



 | A Clarivate Analytics company

Web of Science Discovery Starts Here!

Derya Soğuksu

The world of today: major challenges and opportunities



Data growing
in volume and
complexity

AI / text mining

Difficulty
predicting the
future amidst
constant
change

Free
information/
open science/
open data

Interdisciplinary
data for
research

Doing more
with less

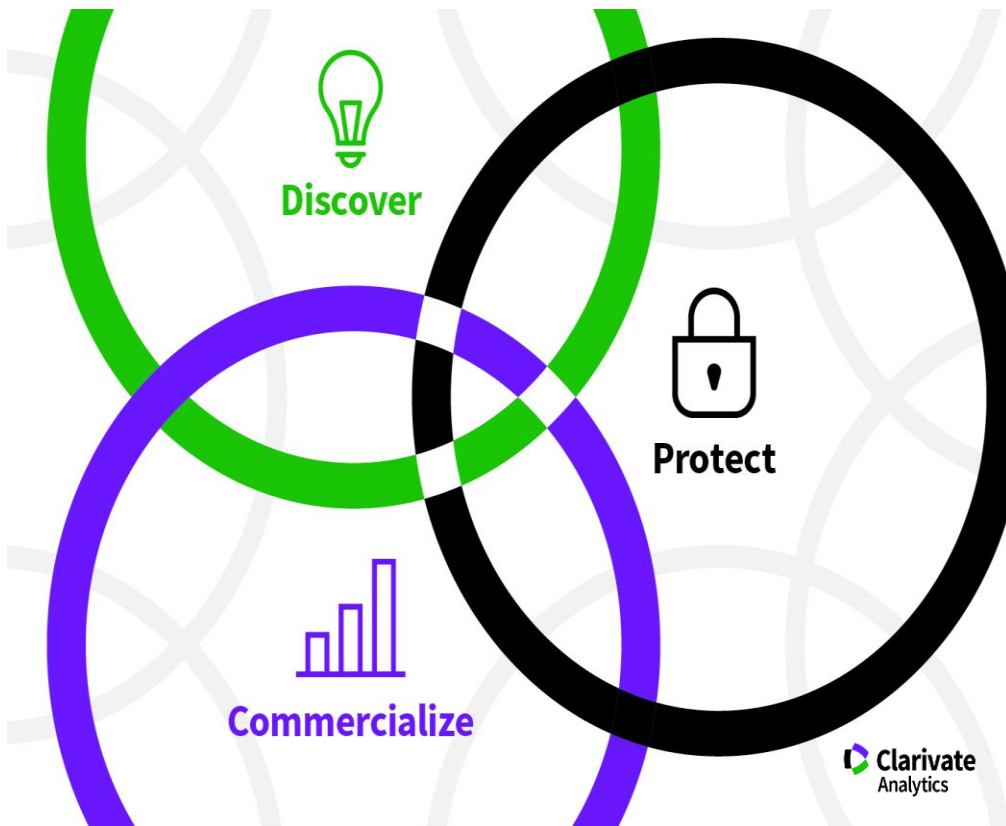
Cyber threats
and data
privacy
compliance

Globalization
&
regionalization

Spotting
emerging
research
trends

Knowing who
to partner
with and how

The Lifecycle of Innovation is at the heart of our business



It surrounds the Discovery, Protection and Commercialization of new ideas

- Scientific and academic research
- Patent intelligence and compliance standards
- Pharmaceutical and biotech intelligence
- Trademark, domain and brand protection

CLARIVATE ANALYTICS

Science Group

- Web of Science Group
- Cortellis

IP Group

- Derwent
- Techstreet
- MarkMonitor
- CompuMark

Web of Science Group

- Web of Science Platform
- Journal Citation Report
- Essential Science Indicators
- EndNote
- Publons
- Kopernio
- Incites
- Converis
- Professional Services
- Scholar One
- Author Connect

AGENDA

1. A bit of **History**
2. Web of Science **Selection process?**
3. **Discover the high-quality research** most relevant to area of interest
4. **Identify leading researchers, institutions and journals** in a field of research?
5. Analyze and identify existing and **potential collaborators**
6. **Identify funders** that have supported scientific projects in a field of research
7. Capture citation activity with **citation reports**
8. Stay up-to date with alerts: **Citation, Search alerts**

History of Web of Science

1964

- Garfield Introduces the first **Science Citation Index**
- A five-volume print edition indexing 613 journals and 1.4 million citations

1966

- The **Science Citation Index** becomes available on magnetic tape

1988

- **Science Citation Index** becomes available on CR-ROM

1997

- Science Citation Index becomes part of a web environment named **Web of Science**

2014

- The Web of Knowledge is redesigned being given its current name **Web of Science Core Collection**

2017

- Clarivate Analytics acquires **Publons**, creator of the leading online global peerreview platform

1965

- Dr. Garfield introduces the **Journal Impact Factor**, a metric to measure the impact of a journal

1975

- Commercial appearance of the Journal Impact Factor on **Journal Citation Reports (JCR)**

1992

- **ISI** is acquired by Thomson, who later merged with Reuters in 2008 to operate as Thomson Reuters

2001

- Web of Science is incorporated to other databases into a platform names **Web of Knowledge**

