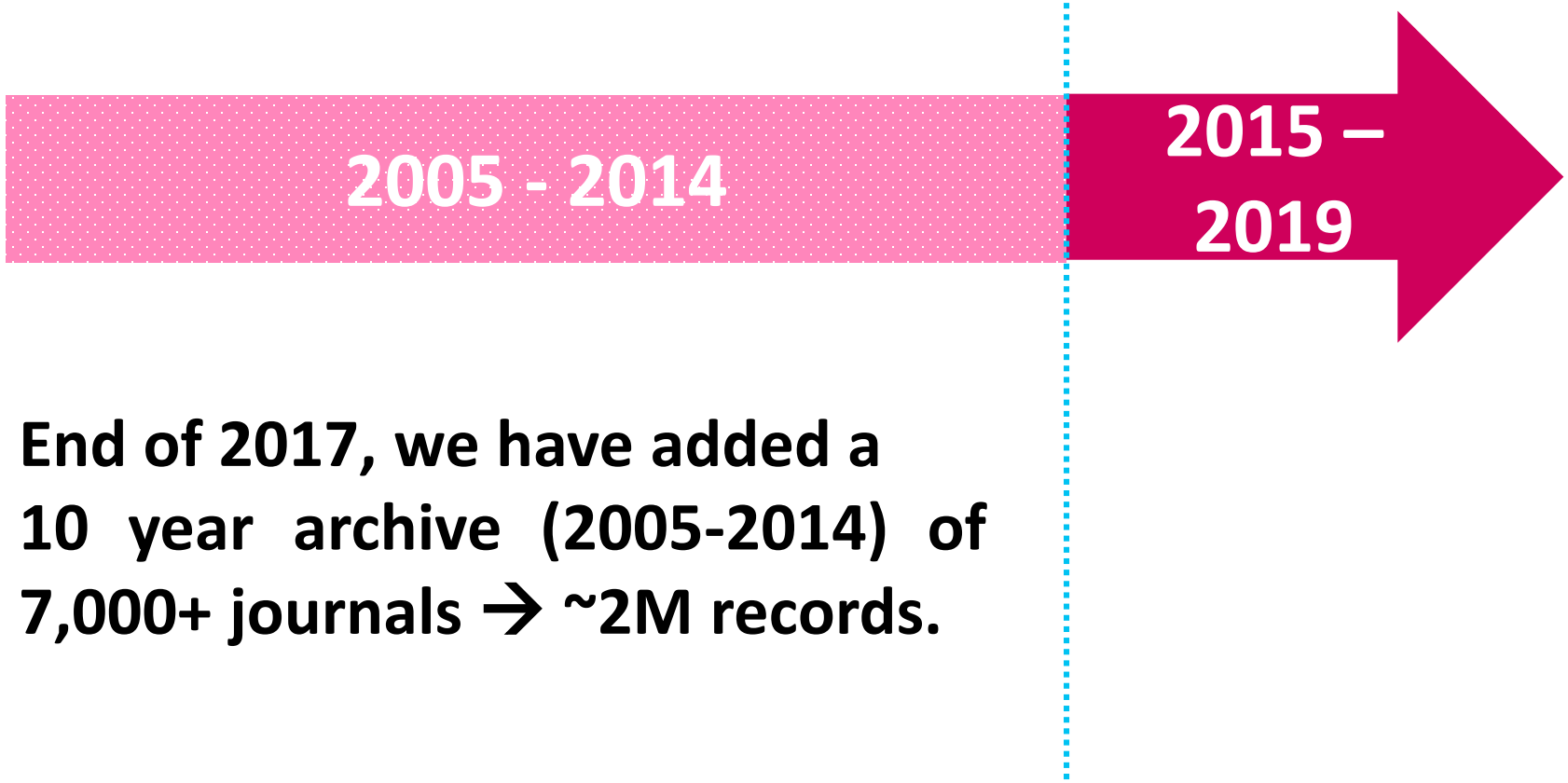
Emerging Sources Citation Index Journals



Web of Science Group

Emerging Sources Citation Index

10 year archive

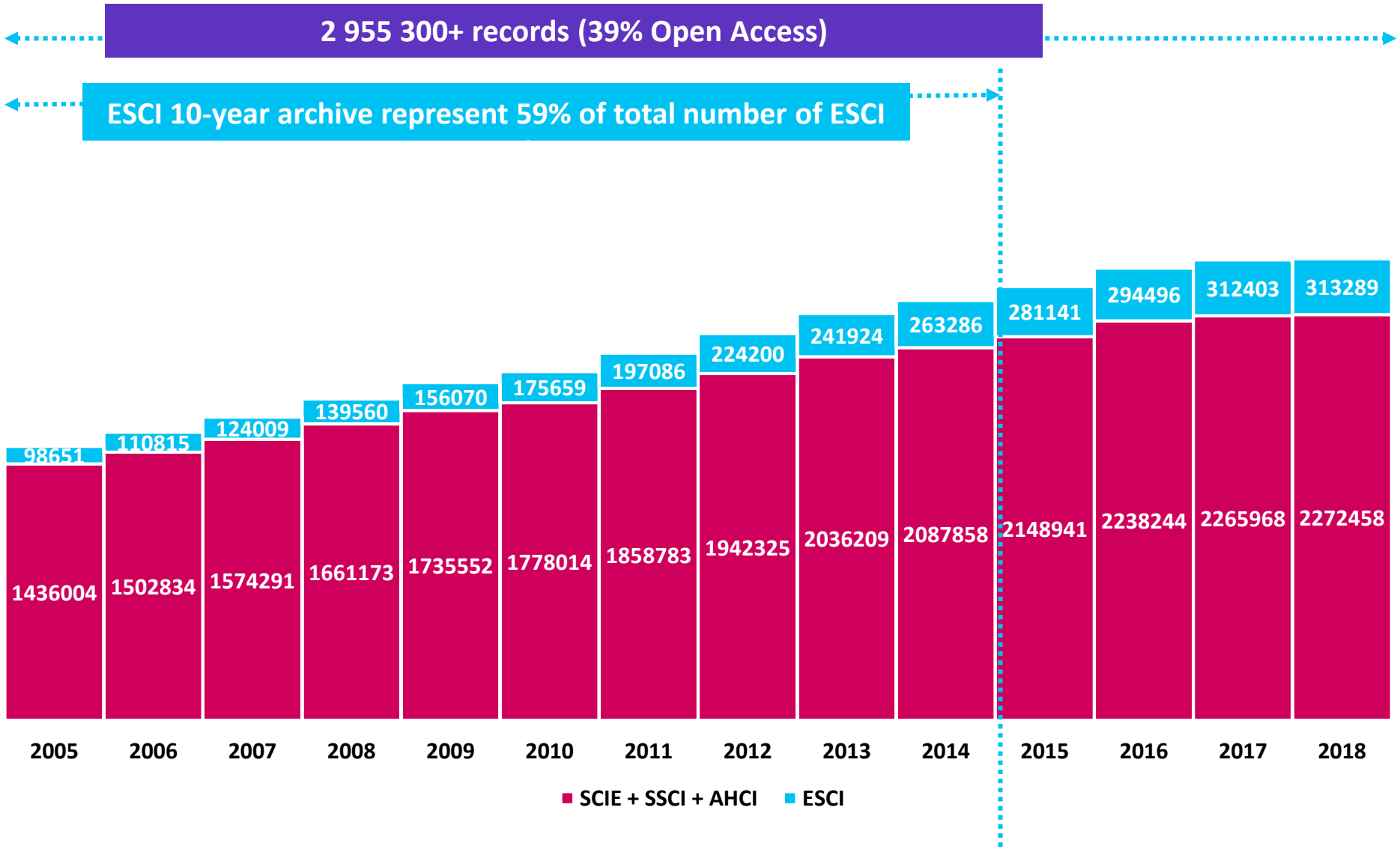


End of 2017, we have added a 10 year archive (2005-2014) of 7,000+ journals → ~2M records.

Data as of March 2019, from Web of Science Core Collection.

Documents indexed in ESCI | worldwide

10 years worth of content from 7,680+ new, peer reviewed journals



Web of Science Group

The “ESCI Effect”

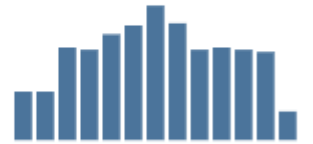
Human Affairs-Postdisciplinary Humanities & Social Sciences Quarterly

HUMAN AFFAIRS

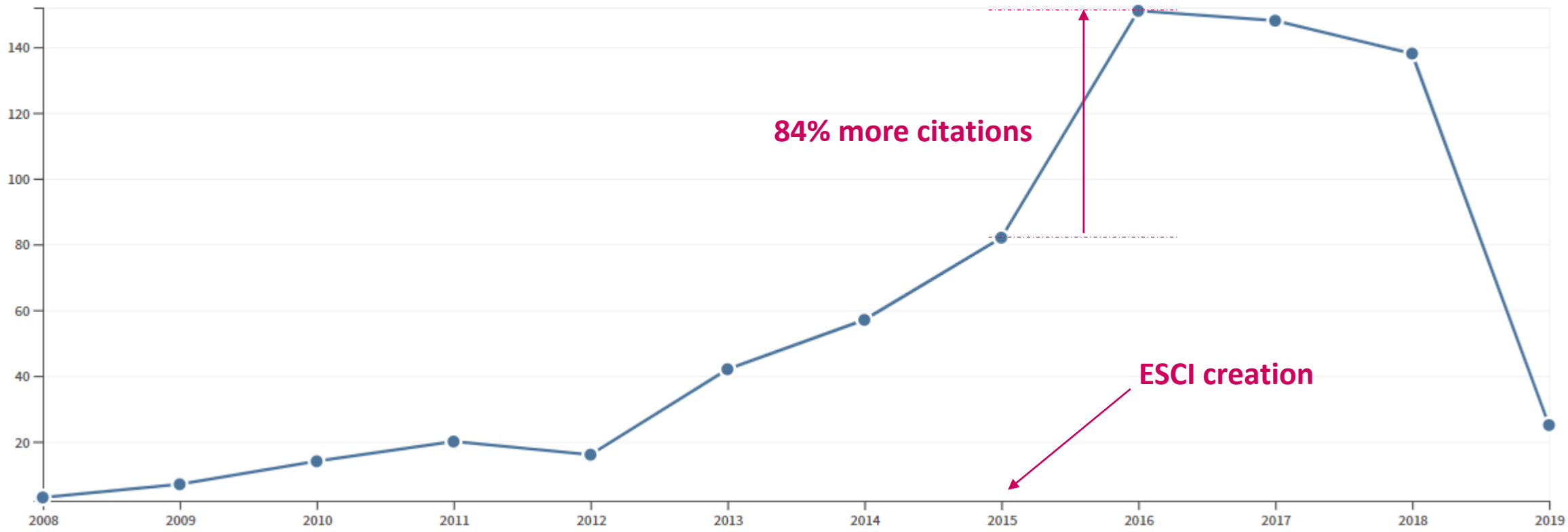
Postdisciplinary Humanities & Social Sciences Quarterly

Total Publications

492 Analyze



2000 2019



Web of Science Group

Institute for Scientific Information (ISI)

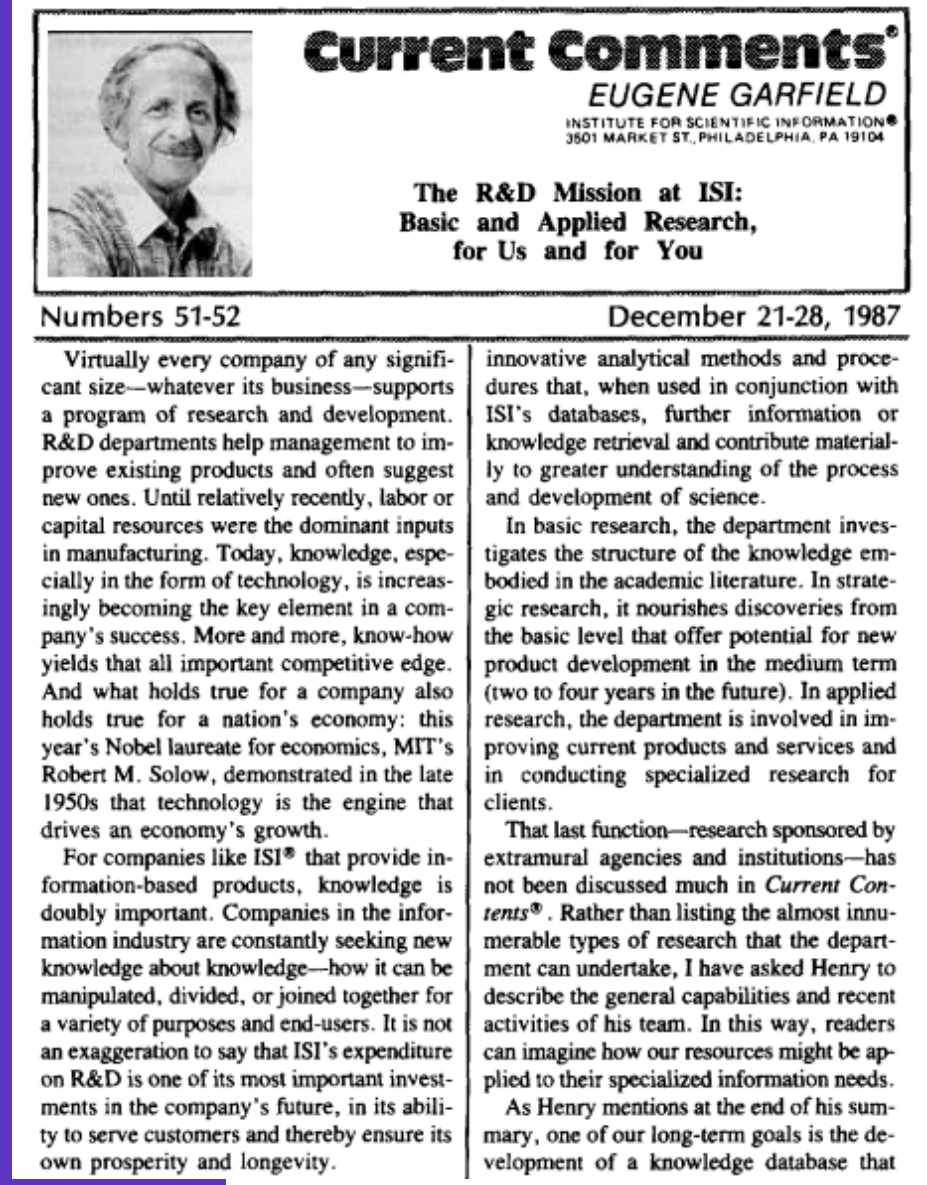
The re-establishment of ISI within Web of Science Group

ISI Research & Development in the 1970s & 1980s

"It is not an exaggeration to say that ISI's expenditure on R&D is one of its most important investments in the company's future, in its ability to serve customers and thereby ensure its own prosperity and longevity"
- **Eugene Garfield (1987)**

- **Basic research:** "investigating the structure of the knowledge embodied in the academic literature"
- **Strategic research:** "move discoveries from the basic level…to new product development in medium term (2 to 4 yrs)"
- **Applied research:** "improving current products and services and conducting specialized research for clients"

Essays of an Information Scientist, Vol 10: p380, 1987
Current contents, #51-52, p3, December 21-28, 1987
http://www.garfield.library.upenn.edu/essays/v10p380y1987.pdf



Current Comments®

EUGENE GARFIELD

INSTITUTE FOR SCIENTIFIC INFORMATION®
3501 MARKET ST., PHILADELPHIA, PA 19104

The R&D Mission at ISI: Basic and Applied Research, for Us and for You

Numbers 51-52 December 21-28, 1987

Virtually every company of any significant size—whatever its business—supports a program of research and development. R&D departments help management to improve existing products and often suggest new ones. Until relatively recently, labor or capital resources were the dominant inputs in manufacturing. Today, knowledge, especially in the form of technology, is increasingly becoming the key element in a company's success. More and more, know-how yields that all important competitive edge. And what holds true for a company also holds true for a nation's economy: this year's Nobel laureate for economics, MIT's Robert M. Solow, demonstrated in the late 1950s that technology is the engine that drives an economy's growth.

