מערך הספריות
והמידע
אוניברסיטת בר־אילן

ביבליומטרי-מה?!

ביבליומטריקה, אלטמטריקה, מדדי השפעה,
תפוקה מחקרית ואיך להציג impact מחקרי

ד"ר יהודית שקולניצקי ליברמן

אוניברסיטת
בר־אילן
Bar-Ilan University

מהי השפעה (impact) מחקרית?

- תרבותית
- כלכלית
- סביבתית
- בריאות ורווחה
- מדיניות
- מדעית או אקדמית
- חברתית
- טכנולוגית
- חינוכית

על פי: https://libguides.ucd.ie/bibliometrics/impact

מהם מדדי השפעה?

מדדי השפעה מנסים לכמת את ההשפעה שיש לתפוקות (Outputs) מדעיות/מחקריות/יצירתיות.

- מאמרים בכתבי עת
- ספרים / פרקי ספרים
- Conference papers
- מערכי נתונים
- חומרים חינוכיים
- ראיונות
- פעילויות Outreach
- פטנטים
- הצגות, תערוכות
- Policy papers
- מצגות, הרצאות, פוסטרים
- פרוטוקולים
- תוכנה, קוד

על פי: https://ucsd.libguides.com/impact/impact-metrics

מהי ביבליומטריה?

על פי ה- **Oxford English Dictionary (OED)**:

- ניתוח כמותי של פרסומים (ספרים, מאמרים או פרסומים אחרים).

מדוע הביבליומטריה חשובה?

1. קבלת החלטות אישיות ומוסדיות
2. פיתוח אוספים של כתבי עת
3. מימון מחקרים
4. קידום וקביעות (Tenure)
5. סטטוס מומחיות בתחום
6. מציאת חוקרים אחרים בתחום

על פי:
https://libguides.bodleian.ox.ac.uk/bibliometrics
https://libguides.nus.edu.sg/researchimpact/home

רמות המדידה של השפעה מחקרית

- מדדים ברמת המאמר (Article-level metrics)
- מדדים ברמת המחבר (Author-level metrics)
- מדדים ברמת כתב העת (Journal-level metrics)

על פי:
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https://libguides.nus.edu.sg/researchimpact/home

מדדים ברמת המאמר (Article-level metrics)

גישה מסורתית - ספירת ציטוטים

- ספירת ציטוטים (Citation Counts)
- Field Weighted Citation Impact

גישה חלופית (אלטמטריקה)

ספירת ציטוטים (Citation Counts)

מתבססת על מספר הפעמים שמאמר מסוים מצוטט על ידי עבודות אחרות.

מגבלות ספירת הציטוטים:

- מודדת פופולריות לא איכות
- מעדיפה מחקר מיינסטרימי
- מושפעת מכיסוי מאגר המידע

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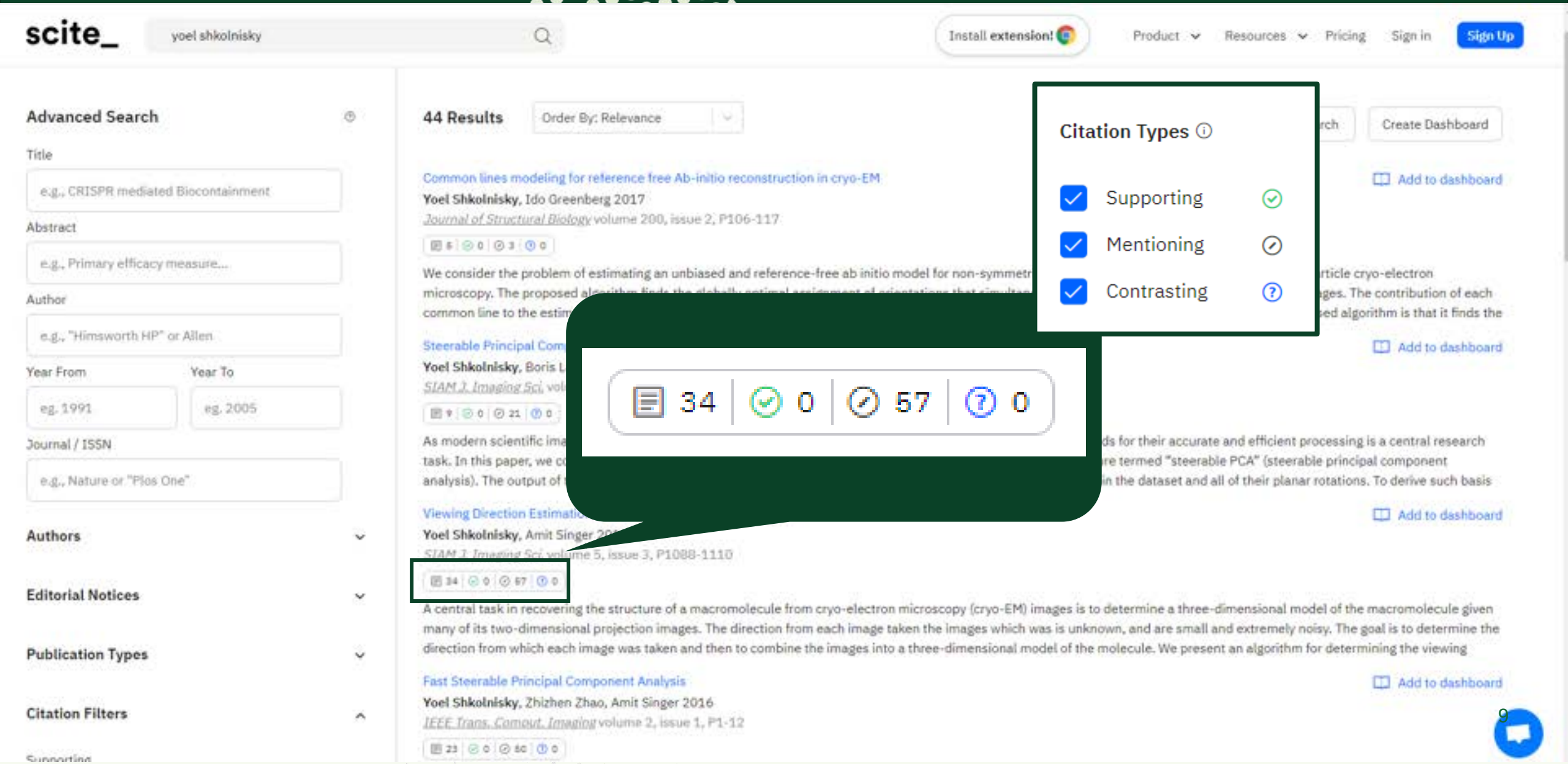
https://libguides.nus.edu.sg/researchimpact/article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Title
e.g., CRISPR mediated Biocontainment
Abstract
e.g., Primary efficacy measure...
Author
e.g., "Himsworth HP" or Allen
Year From
eg. 1991
Year To
eg. 2005
Journal / ISSN
e.g., Nature or "Plos One"
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Common lines modeling for reference free Ab-initio reconstruction in cryo-EM
Yoel Shkolnisky, Ido Greenberg 2017
Journal of Structural Biology volume 200, issue 2, P106-117
Add to dashboard
Steerable Principal Com
Yoel Shkolnisky, Boris L
SIAM J. Imaging Sci. vol
Add to dashboard
Viewing Direction Estimatio
Yoel Shkolnisky, Amit Singer 20
SIAM J. Imaging Sci. volume 5, issue 3, P1088-1110
Add to dashboard
A central task in recovering the structure of a macromolecule from cryo-electron microscopy (cryo-EM) images is to determine a three-dimensional model of the macromolecule given many of its two-dimensional projection images. The direction from each image taken the images which was is unknown, and are small and extremely noisy. The goal is to determine the direction from which each image was taken and then to combine the images into a three-dimensional model of the molecule. We present an algorithm for determining the viewing
Fast Steerable Principal Component Analysis
Yoel Shkolnisky, Zhizhen Zhao, Amit Singer 2016
IEEE Trans. Comput. Imaging volume 2, issue 1, P1-12
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Citation Types
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34
0
57
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Field Weighted Citation Impact

כמה מצוטט פרסום בהשוואה לפרסומים דומים

FWCI הוא מדד שניתן לראות ב- Scopus/SciVal

$$\frac{\textit{total citations received from publication plus 3 years after publication}}{\textit{average number of citations received by other similar publications}}$$

על פי:
https://libguides.nus.edu.sg/researchimpact/article

Field Weighted Citation Impact

פרסומים דומים מוגדרים באופן הבא:

- מתפרסמים באותה שנת פרסום
- משתייכים לאותו סוג פרסום
- משתייכים לאותו שדה נושאי בהתבסס על Scopus' ASJC

כך מפרשים את ערך ה- FWCI:

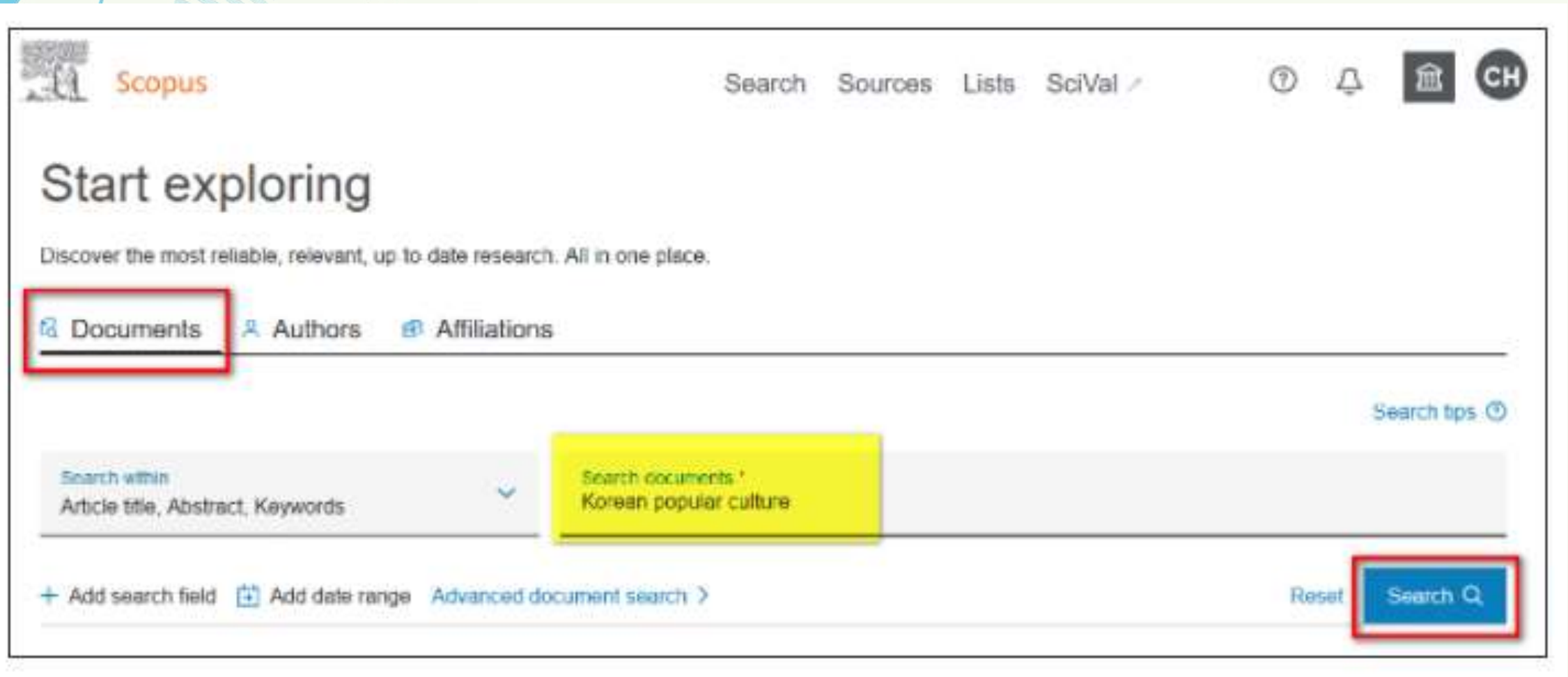
- FWCI=1 - לפרסום יש השפעה שווה לפרסומים דומים אחרים
- FWCI>1 - הפרסום צוטט יותר מפרסומים דומים
- FWCI<1 הפרסום צוטט פחות מפרסומים דומים

על פי:
https://libguides.nus.edu.sg/researchimpact/article

מקורות למדדים ברמת המאמר

1. Scopus
2. Web of Science
3. Google Scholar
4. LENS.ORG
   Dimensions

Scopus - ספירת ציטוטים ו-FWCI

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1
Hybridity and the rise of Korean popular culture in Asia
Shim, D.
2006
Media, Culture and Society 28(1), pp. 25-44+143
264
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2
The local construction of a global language: Ideologies of English in South Korea (Book)
Park, J.S.-Y.
2009
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Hybridity and the rise of Korean popular culture in Asia
Shim D.
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Metrics
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306 Citations in Scopus
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Last updated on: 18 June 2021
17 2020
176 2012-2021
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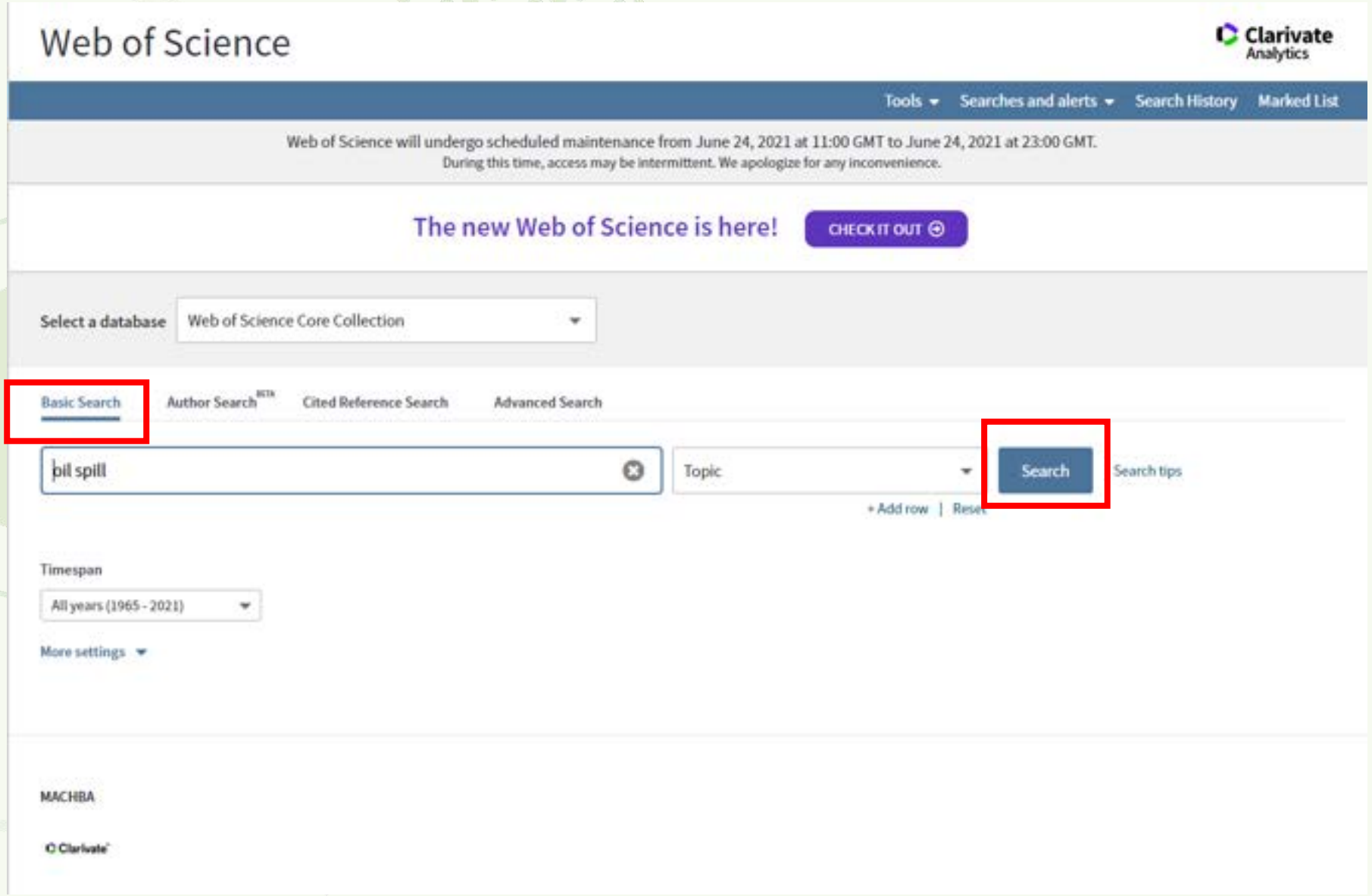
Web of Science