2016

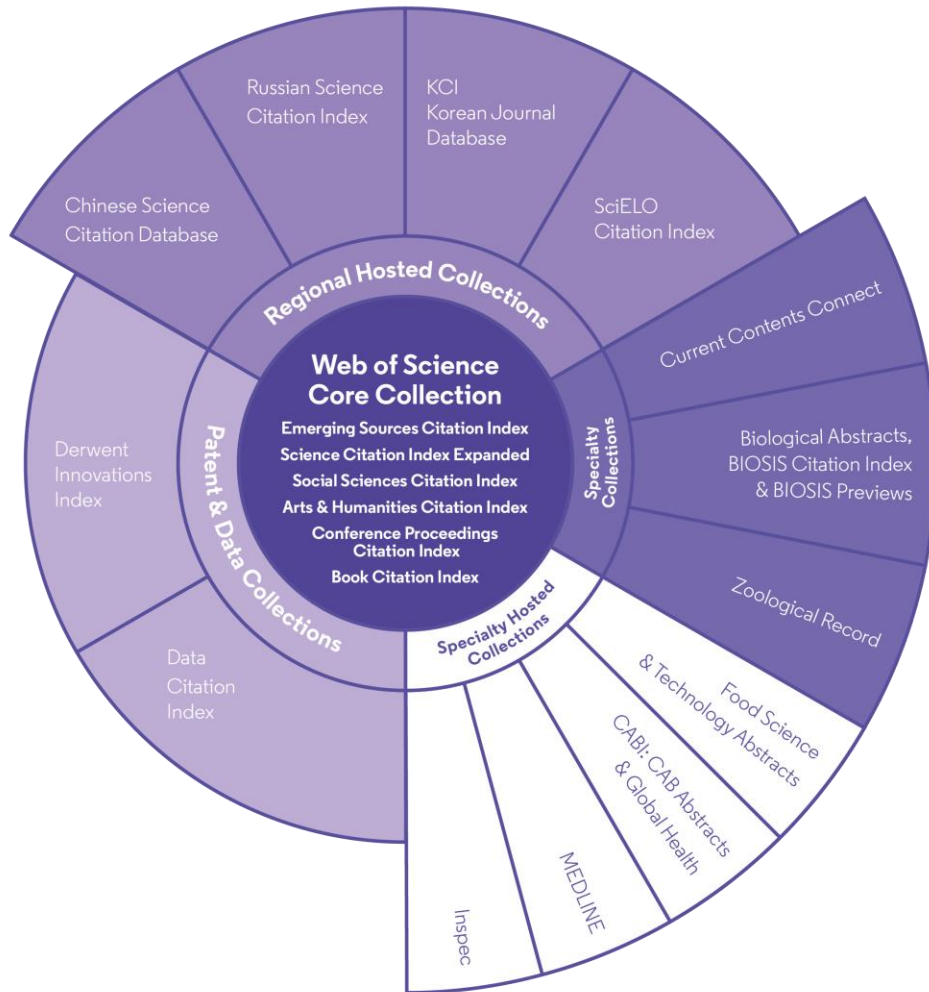
- Thomson Reuters sold the Intellectual Property and Science (IP&S) business and from this separation merged an independent company, **Clarivate Analytics**

2018

- Clarivate Analytics acquired **Kopernio**, an A.I. technology business that revolutionises how researchers access articles across the globe

What powers the Web of Science Group?

Comprehensive content



254

Subject areas

1.7 Billion

Cited references

34,300+

Total journals across the full platform

21,100

Total journals in select *Core Collection*

161 Million

Records – patents, data sets, articles, and proceedings

Backfiles to 1900

With cover-to-cover indexing

100%

Fully indexed cited references, authors, and author affiliations

The Web of Science Core Collection

Science Citation Index Expanded (SCIE)

9,200 of the world's most impactful journals
178 scientific disciplines, 1.18 billion cited references date back from 1900 to present.

Social Sciences Citation Index (SSCI)

3,400 of the world's most impactful journals
58 social sciences disciplines, 122 million cited references date back from 1900 to present.

Arts & Humanities Citation Index (AHCI)

1,800 of the world's most impactful journals
28 arts & humanities discipline, 33 million cited references date back from 1975 to present.

Emerging Sources Citation Index (ESCI)

7,800 of the world's highest-quality journals across 254 disciplines. 74 million cited references date back from 2005 to present.

Book Citation Index (BKCI)

104,500 editorially selected books with 10,000 new books added each year. 53 million cited references date back from 2005 to present.

Conference Proceedings Citation Index (CPCI)

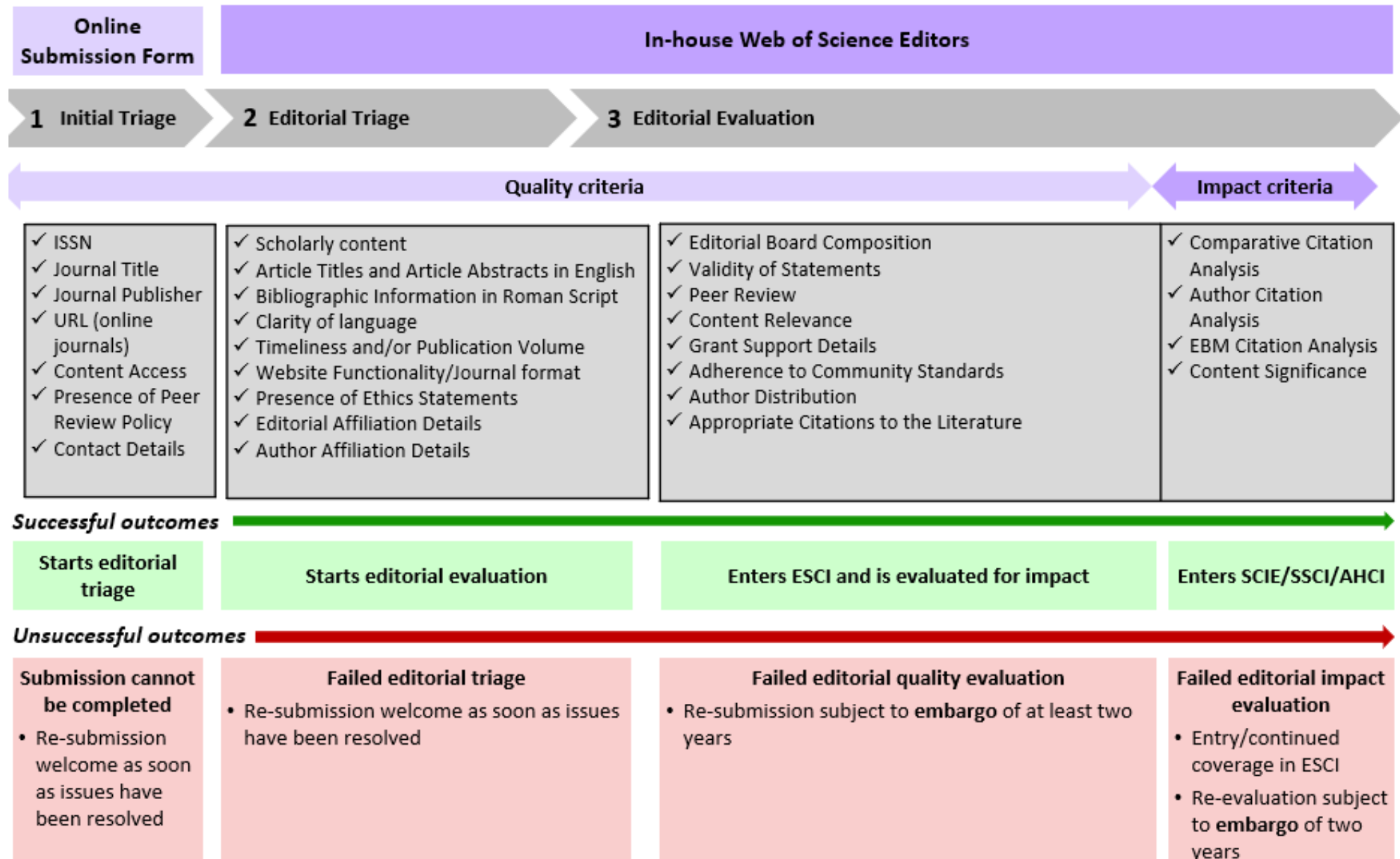
205,000 conference proceedings, 70 million cited references date back from 1990 to present.