For companies like ISI® that provide information-based products, knowledge is doubly important. Companies in the information industry are constantly seeking new knowledge about knowledge—how it can be manipulated, divided, or joined together for a variety of purposes and end-users. It is not an exaggeration to say that ISI's expenditure on R&D is one of its most important investments in the company's future, in its ability to serve customers and thereby ensure its own prosperity and longevity.

innovative analytical methods and procedures that, when used in conjunction with ISI's databases, further information or knowledge retrieval and contribute materially to greater understanding of the process and development of science.

In basic research, the department investigates the structure of the knowledge embodied in the academic literature. In strategic research, it nourishes discoveries from the basic level that offer potential for new product development in the medium term (two to four years in the future). In applied research, the department is involved in improving current products and services and in conducting specialized research for clients.

That last function—research sponsored by extramural agencies and institutions—has not been discussed much in *Current Contents®*. Rather than listing the almost innumerable types of research that the department can undertake, I have asked Henry to describe the general capabilities and recent activities of his team. In this way, readers can imagine how our resources might be applied to their specialized information needs.

As Henry mentions at the end of his summary, one of our long-term goals is the development of a knowledge database that

Institute for Scientific Information (ISI): the “university” of Clarivate Analytics

ISI has been re-established to extend the pioneering work of Dr. Eugene Garfield

- ISI **maintains the corpus of knowledge around research metrics, preserving its independent integrity.** Web of Science and related content, products, and services are built upon this key corpus.
- ISI **disseminates that knowledge** internally through reports and recommendations as well as externally through events, conferences, and publications.
- ISI **carries out research** to sustain, extend, and improve the knowledge base.

The Institute for Scientific Information (ISI)

The "university" of the Web of Science Group

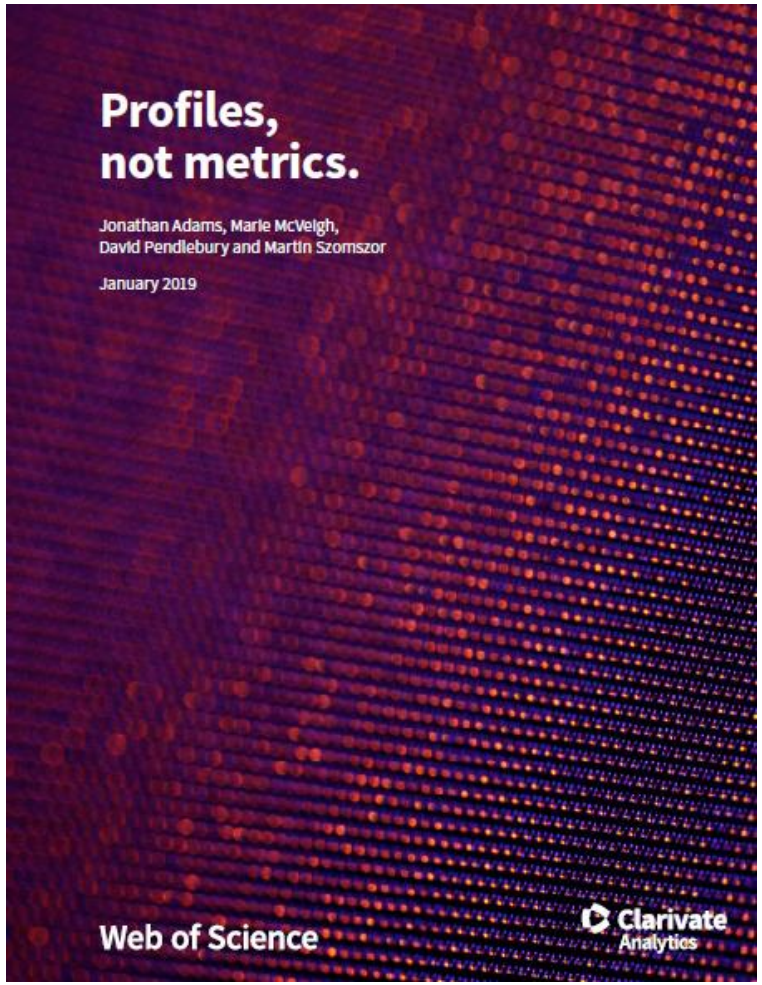
The Institute for Scientific Information (ISI) builds on the work of Dr. Eugene Garfield - the original founder and a pioneer of information science. Named after the company he founded – the forerunner of the Web of Science Group – ISI serves as a home for analytics expertise and is our R&D group.

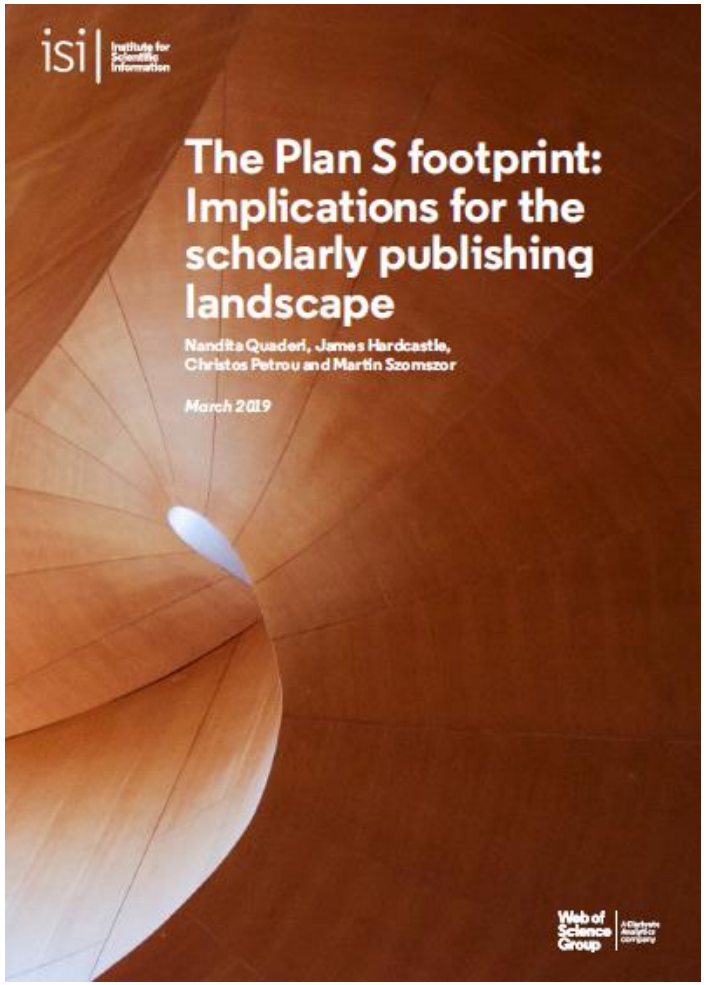
- ISI maintains the foundational knowledge and editorial rigor upon which the Web of Science database and its related products and services are built.

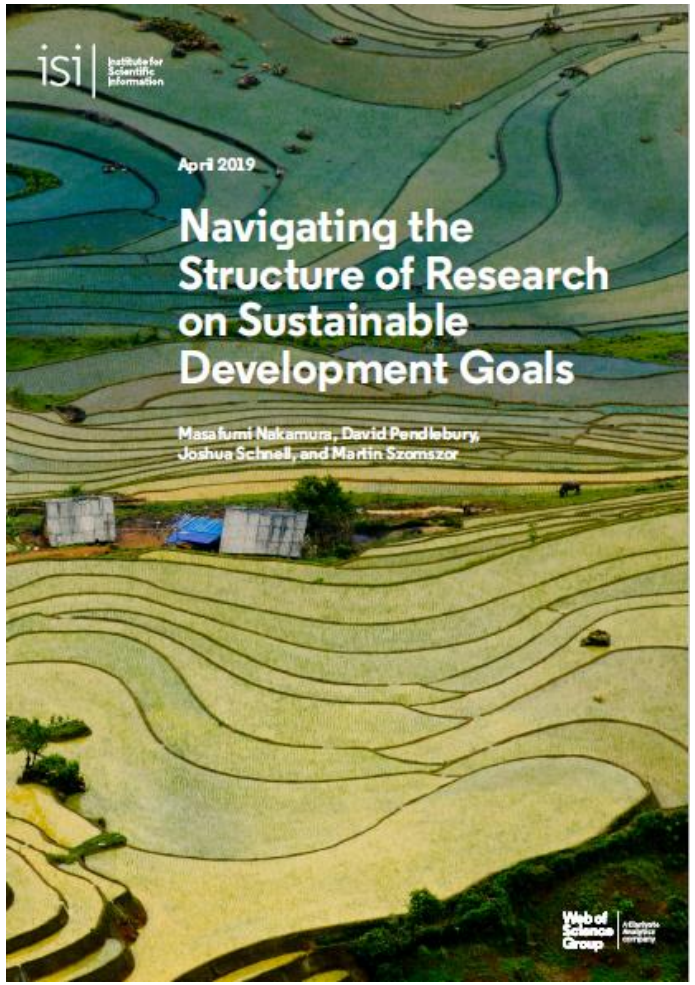
- Disseminates that knowledge to our colleagues, partners and all those who deal with research in academia, corporations, funders, publishers and governments. An example being the two reports produced by ISI this year.

- ISI is focused on the development of existing and new bibliometric and analytical approaches, fostering collaborations with partners and customers across the global research community.

ISI Global Research Reports







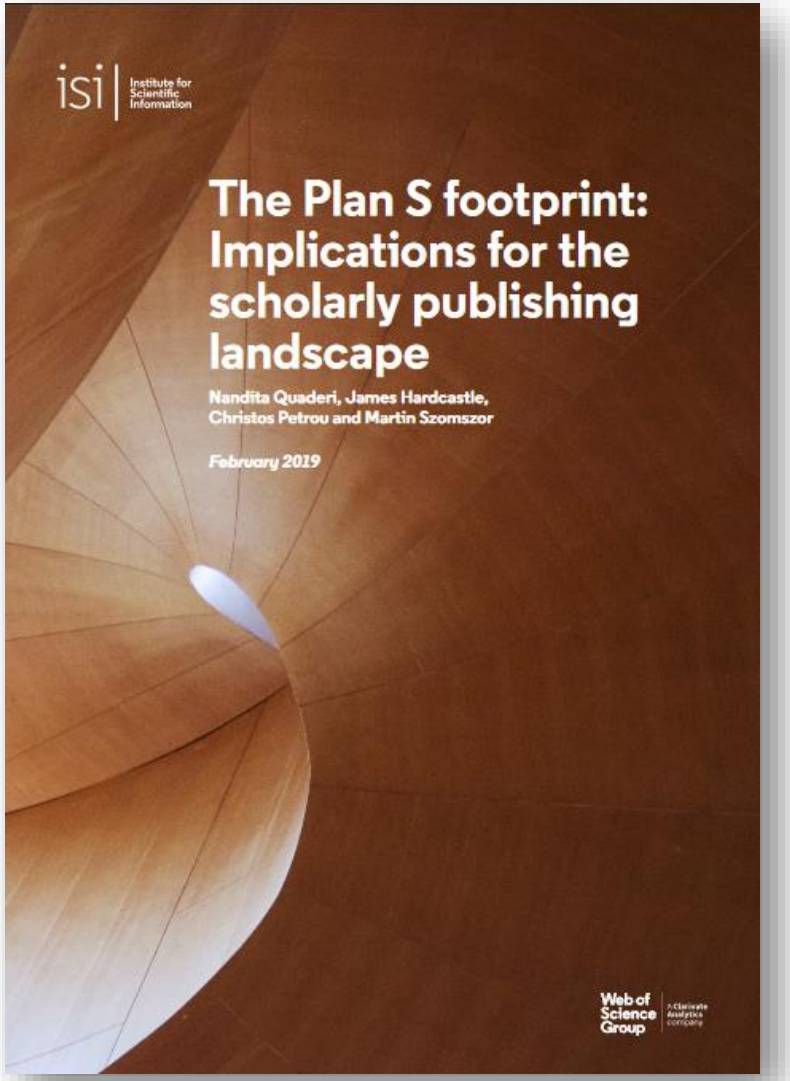
Ongoing Commitment to Academic Research

A commitment to innovation in academic research

http://discover.clarivate.com/garfield-award-2019

Institute for Scientific Information (ISI): the “university” of Clarivate Analytics

ISI has been re-established to extend the pioneering work of Dr. Eugene Garfield



https://clarivate.com/g/plan-s-footprint/

- The report looks to provide an **unbiased and data-driven background analysis** to inform debate around Plan S, based on journal data taken from the *Web of Science Core Collection*
- The report examines **potential implications** for funders, publishers, institutions and researchers
- Questions posed in the report are backed up by *Web of Science Core Collection* data
- Web of Science Group **remains unbiased** in Plan S discussions