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Clarivate Analytics

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1. **SMOTE: Synthetic minority over-sampling technique**
By: Chawla, NV; Bowyer, KW; Hall, LO; et al.
JOURNAL OF ARTIFICIAL INTELLIGENCE RESEARCH **Volume: 16 Pages: 321-357 Published: 2002**
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Times Cited: 6,748
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Usage Count

2. **Microbial production of surfactants and their commercial potential**
By: Desai, JD; Banat, IM
MICROBIOLOGY AND MOLECULAR BIOLOGY REVIEWS **Volume: 61 Issue: 1 Pages: 47 -& Published: MAR 1997**
Check access to full-text | Full Text from Publisher | View Abstract

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(from Web of Science Core Collection)
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SMOTE: Synthetic minority over-sampling technique

By: Chawla, NV (Chawla, NV); Bowyer, KW (Bowyer, KW); Hall, LO (Hall, LO); Kegelmeyer, WP (Kegelmeyer, WP)
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JOURNAL OF ARTIFICIAL INTELLIGENCE RESEARCH
Volume: 16 **Pages:** 321-357
DOI: 10.1613/jair.953
Published: 2002
Document Type: Article
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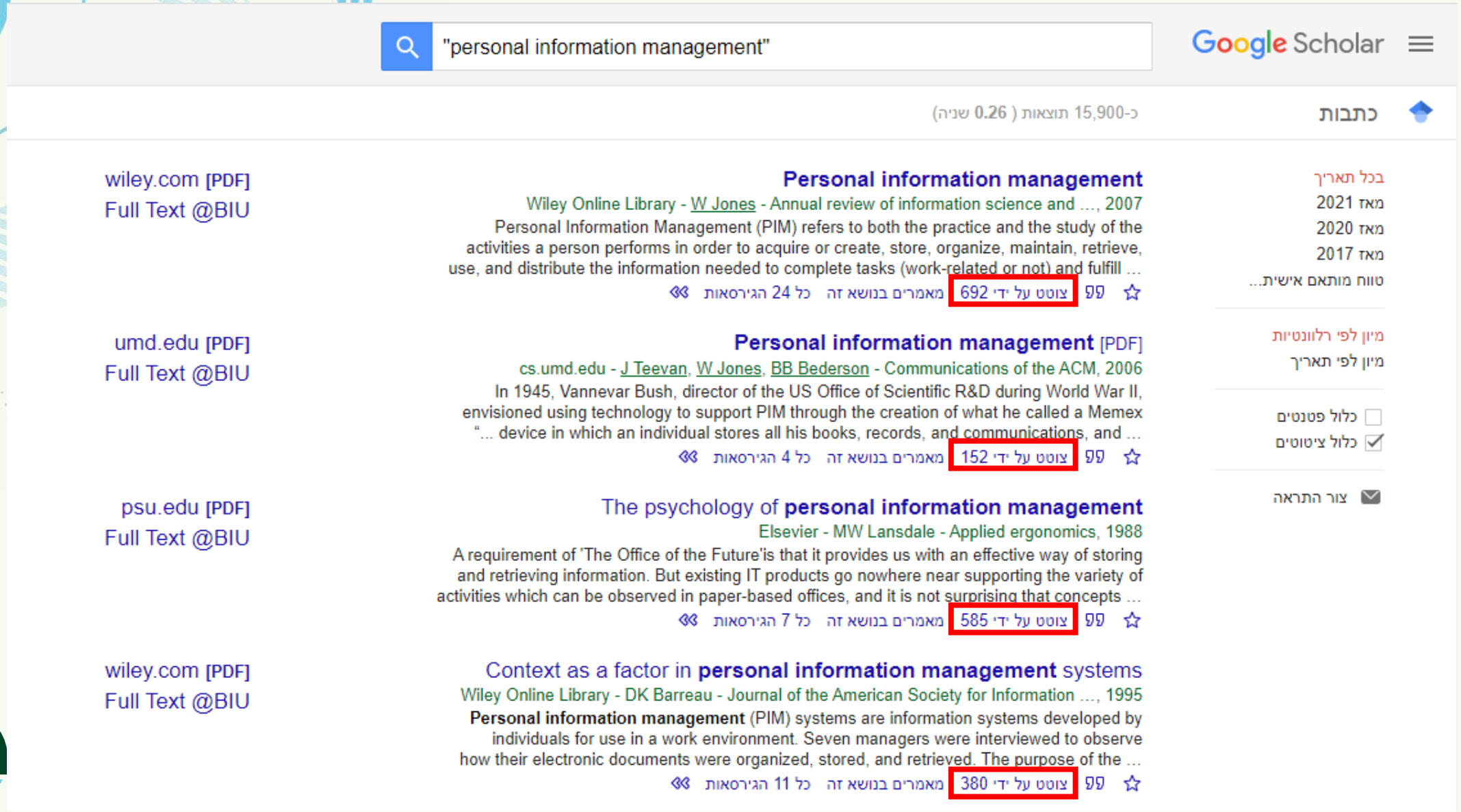
Abstract