Selection Process

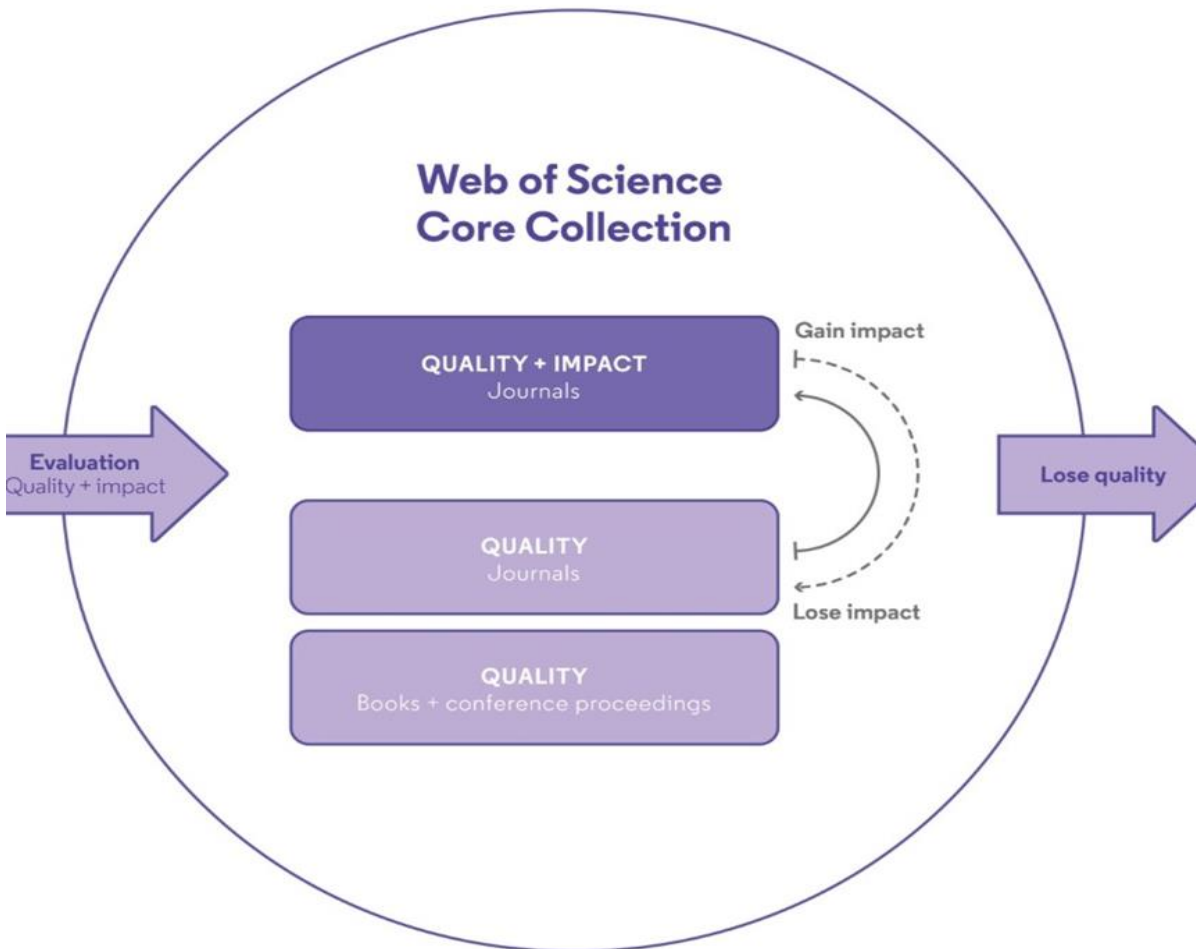
Our process of curation is unique

- We use a single set of 28 criteria to evaluate journals:
 - 24 quality criteria designed to select for editorial rigour and best practice at the journal level
 - 4 impact criteria designed to select the most influential journals in their respective fields using citation activity as a primary indicator of impact

Editorial Workflow



Core coverage is not static !