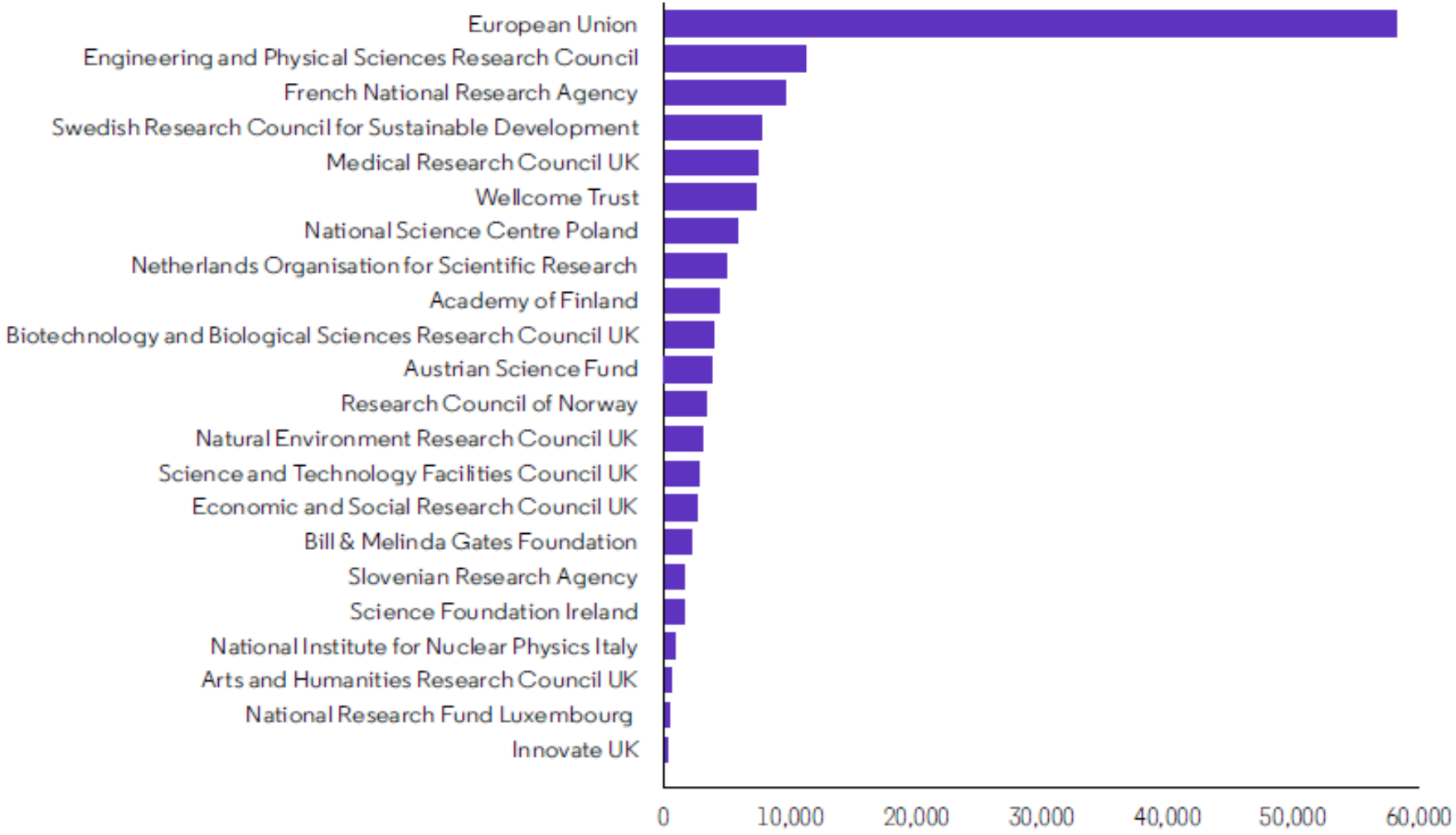
cOAlition S

Plan S requires that, from 2020, scientific publications that result from research funded by public grants must be published in compliant Open Access journals or platforms.

The individual members of cOAlition S will align their grant agreements and/or contracts with Plan S and monitor compliance and sanction non-compliance through enforcing contractual requirements

Papers funded by Plan S organisations

Plan S-supported research led to circa 6.4% of 2017 papers indexed in Web of Science; the EU funded about half of this.

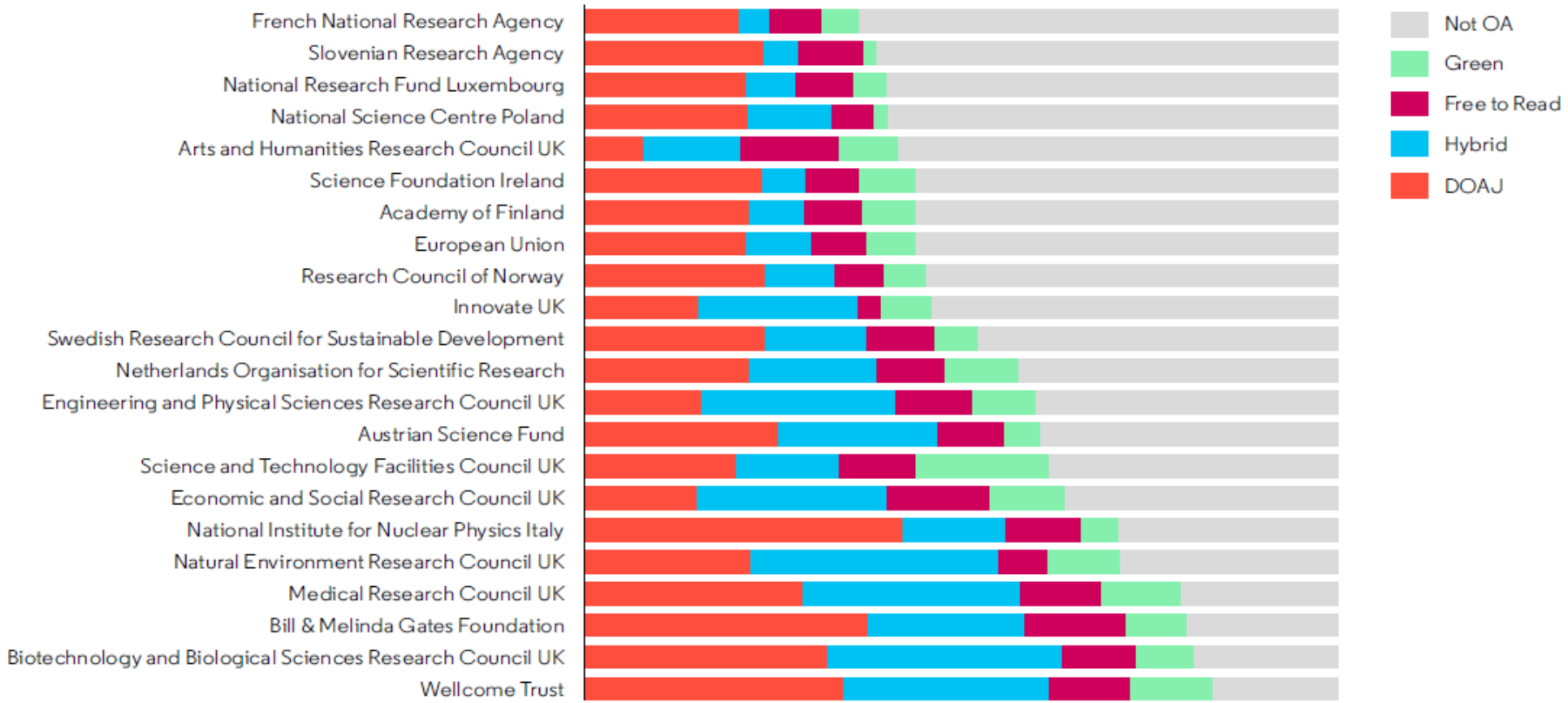


Count of papers published in 2017 and indexed in Web of Science that acknowledge one or more funding organizations that have indicated support for Plan S.

Web of Science Group

Papers funded by Plan S organisations

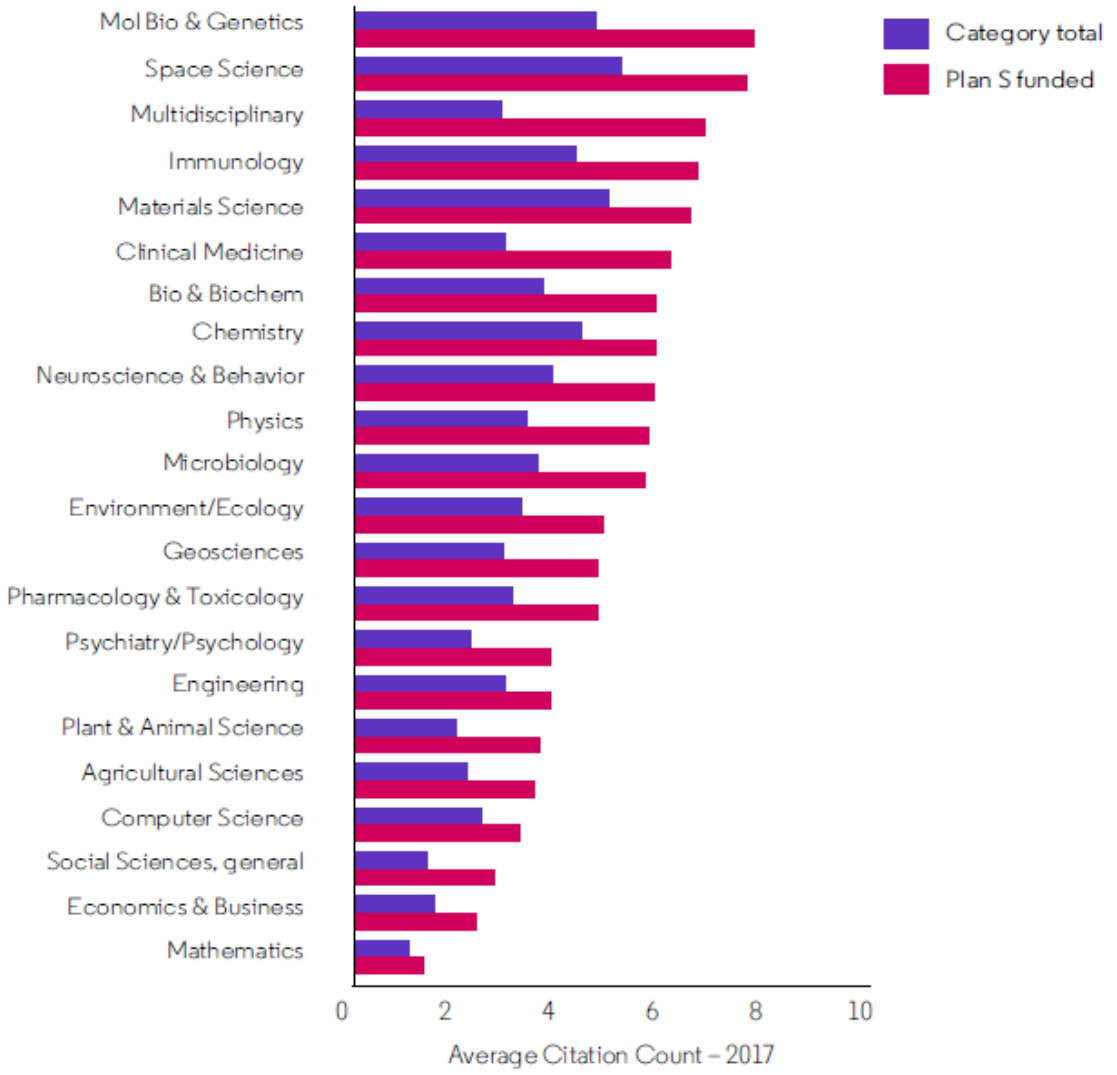
Although OA compliance is already substantial, the proportion varies by funder; funders that have a strong existing OA mandate have high Gold OA take up



The proportion of papers published in 2017 that acknowledge one or more funding organizations that have indicated support for Plan S grouped by Open Access status.

How frequently are Plan S papers cited?

On 2017 citation counts, Plan S funded papers are cited more frequently on average than other papers, and this is true in all research areas.



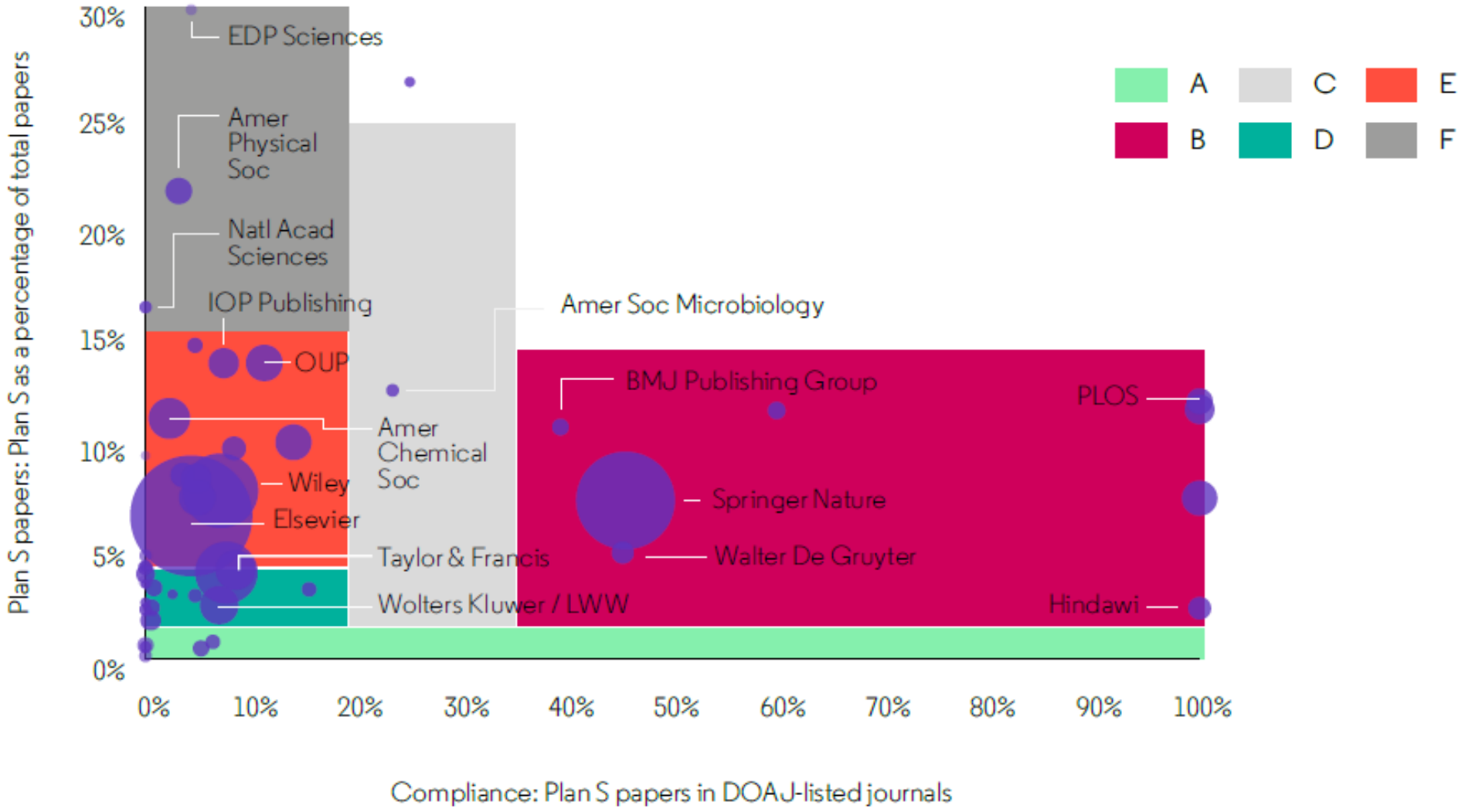
Average citation counts for papers published in 2017, grouped by ESI research categories, comparing those funded by Plan S agencies with overall Web of Science content.

Web of Science Group

How does Plan S affect publishers?

https://clarivate.com/g/plan-s-footprint/

The larger 200 larger houses collectively publish 95% of papers acknowledging a Plan S funder. They can be classed as follows: affected a little; a few (including some big houses) affected significantly; and OA-adopters who are well-positioned.



Open Access

Leading innovation in Open Access discovery and delivery

50%

~50% of recent scholarly papers are estimated to be freely available[1]

11k

Gold OA Journals[2]

100+

Funder OA mandates[3]

5k+

Institutional repositories[4]

420k+

articles published in "predatory" OA journals since 2000[5]

1

.