An approach to the construction of classifiers from imbalanced datasets is described. A dataset is imbalanced if the classification categories are not approximately equally represented. Often real-world data sets are predominately composed of normal examples with only a small percentage of abnormal or interesting examples. It is also the case that the cost of misclassifying an abnormal (interesting) example as a normal example is often much higher than the cost of the reverse error. Under-sampling of the majority (normal) class has been proposed as a good means of increasing the sensitvity of a classier to the minority class. This paper shows that a combination of our method of over-sampling the minority (abnormal) class and under-sampling the majority (normal) class can achieve better classifier performance (in ROC space) than only under-sampling the majority class. This paper also shows that a combination of our method of over-sampling the minority class and under-sampling the majority class can achieve better classifier performance (in ROC space) than varying the loss ratios in Ripper or class priors in Naive Bayes. Our method of over-sampling the minority class involves creating synthetic

Google Scholar



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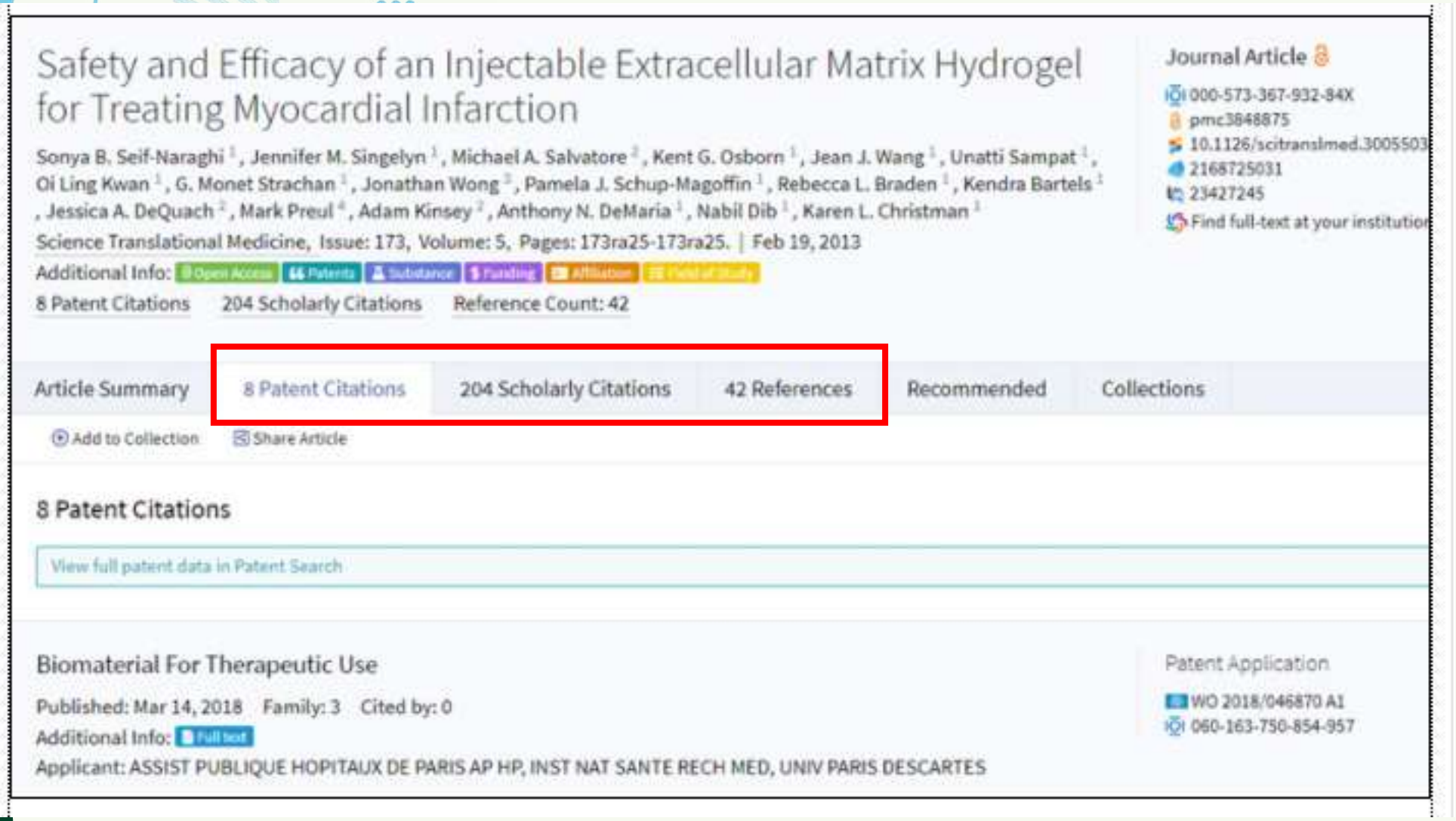