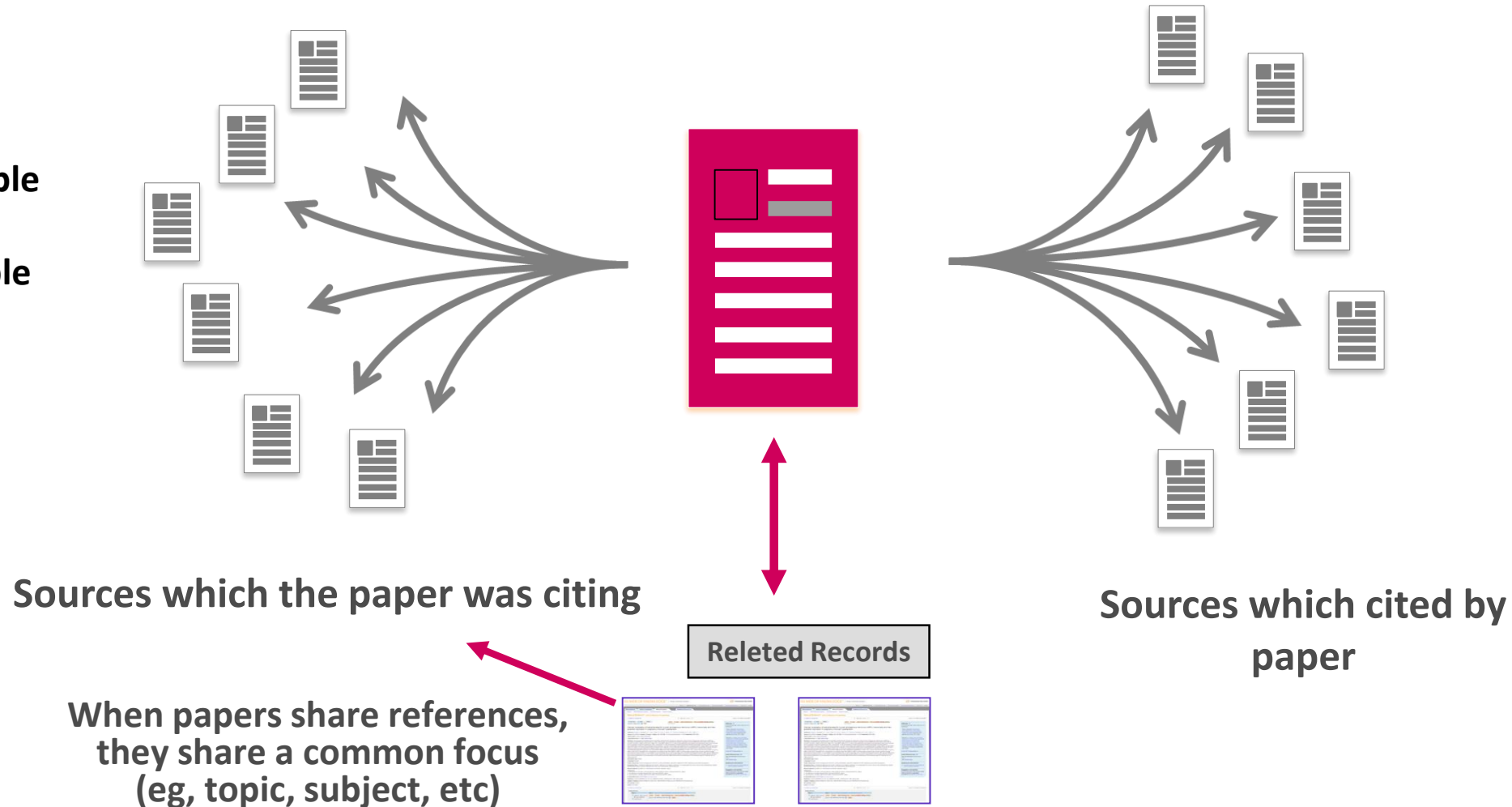
- ESCI journals that gain impact move to SCIE, SSCI or AHCI
- SCIE, SSCI and AHCI journals that decrease in impact move to ESCI

Dr Eugene Garfield's "Association of Ideas Index" Citation linkages help us find related materials efficiently

Look back through Cited References on how this idea was developed

Look forward through Citations to see how this paper lead to new ideas

Searchable & Navigable





**Impact Factor
Quartiles
H-Index
Top Papers**

Highest Impact Factor in 2 different categories

223.679

ONCOLOGY

**CA-A CANCER JOURNAL
FOR CLINICIANS**

10.764

PHYSICS, NUCLEAR

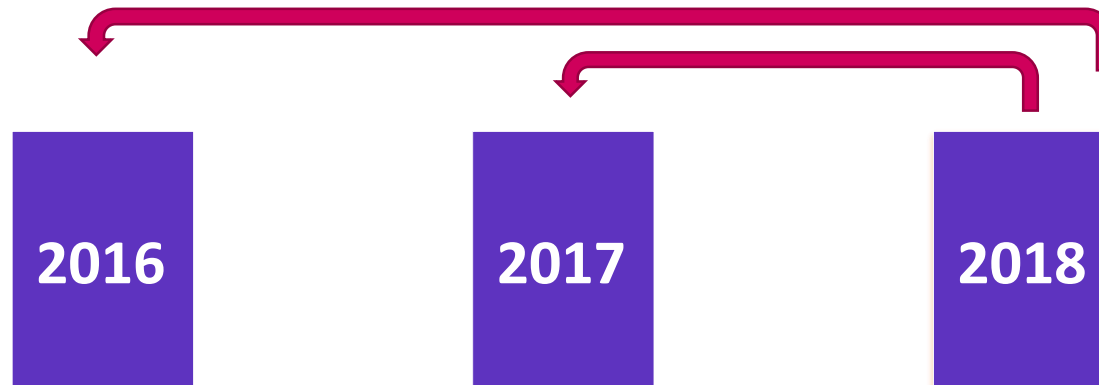
**PROGRESS IN PARTICLE
AND NUCLEAR PHYSICS**

Journal Citation Reports

The impact factor is a measure of the frequency with which the average article in a journal has been cited in a particular year. The JCR also lists journals and their impact factors and ranking in the context of their specific field(s).

Source: Science Citation Index-Expanded (SCIE) and the Social Sciences Citation Index (SSCI)

$$\text{IF}_{2018} = \frac{\text{Citations in 2018 to items published in 2016 and 2017}}{\text{2016 and 2017 Number of Citable items (Articles \& reviews)}}$$



The Impact Factor

Journal Impact Factor Calculation

$$\text{2018 Journal Impact Factor} = \frac{942}{80} = 11.775$$

How is Journal Impact Factor Calculated?

$$\text{JIF} = \frac{\text{Citations in 2018 to items published in 2016 (656) + 2017 (286)}}{\text{Number of citable items in 2016 (40) + 2017 (40)}} = \frac{942}{80} <$$

Journal Impact Factor contributing items

[Show all](#)

[Citable items in 2017 and 2016 \(80\)](#)

[Citations in 2018 \(942\)](#)