In 2017, we funded ImpactStory's algorithm and implemented it in the Web of Science

Impactstory

Web of Science is the **first & only** editorially **curated** and **publisher-neutral discovery resource** for trusted, peer-reviewed **Open Access** content.

[1]Archambault É. et al. (2014). Proportion of open access papers published in peer-reviewed journals at the European and world levels–1996–2013. ScienceMetrix ; Piwowar H. et al. (2017). https://doi.org/10.7287/peerj.preprints.3119v1

[2]https://doaj.org/faq

[3]http://roarmap.eprints.org/

[4]Unpaywall Source List: http://unpaywall.org/sources

[5]Shen C. & Bjork , B. (2015). 'Predatory' open access: a longitudinal study of article volumes and market characteristics. BMC Med 13: 230 doi: 10.1186/s12916-015-0469-2

Web of Science Group

What types of Open Access are identified in the Web of Science?

DOAJ Gold
100% of the articles published within a journal are open access.

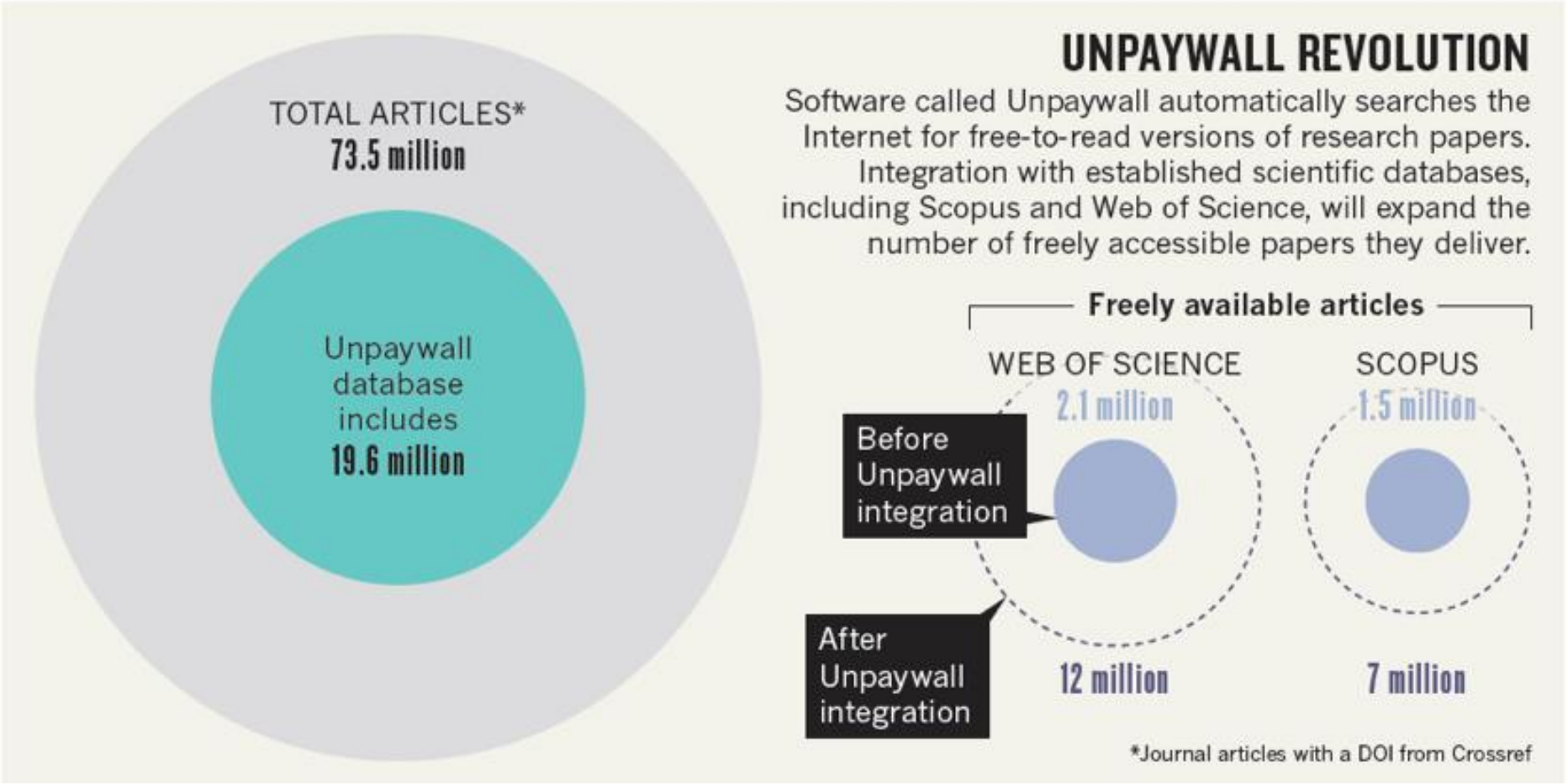
Other Gold
a.k.a. “Hybrid” Individual articles that are available at no charge from otherwise subscription-based journals. These papers have been identified by Impactstory as having a Creative Commons (CC) license that are not in DOAJ journals.

Bronze
A freely accessible final version of an article on a publisher's website. Bronze OA on Web of Science can contain free-to-read copyrighted "public access" versions and free-to-read versions where license information was unidentifiable.

Green Published
Papers are final published articles available without charge from a repository.

Green Accepted
Papers are peer-reviewed, accepted manuscripts available without charge from a repository.

Web of Science covers both Green and Gold Open Access Versions



Source: Crossref/Unpaywall/Impactstory/Elsevier/Clarivate Analytics

Else, H. (2018). How Unpaywall is transforming open science.
Nature, 560(7718), 290-291. doi:10.1038/d41586-018-05968-3

Web of Science Core Collection – 3 editions

Results: 169,430
(from Web of Science Core Collection)

You searched for: cu=Ukraine
Timespan: 1900-2019. **Indexes:** SCI-EXPANDED, SSCI, A&HCI, CPCI-SSH, ESCI.

...Less

Create Alert

Refine Results

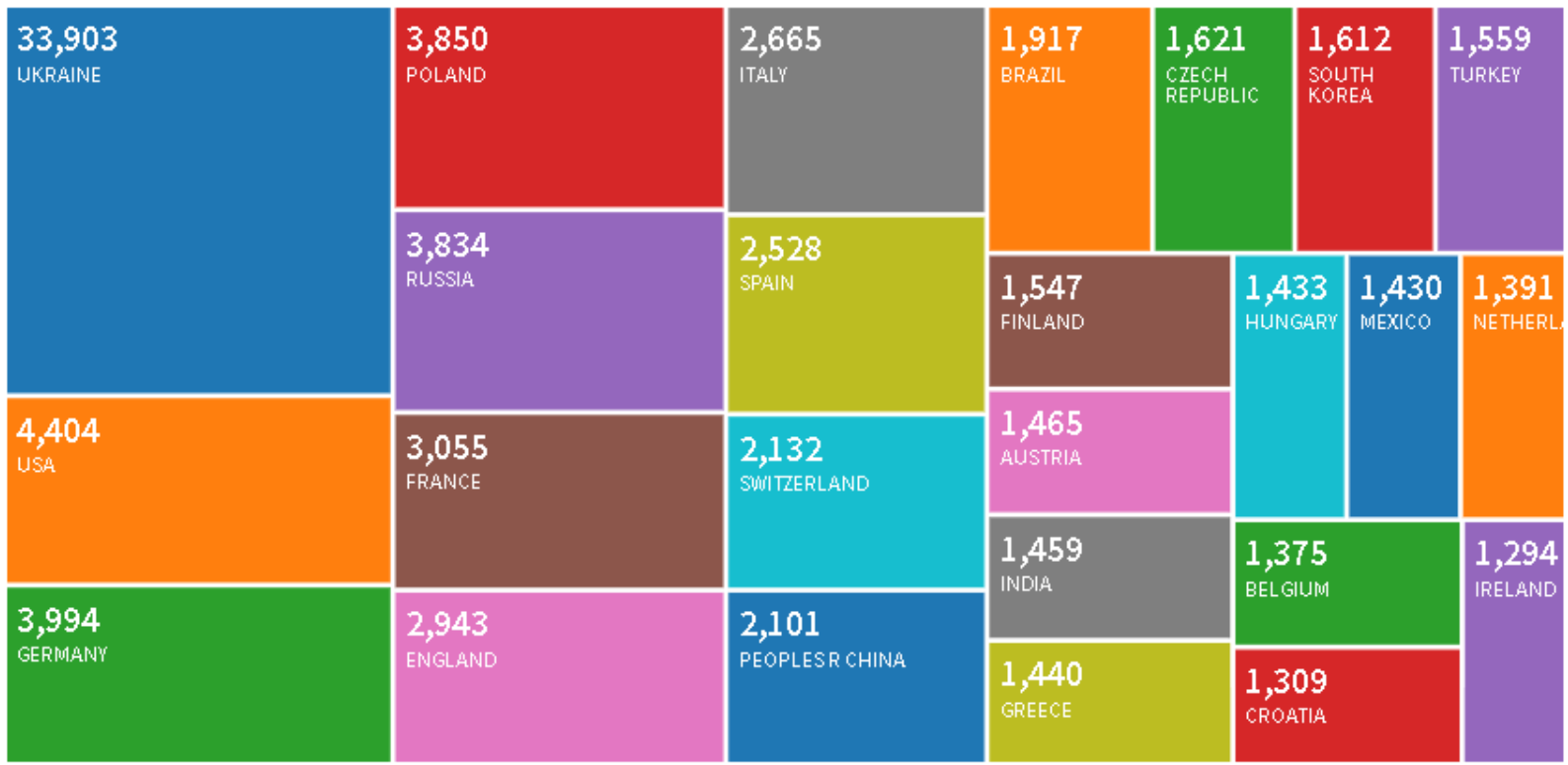
Search within results for...

Filter results by:

- Highly Cited in Field (385)
- Hot Papers in Field (27)
- Open Access (33,903)
- Associated Data (955)

Open Access

- All Open Access (33,903)
- DOAJ Gold (18,899)
- Other Gold (6,420)
- Bronze (7,326)
- Green Published (5,877)
- Green Accepted (409)



Web of Science Group

Web of Science Core Collection – Emerging Sources Citation Index

Results: 17,103
(from Web of Science Core Collection)

You searched for: cu=Ukraine
Refined by: Open Access: (OPEN ACCESS) AND **WEB OF SCIENCE INDEX:** (WOS.ESCI)
Timespan: 1900-2019. **Indexes:** SCI-EXPANDED, SSCI, A&HCI, CPCI-SSH, ESCI.

...Less

Create Alert

Refine Results

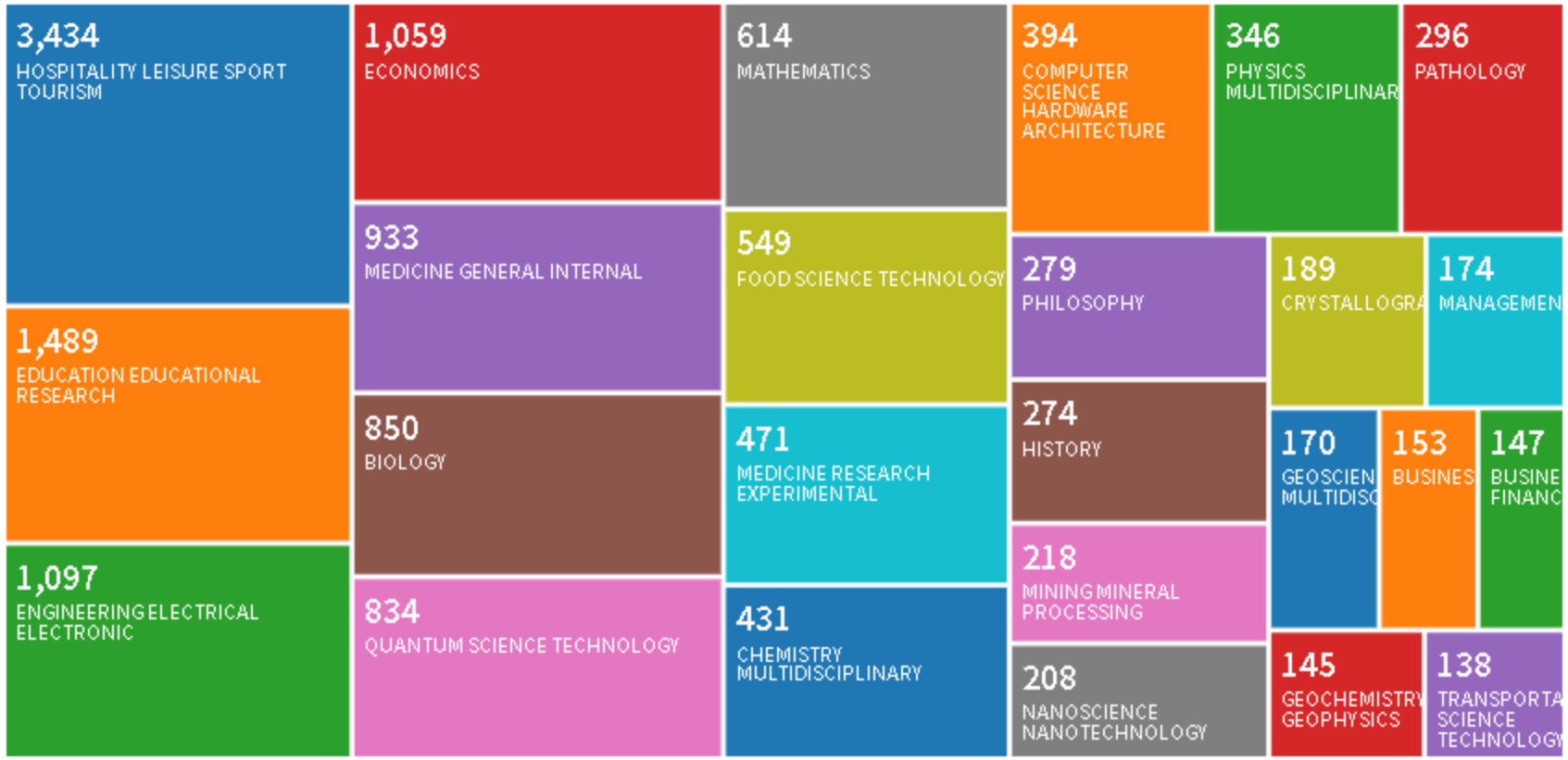
Search within results for...