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A clustering approach to multireference alignment of single-particle projections in electron microscopy
Journal of Structural Biology, 171(2), 197-206 - March 2010
https://doi.org/10.1016/j.jsb.2010.03.011
Authors
C.O.S. Sorzano - National Center for Biotechnology
Corresponding Author
J.R. Bilbao-Castro - University of Almeria
Y. Shkolnisky - Tel Aviv University
7 more
Abstract
Two-dimensional analysis of projections of single-particles acquired by an electron microscope is a useful tool to help identifying the different kinds of projections present in a dataset and their different projection directions. Such analysis is also useful to distinguish between different kinds of particles or different particle conformations. In this paper we introduce a new algorithm for performing two-dimensional multireference alignment and classification that is based on a Hierarchical clustering approach using correntropy (instead of the more traditional correlation) and a modified criterion for the definition of the clusters specially suited for cases in which the Signal-to-Noise Ratio of the differences between classes is low. We show that our algorithm offers an improved sensitivity over current
More
Acknowledgements
The authors are thankful to Dr. Scheres for revising the final manuscript and for insightful discussions, and to Dr. Martín-Benito for his help running the Spider algorithms. This work was funded by the European Union (projects FP6-502828 and UE-512092), the 3DEM European network (LSHG-CT-2004-502828) and the ANR (PCV06-142771), the Spanish Ministerio de Educación (CSD2006-0023, BIO2007-67150-C01 and BIO2007-67150-C03), the Spanish Ministerio de Ciencia e Innovación (ACI2009-1022), the Spanish Fondo de Investigación Sanitaria (04/0683) and the Comunidad de Madrid (S-GEN-0166-2006). The authors wish to thank support from grants MCI-TIN2008-01117 and JA-P06-TIC01426. J.R. Bilbao-Castro is a fellow of the Spanish "Juan de la Cierva" postdoctoral contract
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3.5 Relative Citation Ratio
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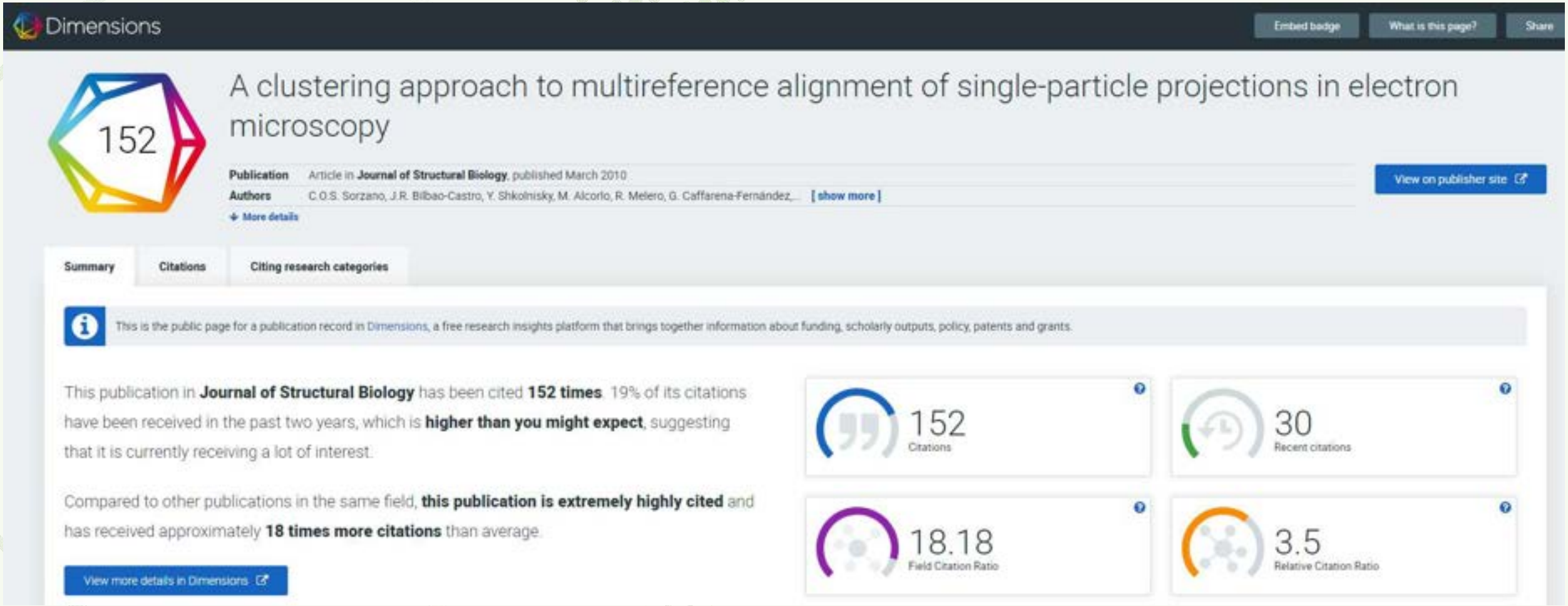
Patents (2)
Mendeley (85)
CiteULike (2)
Document history
2010-08 Published print
2010-03-31 Published online
Funded By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A clustering approach to multireference alignment of single-particle projections in electron microscopy
Publication Article in Journal of Structural Biology, published March 2010
Authors C.O.S. Sorzano, J.R. Bilbao-Castro, Y. Shkolnisky, M. Alcorlo, R. Melero, G. Caffarena-Fernández,... [show more]
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- תחום המחקר
- סוג המאמרים
- פרסומים מרובי-מחברים