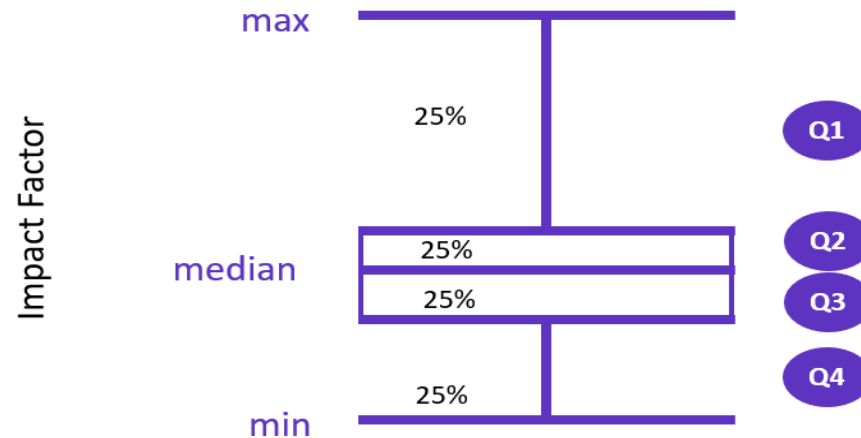
TITLE	CITATIONS COUNTED TOWARDS JIF
Measuring Economic Policy Uncertainty By: Baker, Scott R.; Bloom, Nicholas; Davis, Steven J. Volume: 131 Page: 1593-1636 Accession number: WOS:000388576700001 Document Type: Article	205

Quartiles

PLANT FOODS FOR HUMAN NUTRITION

JCR Year	NUTRITION & DIETETICS			PLANT SCIENCES			CHEMISTRY, APPLIED			FOOD SCIENCE & TECHNOLOGY		
	Rank	Quartile	JIF Percentile	Rank	Quartile	JIF Percentile	Rank	Quartile	JIF Percentile	Rank	Quartile	JIF Percentile
2017	50/83	Q3	40.361	60/223	Q2	73.318	24/72	Q2	67.361	39/133	Q2	71.053
2016	44/81	Q3	46.296	58/212	Q2	72.877	23/72	Q2	68.750	31/130	Q1	76.538
2015	42/80	Q3	48.125	59/209	Q2	72.010	22/72	Q2	70.139	31/125	Q1	75.600
2014	50/77	Q3	35.714	64/204	Q2	68.873	21/72	Q2	71.528	35/123	Q2	71.951
2013	41/79	Q3	48.734	55/199	Q2	72.613	16/71	Q1	78.169	27/123	Q1	78.455
2012	32/76	Q2	58.553	54/197	Q2	72.843	18/71	Q2	75.352	26/124	Q1	79.435
2011	28/74	Q2	62.838	51/190	Q2	73.421	15/71	Q1	79.577	19/128	Q1	85.547
2010	28/70	Q2	60.714	38/188	Q1	80.053	14/70	Q1	80.714	19/128	Q1	85.547
2009	30/66	Q2	55.303	52/173	Q2	70.231	20/64	Q2	69.531	24/118	Q1	80.085
2008	32/59	Q3	46.610	53/156	Q2	66.346	21/61	Q2	66.393	29/107	Q2	73.364

A journal could have multiple subject areas and different quartiles



H-index

Number of papers, “h”, that have been cited “h” times



23.3 cites/paper
H-indeks: 13



14.5 cites/paper
H-indeks: 7

How “good” is this? What is the context?

Additional metrics are needed to understand research performance.



9.8 cites/paper
H-indeks: 7





4.2 cites/paper
H-indeks: 3

Citation rates vary among fields. A good or average h-index for a researcher in Mathematics will be very different from an average h-index for a Biochemistry researcher.



TOP Papers

- **Highly Cited Papers** - papers that perform in the top 1% based on the number of citations received when compared to other papers published in the same field in the same year.

 As of March/April 2019, this **highly cited paper** received enough citations to place it in the top 1% of the academic field of Clinical Medicine based on a highly cited threshold for the field and publication year. 

Data from *Essential Science Indicators*

- **Hot Papers** - are papers published in the past two years that received a number of citations in the most recent two-month period that places them in the top 0.1% of papers in the same field.

 This **hot paper** was published in the past two years and received enough citations in March/April 2019 to place it in the top 0.1% of papers in the academic field of Molecular Biology & Genetics. 

Data from *Essential Science Indicators*

The image shows a close-up, top-down view of an open notebook. The pages are white with faint, horizontal blue or grey lines. The notebook is open, showing the central binding area where the pages meet. The pages are slightly curved, and the lighting is soft, creating a clean and organized appearance. The word "Publons" is centered on one of the pages.

Publons

Publons

Peer review is at the heart of research

We believe there are four keys to bringing trust, transparency and efficiency to peer review

- Turning peer review into a rewarding activity
- Expand and improve the pool of available reviewers
- Provide tools to improve the efficiency of the review process
- All of this needs to happen at scale

Two simple ways to add reviews

- Reviews added by Publons users
- Publisher integrations

Publishers: Partners

SPRINGER NATURE

WILEY

Taylor & Francis Group
an informa business

AMERICAN SOCIETY FOR MICROBIOLOGY

BMJ Open

MDPI
Multidisciplinary Digital Publishing Institute

IOP
Publishing

Wolters Kluwer

THE ROYAL SOCIETY

SAGE

OXFORD
UNIVERSITY PRESS

Thieme

ASABE

AMERICAN SPEECH-LANGUAGE HEARING ASSOCIATION

ASTM INTERNATIONAL
Helping our world work better

ASNR
American Society of Neuroradiology



BIR
The British Institute of Radiology

CAMBRIDGE
UNIVERSITY PRESS

eLIFE

Emerald

fsg

(GIGA)ⁿ
SCIENCE

IBRASPP

IA HEALTHCARE LIMITED

МЕДИА СФЕРА

PanAfrican
Medical Journal

PeerJ



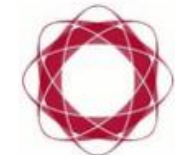
Royal College of Surgeons
ADVANCING SURGICAL CARE