Filter results by:

- Open Access (17,103)
- Associated Data (169)

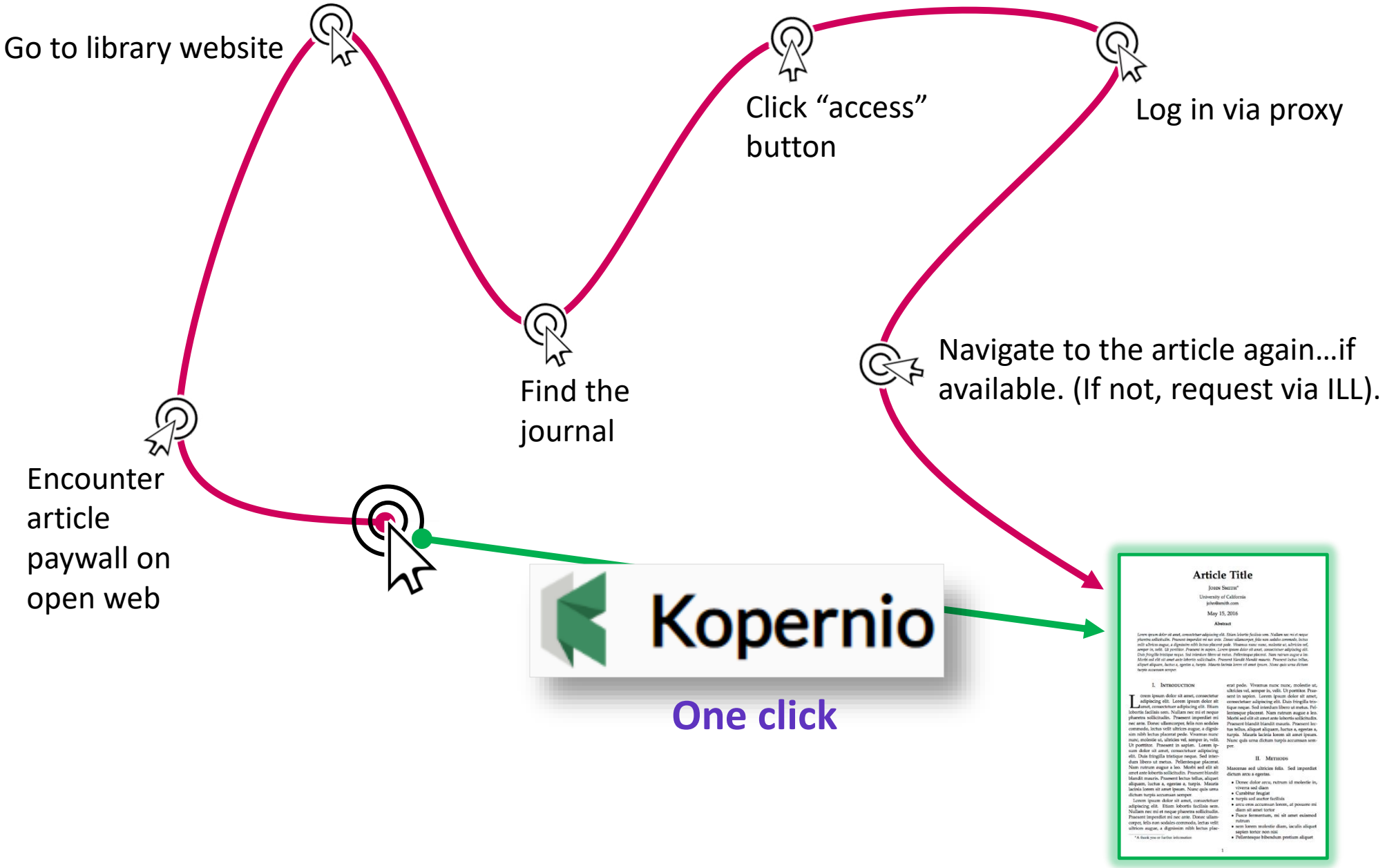
Open Access

- All Open Access (17,103)
- DOAJ Gold (13,199)
- Other Gold (2,205)
- Bronze (1,818)
- Green Published (771)
- Green Accepted (4)



Access to Full Text

A typical path to Full Text



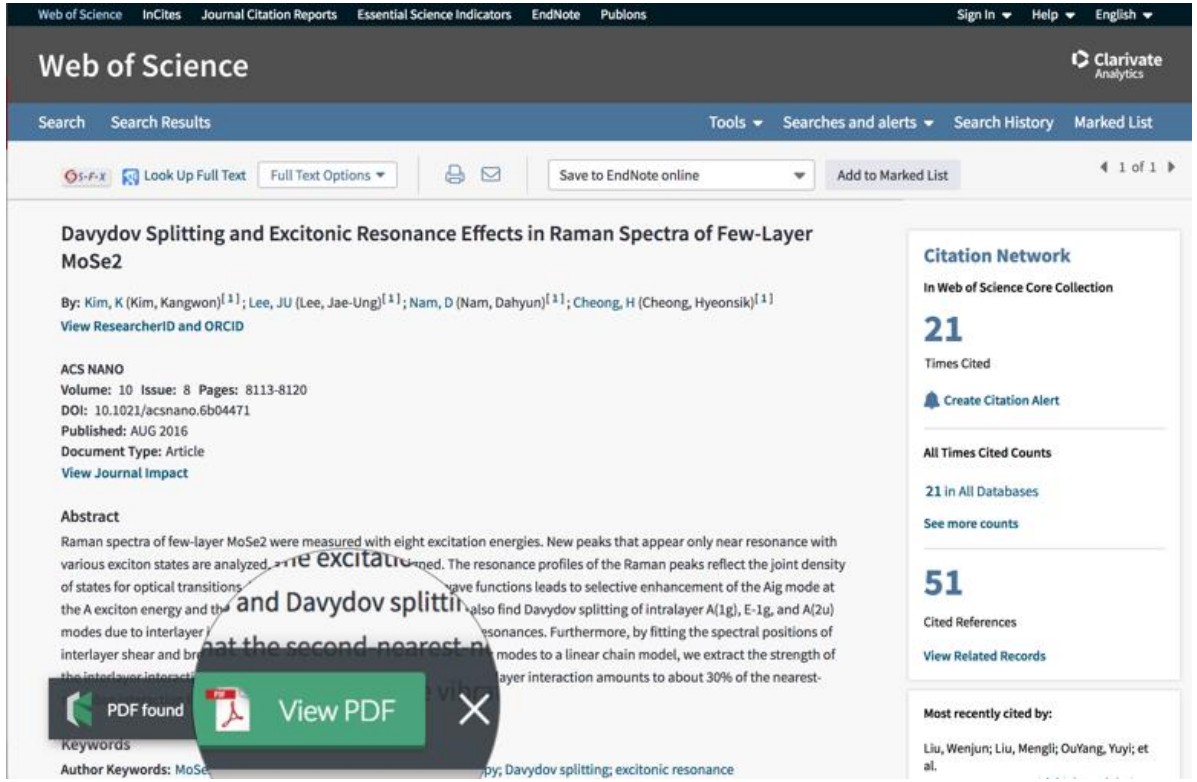
Kopernio- provides one-click access to legal PDFs

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

- You can install and use Kopernio for free.
- Workflow automation tool finds PDFs as you browse the internet.
- Integrates with over 20 thousand scholarly sites, including Google Scholar and Pubmed.
- Always attempts to point you to the final published paper.
- Records usage in your COUNTER reports.
- Increases reach and impact of your institutional subscriptions.
- Finds OA and Preprints when no subscription is available

Install in Chrome

Firefox Extension



Automatically store PDF in ones locker (storage area)
Integration with EndNote and other Bibliographic Management Software

Web of Science Group

Kopernio

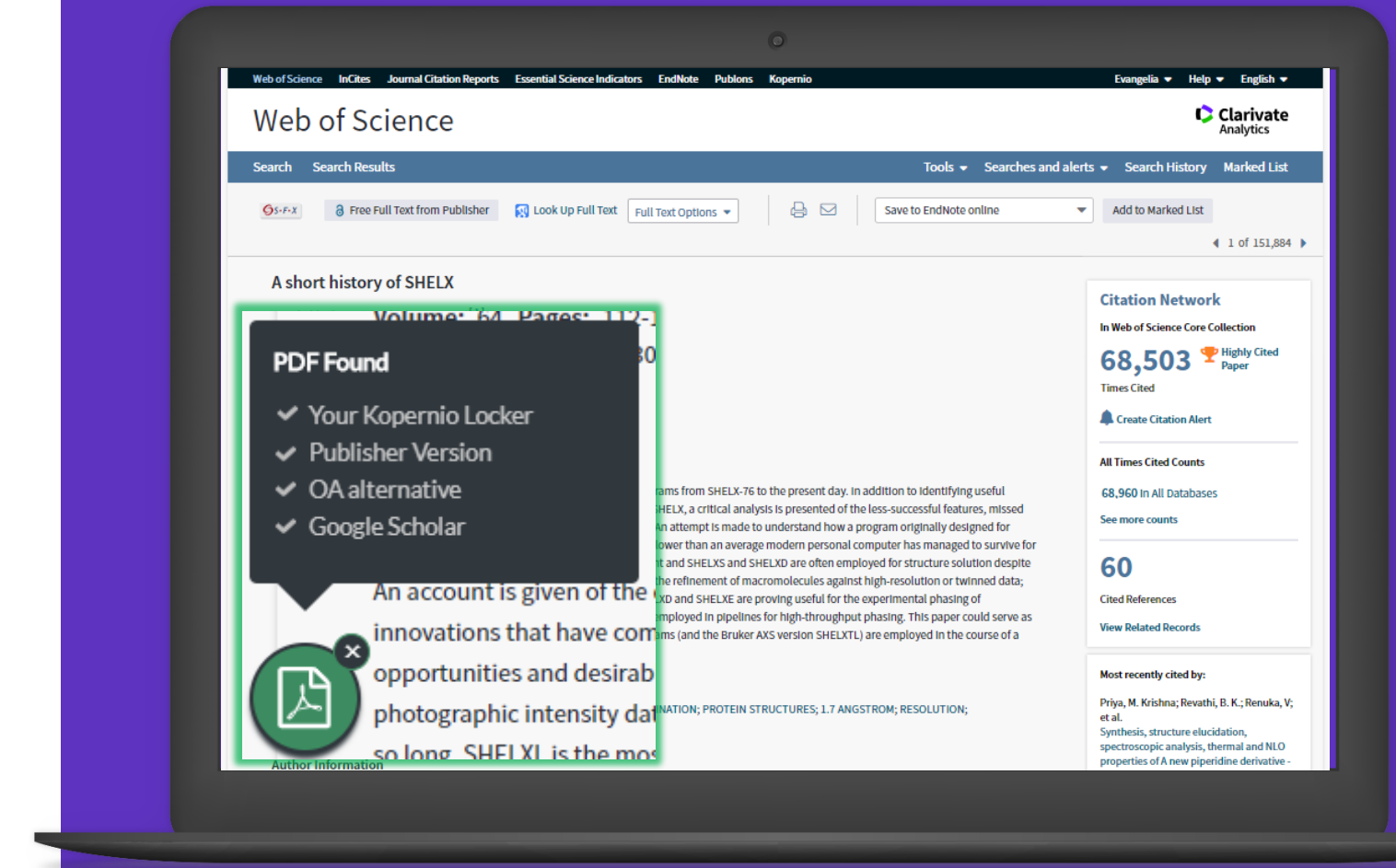
One click access
to journal articles

Kopernio integrates with **library proxies** and **library authentication systems** to retrieve research **articles via library subscriptions**.

Kopernio always tries to source **the journal article from the publisher platform first**

Kopernio will search (where possible) your university's subscriptions and open databases to find the best version of the paper for you.

Kopernio makes library budgets go further by adding free alternatives where no subscriptions are available.



Kopernio

Researchers – Helps save researchers both time and frustration while searching for access to the content they need.

- Travels with the researcher as they search and discover journal articles on the web;

- Brings the institution's subscriptions to the point of need for the researcher, and across many different platforms, on- and off-campus. If no subscription access is available, delivers a free alternative, e.g. an OA version or preprint.

Institution/ Librarians– Ensure libraries maximize the value and impact of their library's collections by radically streamlining users' access to subscribed content across many different platforms, on- and off-campus.

- Delivers to the point-of-need of the researcher and by extends FT with freely available content (e.g. OA or preprints) in case no subscription access is available.

Publishers/Societies/Editors – Kopernio is focused on delivering users the legal, official version of record for an article driving downloads directly to the publisher's journal site, wherever possible.

Available Now

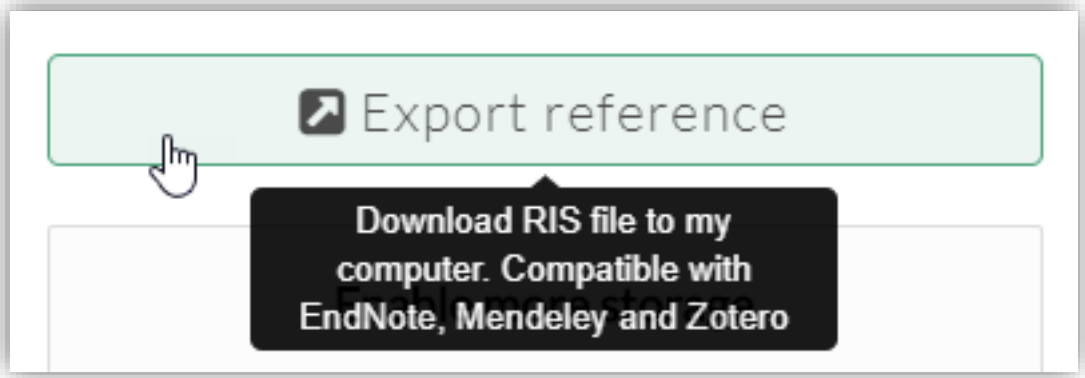
What's Next for Kopernio?

EndNote Integration

You can now download references for any PDF in your Kopernio locker as an .RIS file.