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מדדים ברמת המחבר
(Author-level Metrics)

Web of Science
Scopus
Google Scholar

- מספר הפרסומים הכולל
- מספר הציטוטים הכולל
- h-index

- **Author Field Weighted Citation Impact**

Scopus/SciVal

h-index

לחוקר יש אינדקס של **h** אם:

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- המדד לא מושפע מחריגים
- המדד מתייחס לתחום מחקר מסוים
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מקורות למדדים ברמת המחבר

1. Scopus
2. Web of Science
3. Google Scholar
4. Publish or Perish (PoP)

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Einstein, Albert
EINSTEIN, A.
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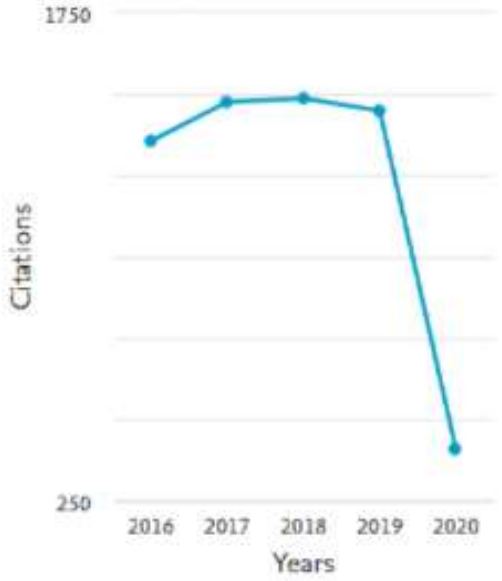

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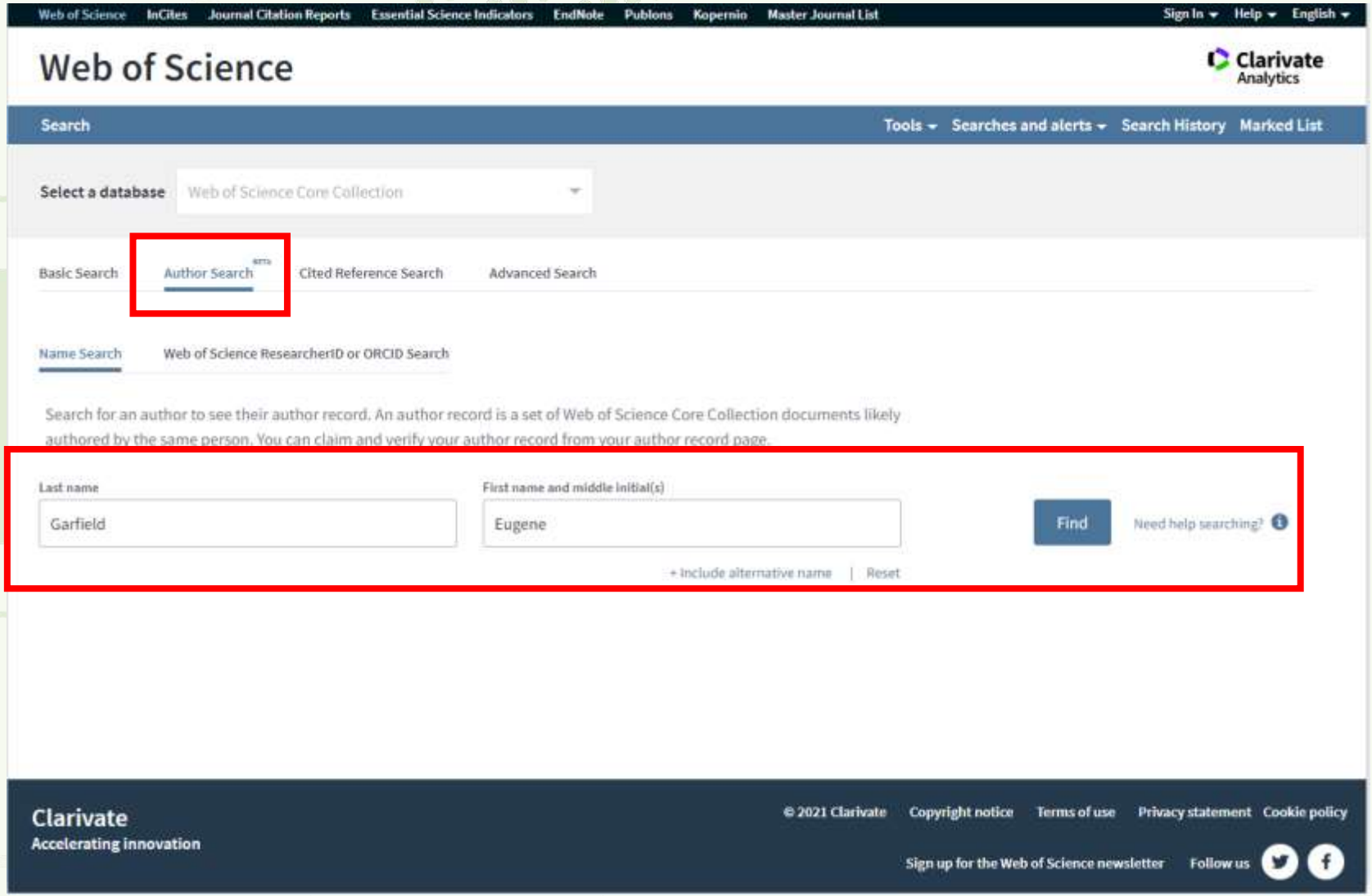