A E E T

ROYAL SOCIETY OF CHEMISTRY

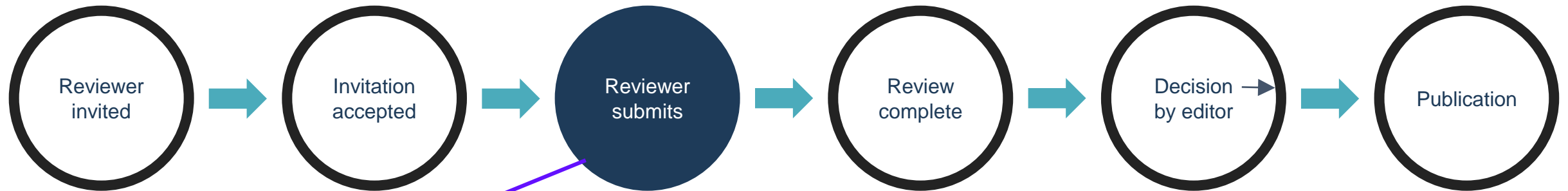


CHEST



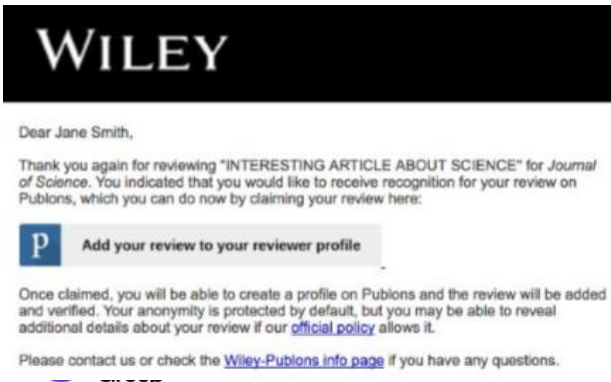
Simple to maintain a verified record of your peer reviews

Automatically add reviews to your profile thanks to our integrations with thousands of scholarly journals.



Add this review to Publons? Yes No

Publons opt-in



publons
Create your profile

Set a password below to create your profile. Your review record will be added as "Reviewed for Journal of Clinical Medicine".

Full Name

Email

Password

CREATE PROFILE

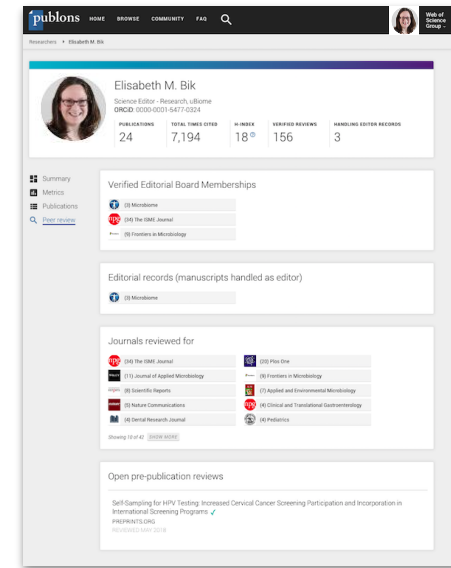
I AM ALREADY REGISTERED

By registering you are agreeing to our terms of service and privacy policy.

Publons checks for existing account. If none, invites reviewer to sign up



Publons automatically retrieves and transfers verified review details.

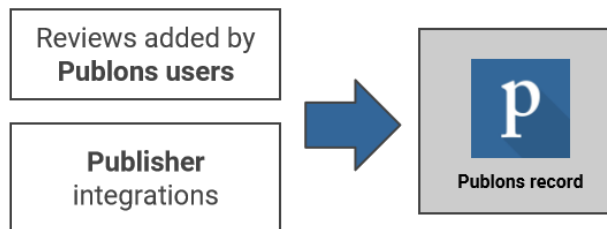


Profile updated with verified review record (No sensitive information is displayed)

Add reviews and editorial records for non-partnered journals

- Email review receipts ('Thank you for reviewing emails) to reviews@publons.com
- Manually enter review details from your private dashboard.

Two simple ways to add reviews



The screenshot shows the Publons website interface. At the top, the 'publons' logo is on the left and 'Clarivate Analytics' is on the right. The main heading is 'How to find and add old reviews'. Below this, a paragraph states: 'The quickest way to add past reviews to your profile is to forward 'receipts' for those reviews to reviews@publons.com.' To the right of this text is an illustration of a diverse group of people. Below the paragraph, it says: 'Review receipts are emails from an editor on receipt of your review, *not* invitations to review.'

Underneath, a section titled 'Search your inbox for these receipts using the steps below' contains a three-step numbered list:

1. Go to your inbox and search these common terms:
"Thank you for reviewing (journal name)"
"Your review for (journal name)"
"Review received (journal name)"
2. Copy and paste the text from any receipts you find into your search box to look for more receipts that use the same terms.
3. Forward each message you find to reviews@publons.com and you're done! We'll verify your reviews with the journal and add them to your profile.

At the bottom of the page, a footer note reads: 'Forward your review receipts to us as often as you like. Check our FAQs or email us at info@publons.com for more information.'

Easy to add publications to your profile

- Import publications directly from Web of Science via your Private Dashboard.
- Import publications from ORCID, DOI/title search, or by file upload
- Validate which publications are yours and add them to your profile.

The image displays two screenshots of the Publons Private Dashboard. The left screenshot shows the 'Import Publications' page for a user named Tiago Barros. It features a sidebar with navigation options like 'Dashboard summary', 'Publications', 'Peer reviews', 'Editor records', 'Awards', 'Activity', 'Community', and 'Settings'. The main content area has four import options: 'Import from Web of Science', 'Import from ORCID', 'Search and import by DOI or title', and 'Import by file upload (RIS, CSV, or BIBTEX)'. The right screenshot shows the 'Confirm Publications' page for a user named Andrew R. H. Preston. It includes a sidebar with similar navigation options. The main content area has a 'HIDE FILTERS' button and a filter section with three columns: 'Years Published' (with checkboxes for 1987, 1988, 1989, 1990, 1991, 1992, 1993), 'Institutions' (with a dropdown for Boston Univ), and 'Author Names' (with checkboxes for PRESTON, AR, Preston, A, Preston, AR). Below the filters, it shows 'Results: Selected 0 of 11 publications' and an 'IMPORT SELECTED PUBLICATIONS' button. A table of results is partially visible at the bottom.