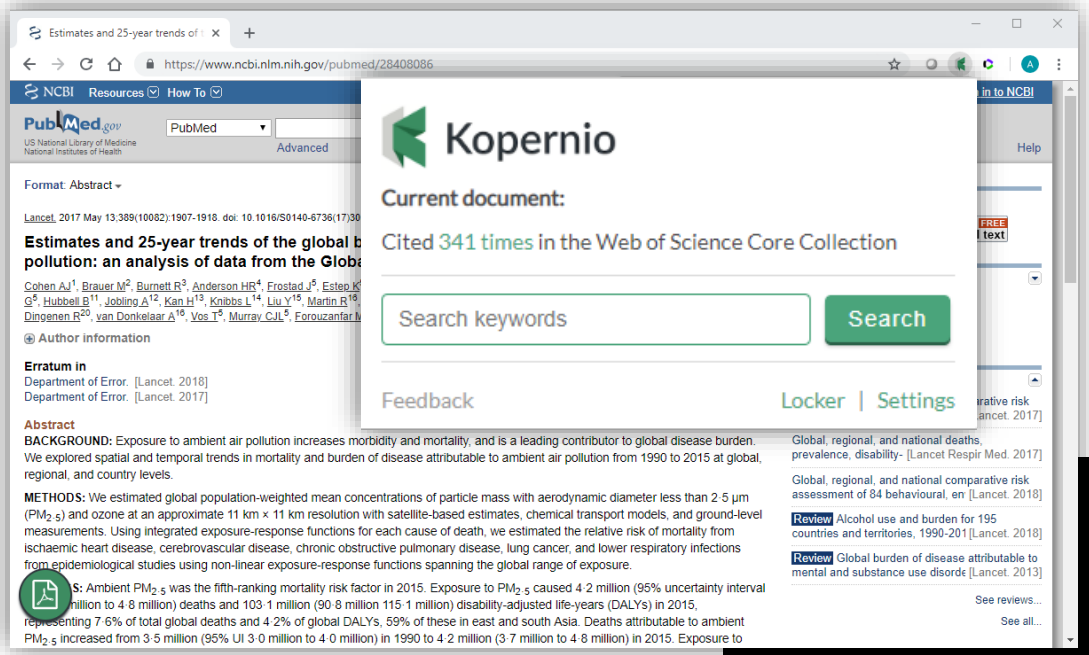
EndNote users can **download both the PDF and bibliographic information in one click!**

Will integrate with Mendeley and Zotero as well



Web of Science Integration – *Coming Soon*

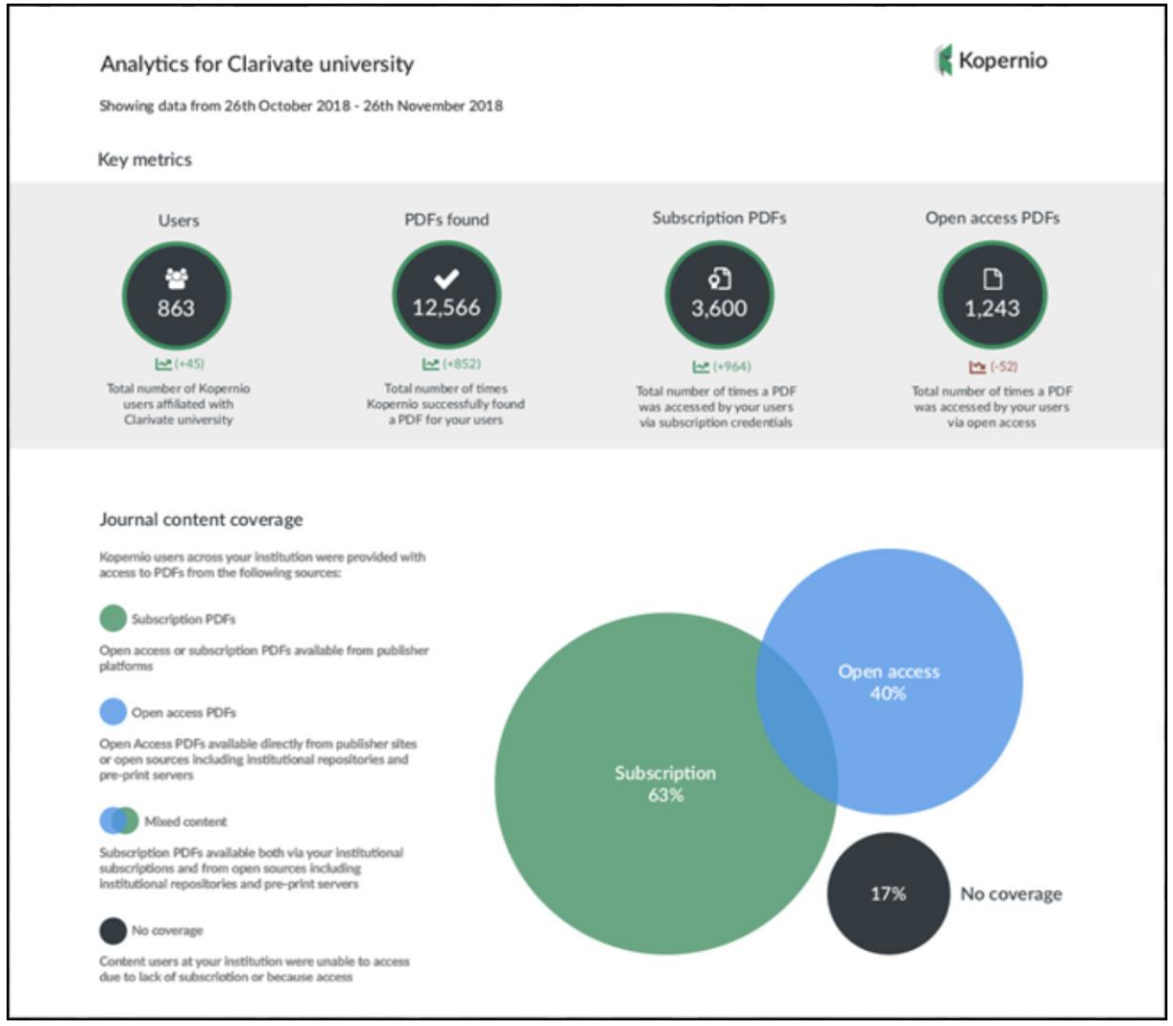
View the number of times a paper has been cited in the Web of Science Core Collection by clicking one button in your browser.

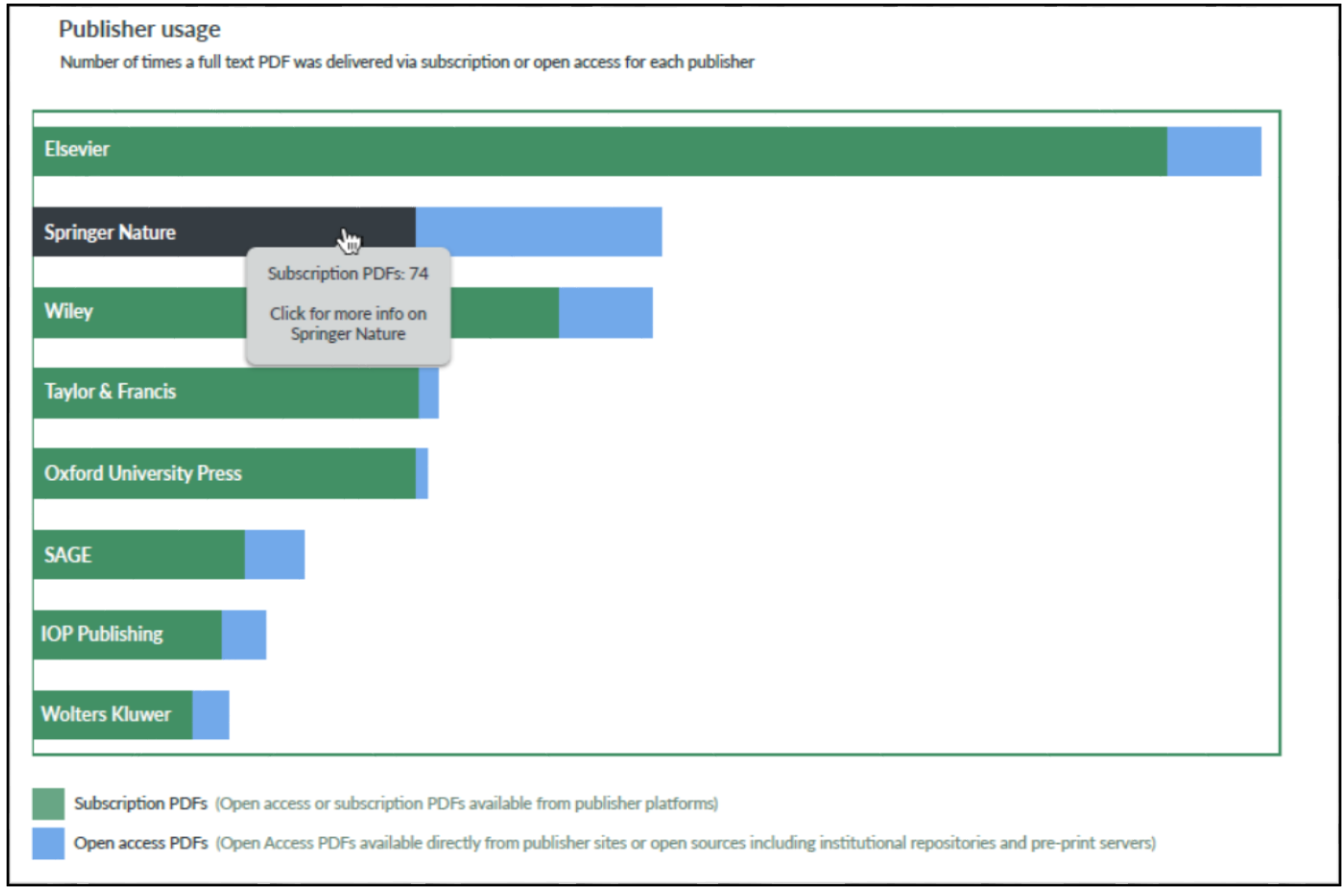


Web of Science and Kopernio: Connecting the librarian/institution to the researcher -

In Beta Testing

Kopernio Analytics dashboard will help understand subscription value





New Research Portal – Publons Researcher Identity

publons was the first to address unique challenges of researchers

Credit

Peer review represents a valuable, time-consuming contribution to the scholarly record, but is not commonly acknowledged on C.V.s and in faculty activity reporting. Quantifying peer review and making it trackable allows faculty to be recognized for their efforts.

Transparency

While rare, peer review fraud can occur. Verifying peer review activity in a public forum makes the process more transparent.

Journal Evaluation

Publons provides data points beyond bibliometrics that faculty can use to evaluate a journal. Crowd-sourced journal endorsements indicate a journal's efficiency & trustworthiness.
View the Publons Journal List

API

Enrich your Research Information Management System with verified review and journal editor data. The API makes available: peer review records, editorial board membership records, and handling editor records. Learn More

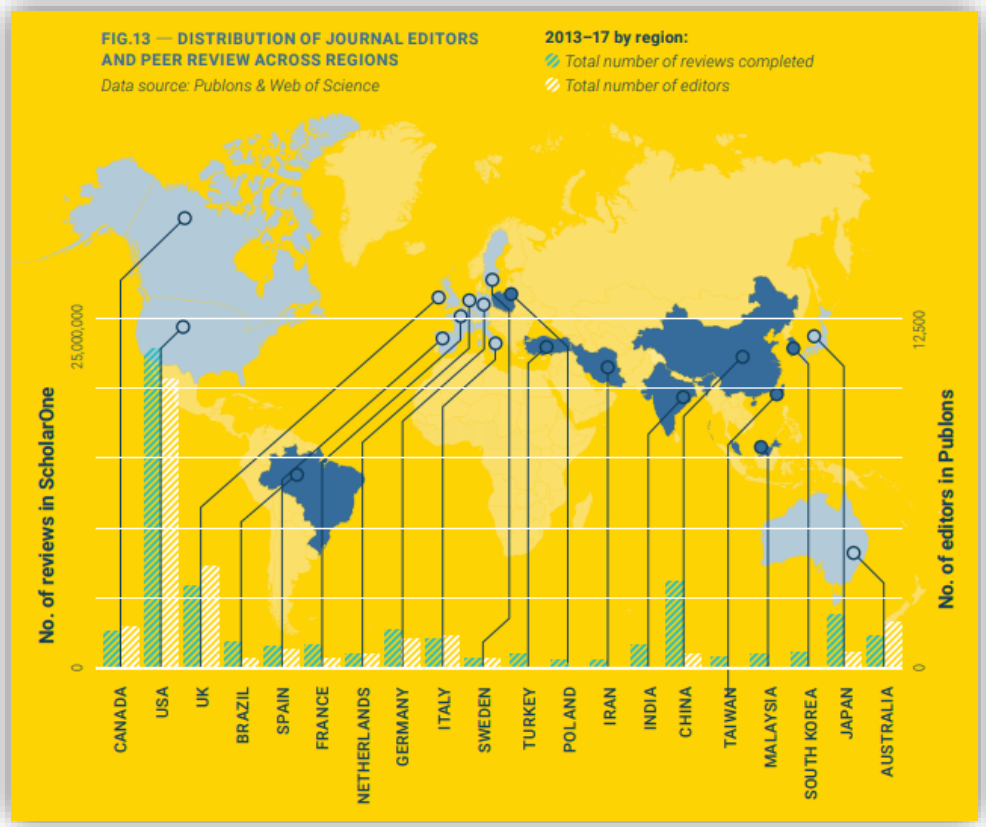
Publons - continues to lead global peer review developments

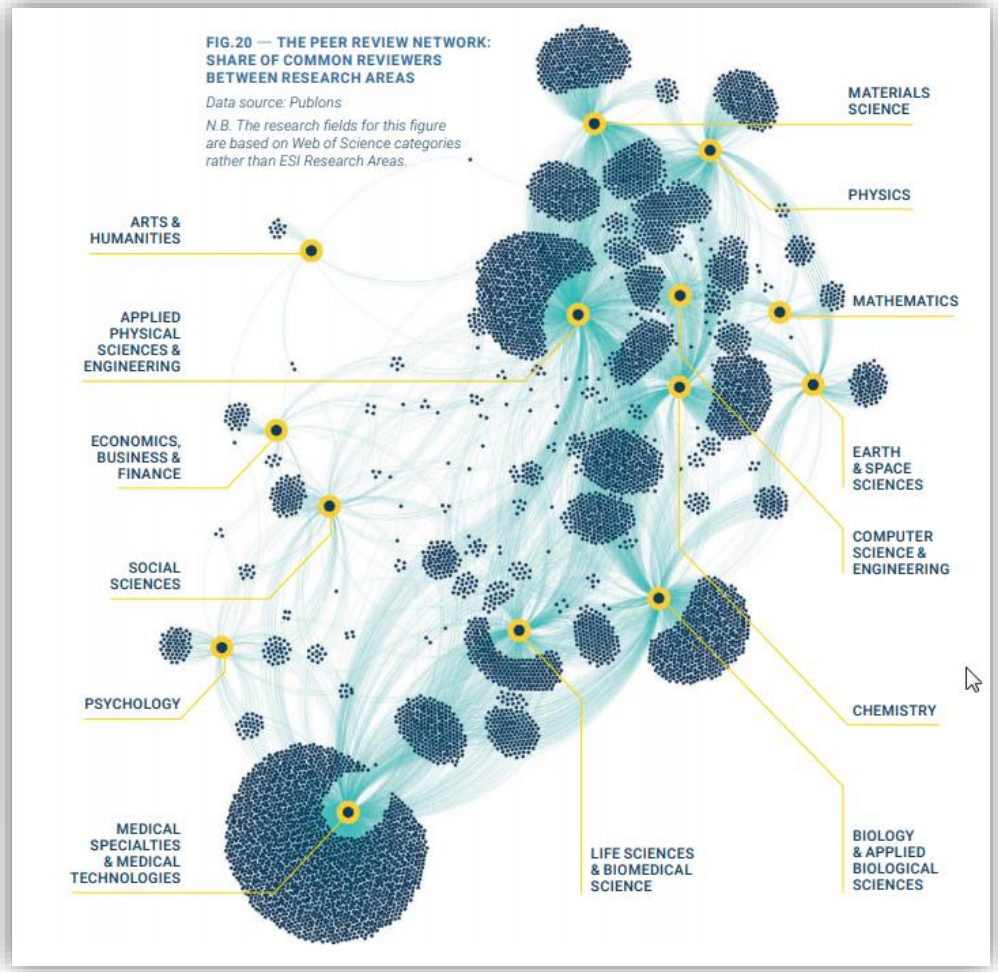
In 2018, Publons released the first edition of the ***Global State of Peer Review*** report—the largest, most exhaustive report of its kind. Publons brings transparency to peer review and provides useful resources to help develop the scholarly ecosystem.

2018 GLOBAL STATE OF PEER REVIEW

The figures at right are from the *Global State of Peer Review* report—an example of the unique insights and support Publons brings to the research community.

View the report





Publons Academy

An online, practical, peer review training course for early-career researchers.