SELECT	DATE	TITLE	JOURNAL/CONFERENCE
<input type="checkbox"/>	1992	DISLOCATION CONTRAST IN LARGE-ANGLE C...	PHILOSOPHICAL MAGAZINE A-PHYSICS O...
<input type="checkbox"/>	1988	POLARITY DETERMINATION IN GAAS BY MAT...	EUREM 88, VOLS 1-3


Publons Researcher Profiles
Show more of your research impact!

Modern profile

publons HOME BROWSE COMMUNITY FAQ

Web of Science Group

Researchers • Elisabeth M. Bik

 Elisabeth M. Bik
Science Editor - Research, uBiome
ORCID: 0000-0001-5477-0324

PUBLICATIONS	TOTAL TIMES CITED	H-INDEX	VERIFIED REVIEWS	HANDLING EDITOR RECORDS
24	7,194	18 [®]	156	3

[Summary](#)
[Metrics](#)
[Publications](#)
[Peer review](#)

Research Fields

MEDICAL BACTERIOLOGY

Bio

Elisabeth Bik is a Science Editor at uBiome, a company that develops microbiome sequencing analysis kits for consumers and clinicians. She received her PhD at Utrecht University in The Netherlands and worked at the Dutch National Institute for Health and the St. Antonius Hospital in Nieuwegein. In 2001, she joined Stanford University's School of Medicine, where she worked on the characterization of the human microbiome in thousands of oral, gastric, and intestinal samples. In addition, she analyzed the microbiota of marine mammals, in particular that of dolphins and sea lions. When she is not in the lab, she can be found working on her blog www.microbiomedigest.com, an almost daily compilation of scientific papers in the rapidly growing microbiome field, or on Twitter as @MicrobiomDigest. She is also interested in the detection of plagiarism and image duplications and manipulations in the published biomedical literature, and currently peer reviews 30 to 40 manuscripts per year.

[SHOW MORE](#)

Institutions

Science Editor - Research, uBiome - Present
Research Associate - Department of Medicine, Stanford University

Affiliations

Editorial Board Member - ISME Journal
Editorial Board Member - Frontiers in Microbiology
Associate Editor - Microbiome Journal

Awards

Top Reviewers for Multidisciplinary - September 2017
 Top Reviewers: Immunology and Microbiology - September 2016

Most cited publications

	TIMES CITED
Diversity of the Human Intestinal Microbial Flora SCIENCE PUBLISHED JUN 2005	3629
Development of the Human Infant Intestinal Microbiota PLOS BIOLOGY PUBLISHED JUN 2007	1421
Molecular analysis of the bacterial microbiota in the human stomach PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES PUBLISHED JAN 2006	499
Dissecting biological "dark matter" with single-cell genetic analysis of rare and uncultivated TM7 microbes from the human mouth PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES PUBLISHED JUL 2007	354
Microbial Prevalence, Diversity and Abundance in Amniotic Fluid During Preterm Labor: A Molecular and Culture-Based Investigation PLOS ONE PUBLISHED AUG 2008	353

[GO TO PUBLICATIONS](#)

Peer review summary

JOURNALS REVIEWED FOR

(14) The ISME Journal	(20) Plos One
(11) Journal of Applied Microbiology	(9) Frontiers in Microbiology
(8) Scientific Reports	(7) Applied and Environmental Microbiology
(5) Nature Communications	(4) Clinical and Translational Gastroenterology
(4) Dental Research Journal	(4) Pediatrics

Showing 10 of 42

[GO TO PEER REVIEW](#)

Summary of key publication and peer review metrics

Navigate to detailed metrics, publication, or peer review and journal editing summaries

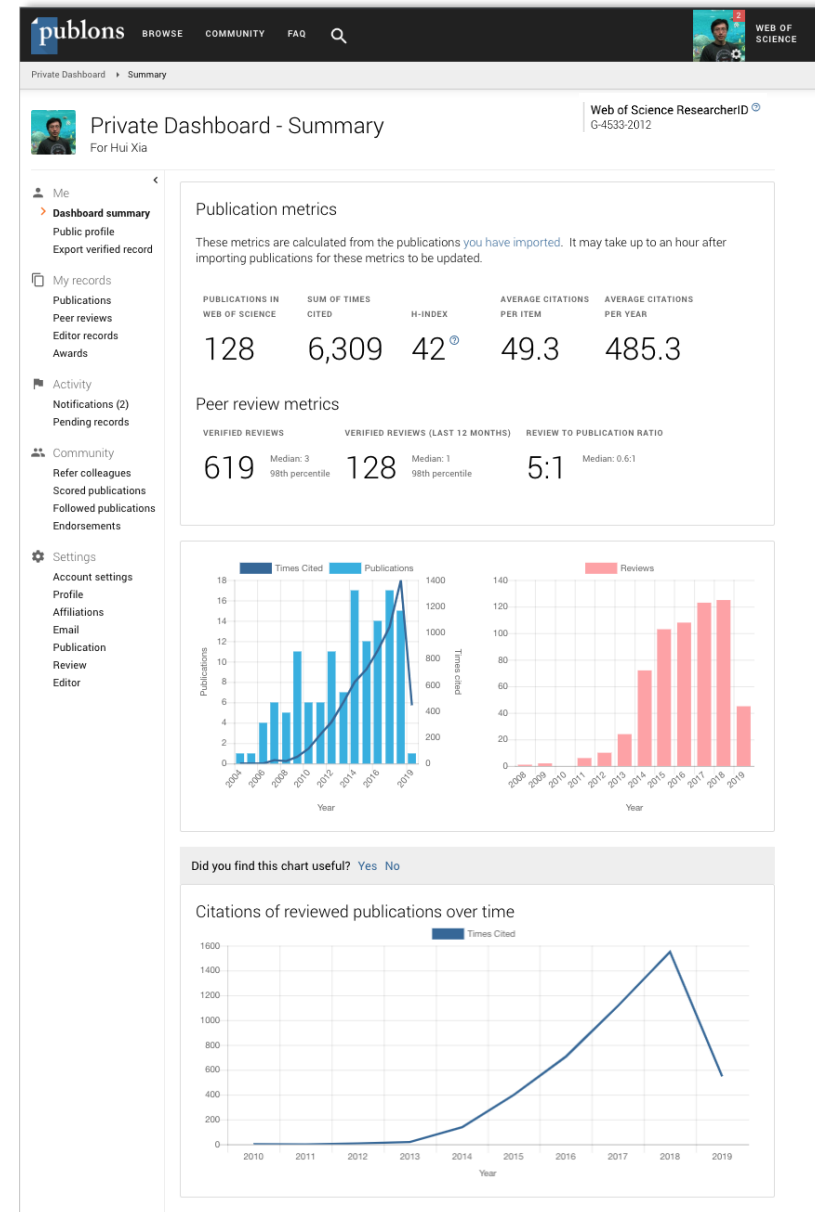
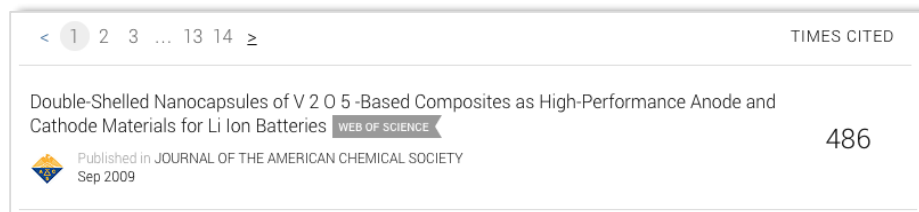
Research fields, bio, institutional affiliations, and highly cited and peer review awards