- **Developed together with expert academics and editors**
- **10 modules, comprised of short videos, practice reviews and one-on-one supervision**

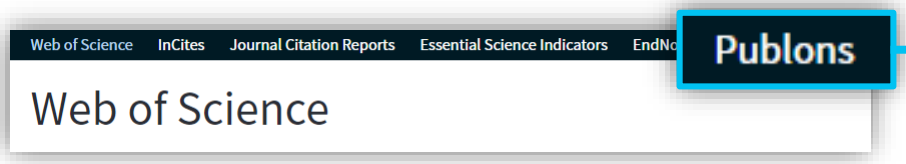
Researchers can:

- ✓ **Gain confidence** in the core competencies for peer review
- ✓ **Hone their academic writing skills** to impress editors
- ✓ **Build their profile as an expert** in their field and advance their career
- ✓ **Understand the peer review process**
- ✓ **Connect with journal editors** to start reviewing immediately

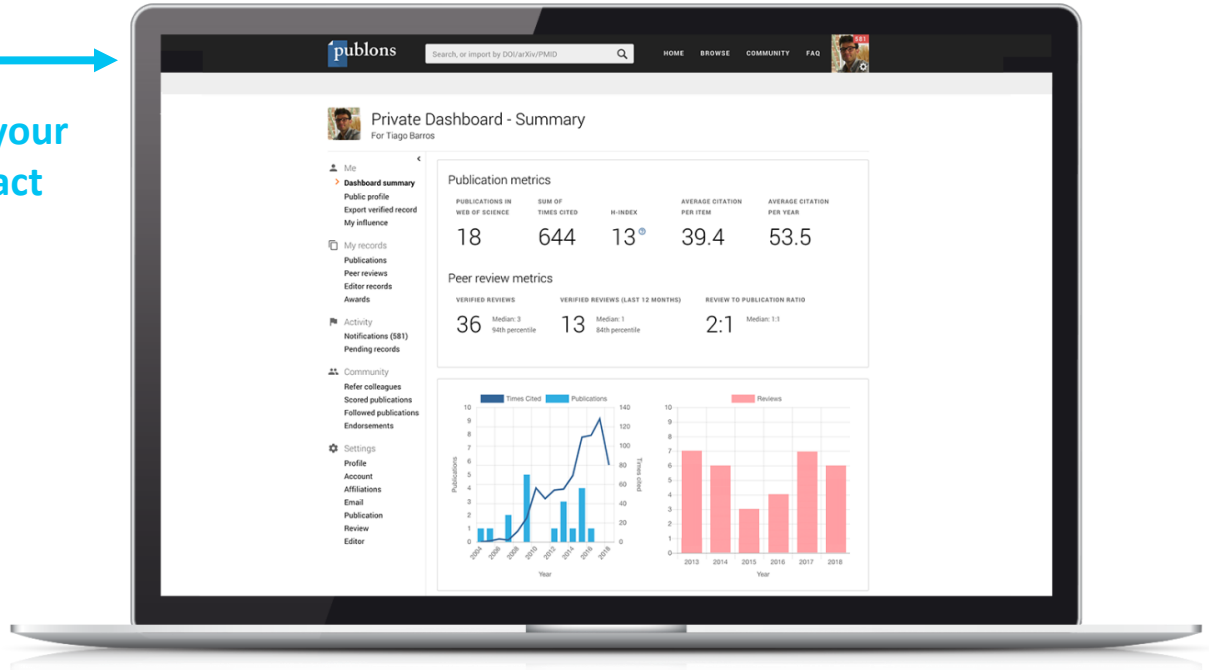
Learn More about Publons Academy

Publons – Creating a full profile of your research activities

Publons is a profiling system where you can track your publications, citation metrics, peer reviews, and journal editing work in one, easy-to-maintain profile.



Track more of your research impact



- **Create a profile** or browse Publons for **free at publons.com**.
- **Import publications** from Web of Science, ORCID, or your bibliographic reference manager (e.g. EndNote or Mendeley)
- **View trusted citation metrics**, automatically imported from the Web of Science.
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- **Download a record summarizing your scholarly impact** as an author, editor, and peer reviewer.

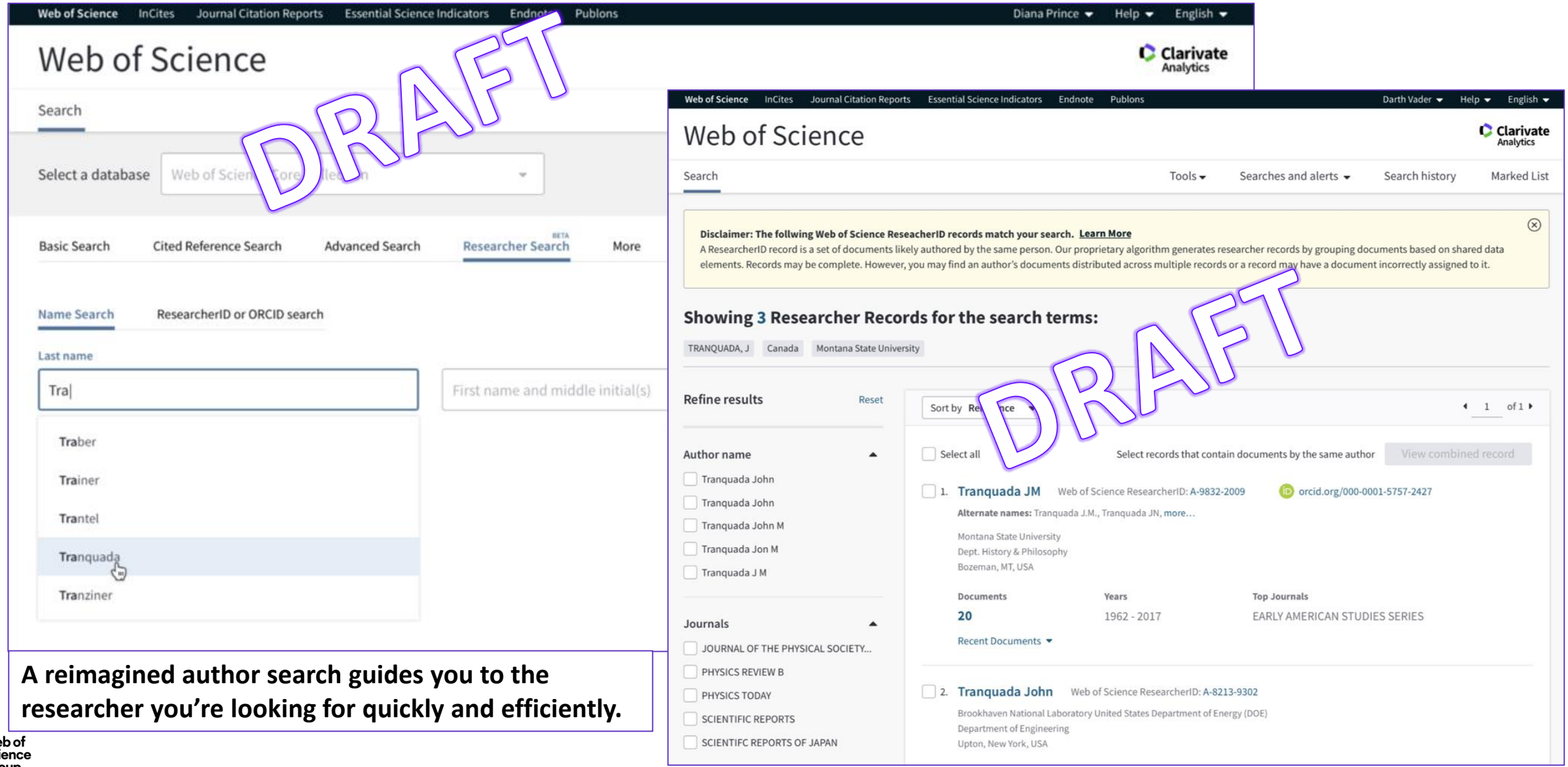
540,000+
Researchers

3 million+
Reviews

25,000+
Journals

Coming Soon: Author Search Redesign in *Web of Science*

Available 3rd Qtr. 2019

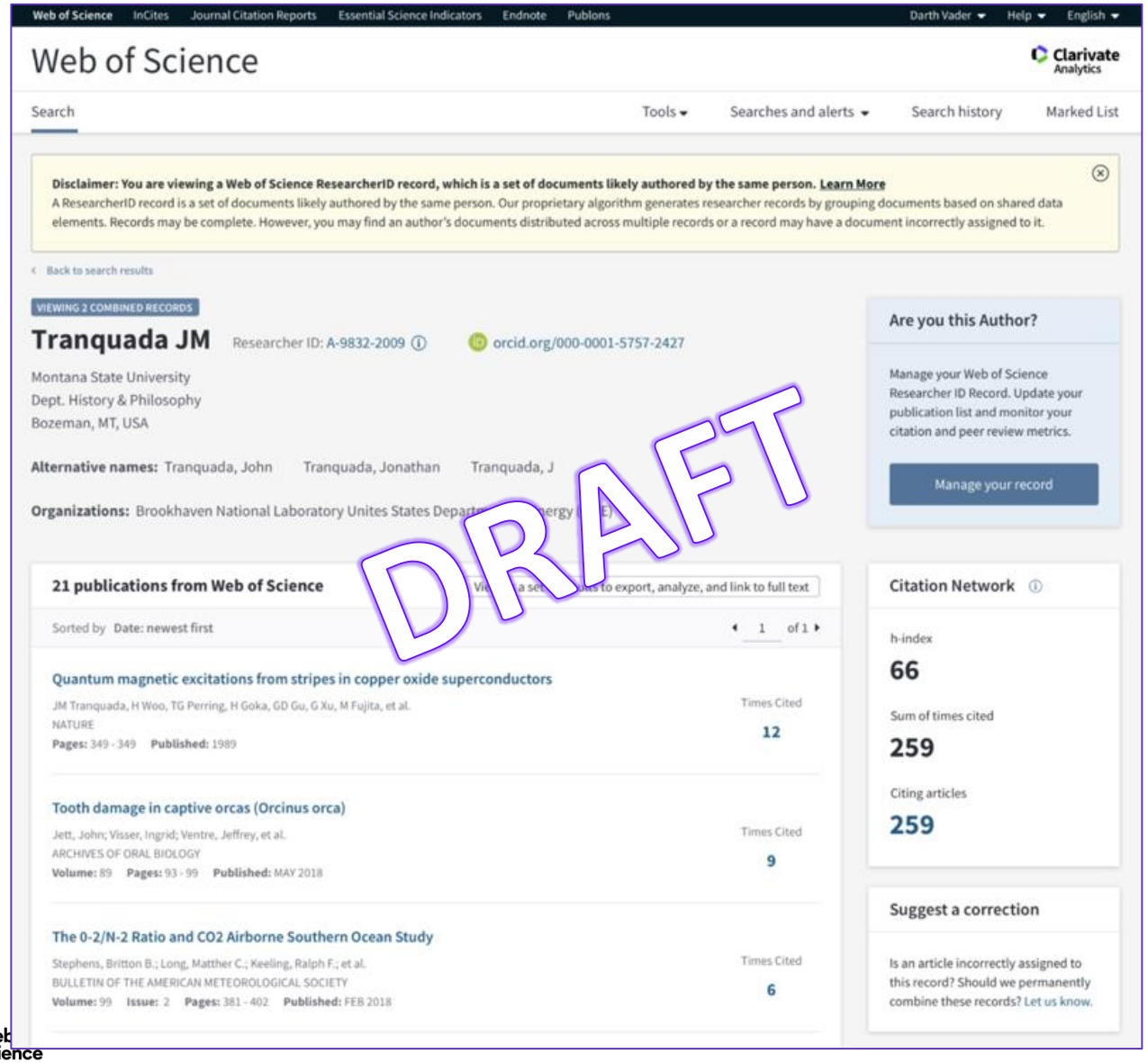


A reimagined author search guides you to the researcher you're looking for quickly and efficiently.

Web of Science Group

Available 3rd Qtr. 2019

Coming Soon: Author Record and Identifier



Researchers will be able to claim ownership and maintain their records!

- **See a unified view of an author's output and performance metrics.**
- **Navigate to a summary view of an author's publications to export, analyze, link to full text, and more**
- **Submit feedback: Let us know if a paper is incorrectly assigned to an author, or if we should combine records for an author. Changes will update the record for all Web of Science users.**

Web Science Group

Analytics:
Strategize your publication activities

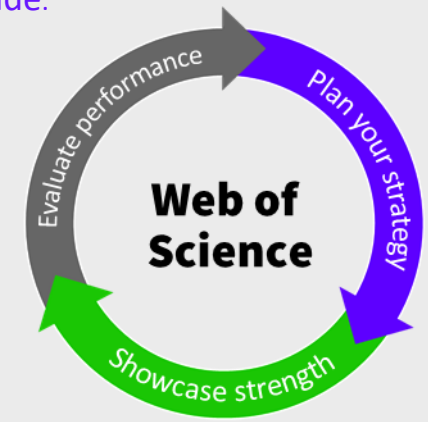
WOSG Research Evaluation & Management Solutions

High-quality metadata • Research Portals • Custom Dashboards • Expert Consulting

InCites Benchmarking & Analytics
Benchmark your institution's research output against peers worldwide.

Research Fronts Navigator
Identify hot topics and emerging research areas in fields relevant to your institution to inform your strategic decisions.

APIs and Custom Data
Improve your institutional systems with trustworthy publications data.



XML Dataset
Your faculty can perform large-scale network analytics and "big data" projects that mash up bibliometric data from the Web of Science with other data types.

Converis
Manage the research workflow at your organization with a customizable CRIS system configured to meet your needs.

Professional Services
Our team of PhD consultants can produce custom analyses based on your specific goals, and offer consulting services.

VIVO Services
We can build or improve your VIVO implementation for you, and offer consulting services.

Author Connect Service
Market your institution to our the world's top researchers.

Evidence-based decision making requires trustworthy evidence.

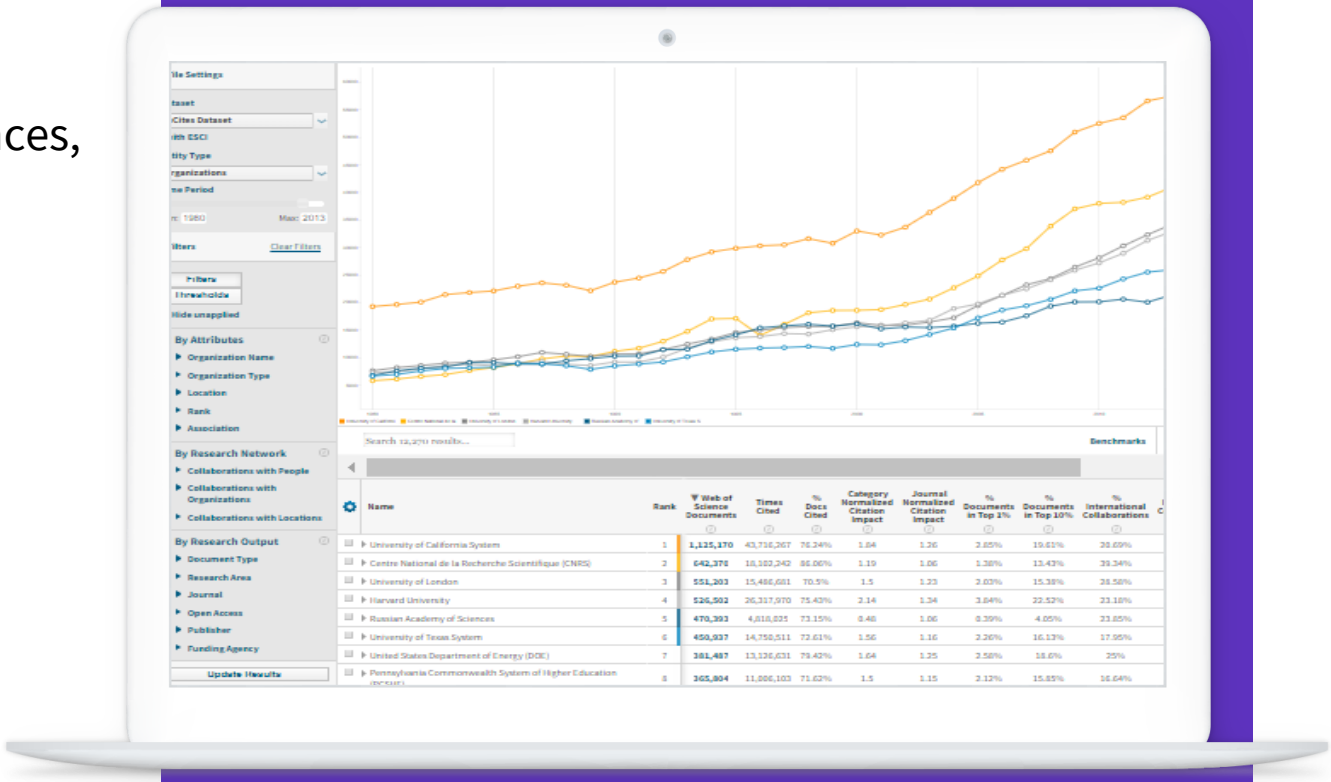
Support your strategic initiatives with the world's most trusted source of publication and citation data.

Web of Science Group

InCites Benchmark & Analytics

An objective analysis of people, programs and peers

- Web of Science Core Collection Data: 1980-2018
- 62 M+ records (20,300 K Journals, 198 K+ Conferences, 1.4 M+ Books/Book chapters)
- Identify and manage research activities and their impact
- Benchmark and compare performance to peers
- Promote internal and external partnerships and collaborations
- Identify experts both inside and outside the organization
- Promote areas of strength and specialization



https://clarivate.com/products/incites/

InCites Benchmark & Analytics

An objective analysis of people, programs and peers

Explore InCites Data

227 Countries/Regions

12,508 Institutions

1,040 Funders

20,300 Journals

17 Research Schemas

Bibliometric Analysis

Productivity

Impact

Collaboration

Journal Ranking

Open Access

ORCID

InCites System Reports

Prebuild Reports

Customized Analytics

Personalized Dashboards

Report Sharing

Data Imports & Exports

WoS data imports

Upload Custom datasets

Article Level indicators imports / exports

My Organization

View and analyse your organizational subunits

InCites API

Support your Institutions repository or CRIS with advanced InCites indicators

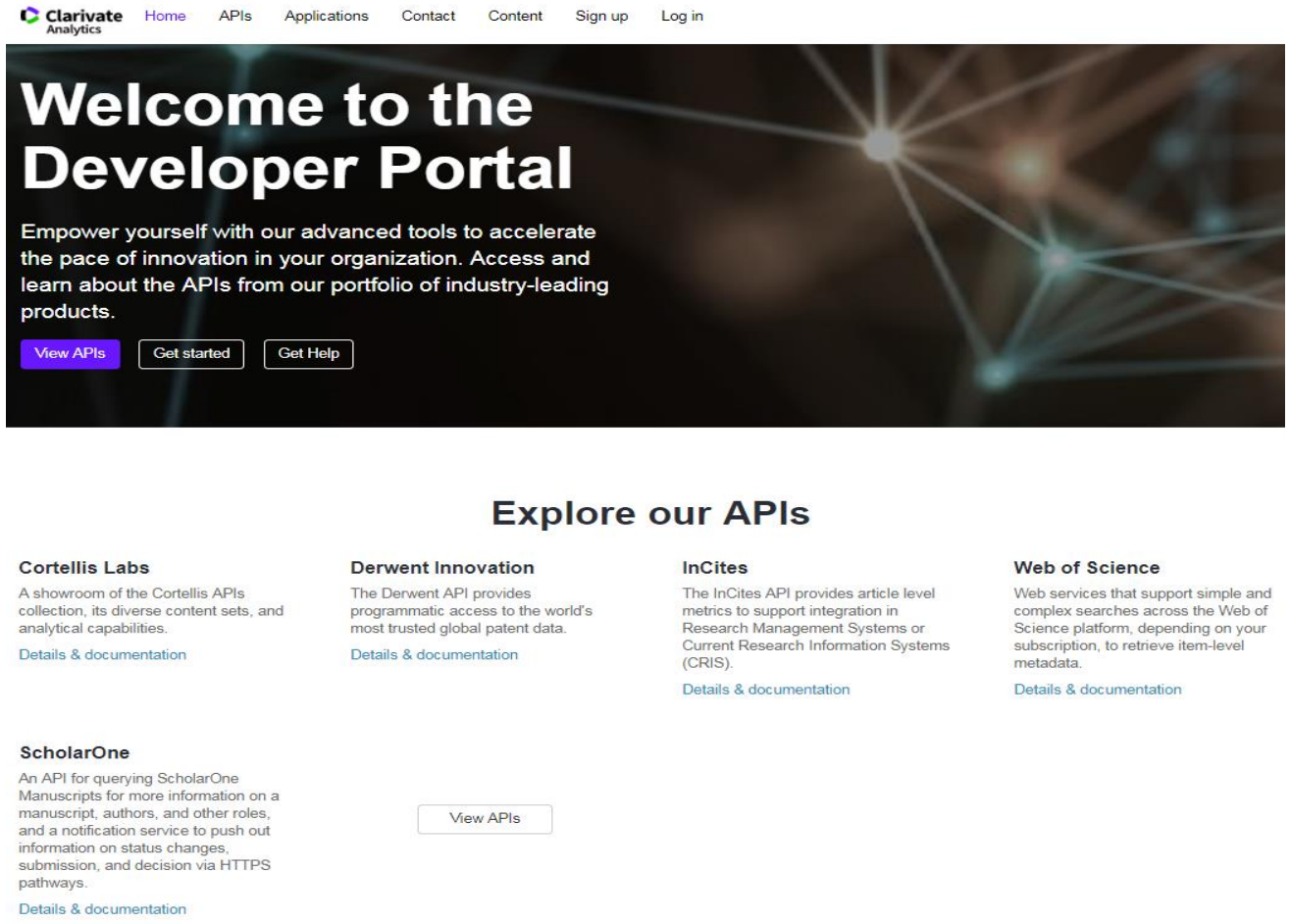
API: Programmatic Access to Subscription Data for Data Integration

Create deeply embedded, lasting engagements with all stakeholders of the research lifecycle by:
1. delivering, documenting, and marketing technically modern and flexible data-as-a-service APIs
2. supporting complementary data integrations across internal (Clarivate) and external applications

There are currently three Web of Science APIs made available to customers of Web of Science:

- Article Match Retrieval (AMR)
- Web of Science API Lite (Lite)
- Web of Science API Expanded (Expanded)

Modernized to provide a better and more consistent experience for developers and development partners who currently work with Web of Science data at a programmatic level.



Web of Science Core Collection XML Dataset

With the Web of Science XML dataset, your faculty can perform large-scale network analytics and big data projects that mash up bibliometric data from the Web of Science with other data types.

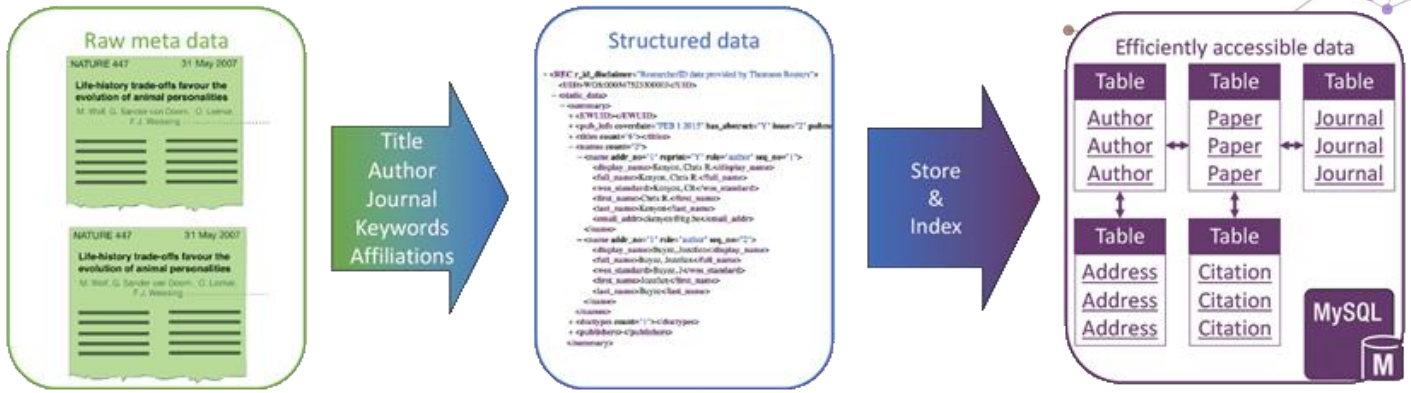
- **Web of Science data have been used globally by thousands of academic researchers, government and funding agencies, and industry analysts to gain insight and derive results in a myriad of scholarly, economic, and sociological pursuits.**

- **The XML dataset gives your researchers an advantage when applying for grants: owning the data as an institutional asset means your faculty don't have to use grant money to fund a data purchase.**

> 70 million
source records

1 Terabyte
of data

Billions
of data points in the research ecosystem, all linked via citations



Clarivate Analytics

Web of Science: On a journey of transformation and innovation to support research

The best high-quality entry point into the world of research

- We have the **high-profile team to make significant further improvements**—a team that truly understands the academic community and scholarly communications.
- Our plan is to engage much more with the academic community and **make Web of Science more dynamic, open, transparent, and user-friendly.**
- We have made significant investments into core aspects of Web of Science and the Web of Science product family—**we are in the middle of an exciting and innovative transformation resulting in even better products.**
- And we are already delivering on our roadmap and innovation to ensure that **Web of Science and related products will always be the best choice for the research community.**

Your partner in supporting information literacy initiatives at all levels

Working together to design educational resources in support of your communities

Our Philosophy:

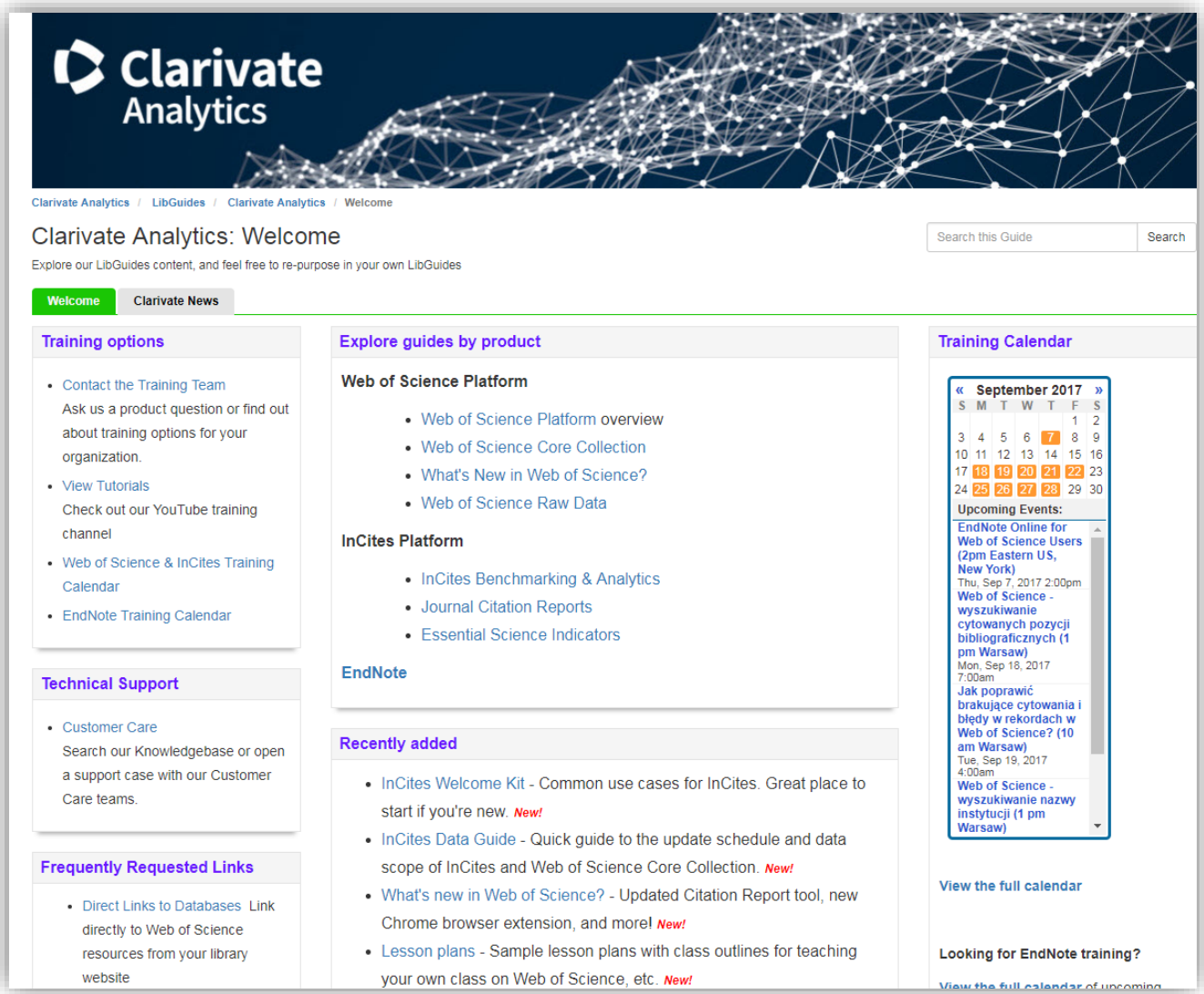
- Form a dedicated relationship -- **partner in the development of a plan of education and instruction** aimed at maximizing value and use of Web of Science Group resources throughout your user communities
- Work **closely with institutions** to determine **the best combination of target audience, content, and format** for educational sessions and trainings

Content is **tailored to meet particular learning objectives for the designated audience** and can consist of fundamental, traditional training – use-case driven training sessions – or educational lectures on desired topics

Format options are varied and flexible as well, with in-person instruction – live web-based sessions – and digital learning options including new capabilities in 2019.

The goal is to **employ information literacy support as a partnership**, where our education and training meet with your own approach.

Stay up to date by following our training website!



http://clarivate.libguides.com/home

Web of Science Group

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A Clarivate Analytics company

Thank you
Questions?

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