Most cited publications and citation counts

Journals reviewed for and count of verified reviews performed

With a more complete suite of metrics

- *h*-index
- Avg. citations per article
- Avg. citations per year
- Total citations over time
- Citation counts in per-paper context and aggregate.
- Peer review metrics
- Editorial Board Memberships
- Citations of papers you reviewed



The Publons Academy

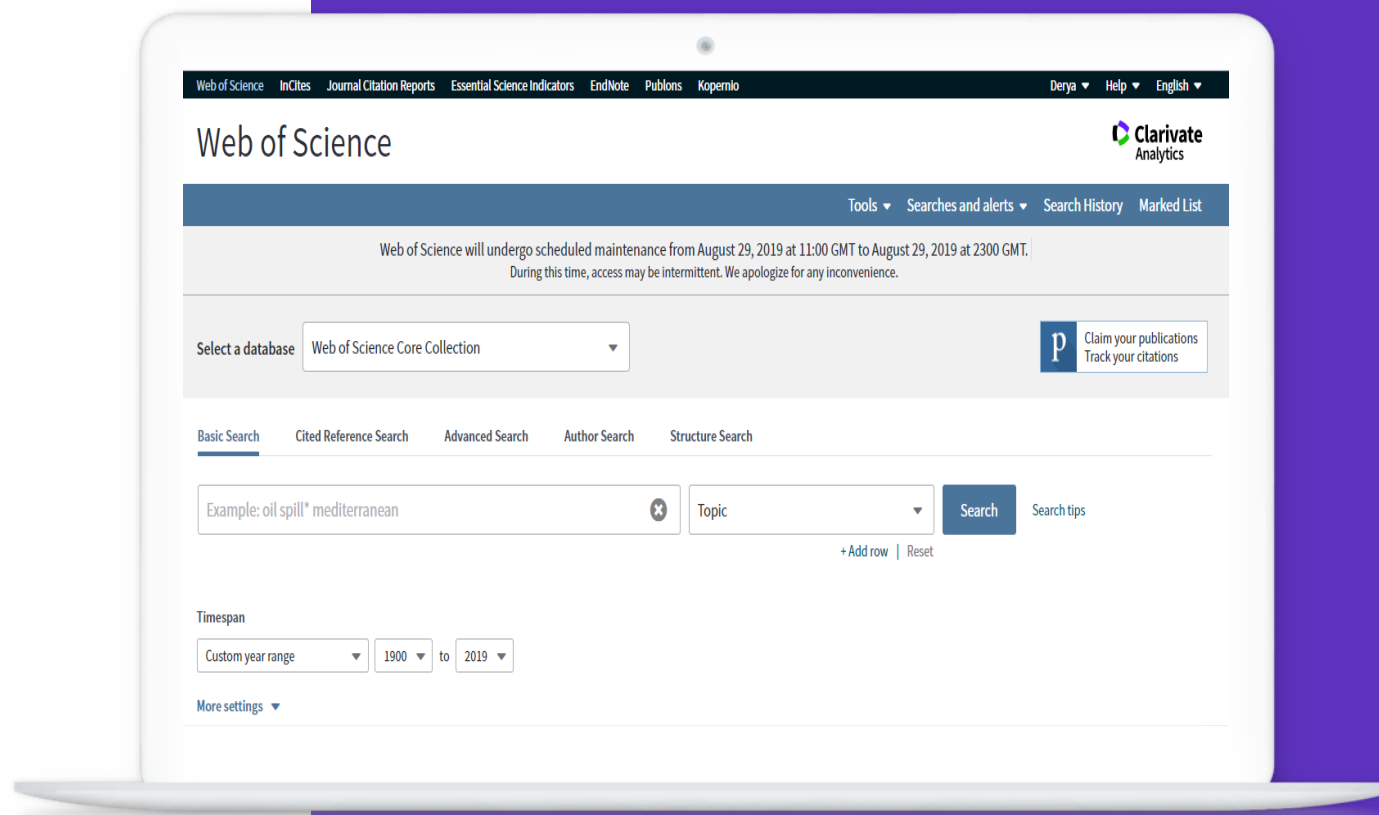
An online, practical peer review training course.



Web of Science

Trust the difference

Live Product Demo



Screen caption



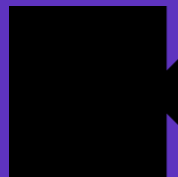
**Discussions
Questions & Answers**

Web of Science Essential Links



Master Journal List

<http://mjl.clarivate.com>



Instructional videos

<https://www.youtube.com/user/WoSTraining>



Training Resources

<http://clarivate.libguides.com/webofscienceplatform>



Social Media

- [Facebook](#)
- [Twitter](#)
- [LinkedIn](#)
- [Instagram](#)



 | A Clarivate Analytics company

Thank you

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webofsciencegroup.com