Web of Science

Clarivate Analytics

Garfield, Eugene

Claimed by the author BETA

University of Barcelona
BARCELONA, SPAIN

Web of Science ResearcherID: A-1009-2008

Alternative names: Garfield, E Garfield, Eugene Garfield, E.

Organizations:

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Citation Network

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259

Sum of Times Cited
180,306

Citing Articles
10,760

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1,549 publications from Web of Science Core Collection

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Sorted by Date: newest first Filter By: All Publications 1 of 31

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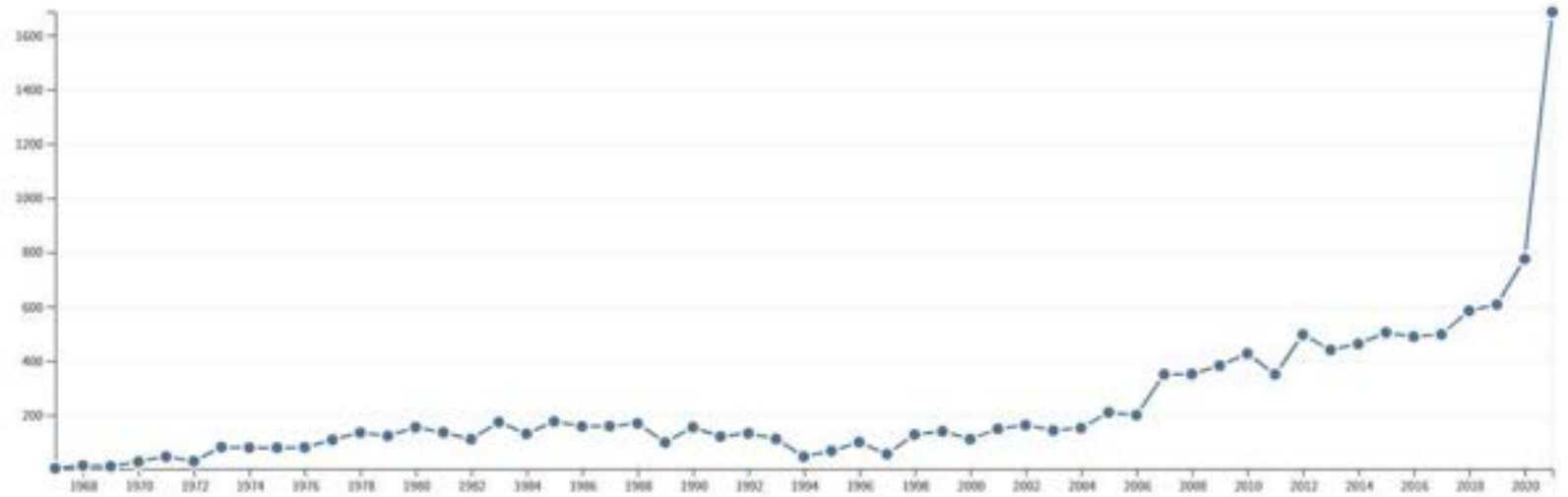
Total Publications	h-index	Sum of Times Cited	Citing articles
1,523 Analyze	258	12,879	9,604 Analyze
1997 – 2016	Average citations per item: 8.46	Without self citations: 11,326	Without self citations: 8,752 Analyze

Sum of Times Cited per Year



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Eugene Garfield

Founder - Institute for Scientific Information (ISI)

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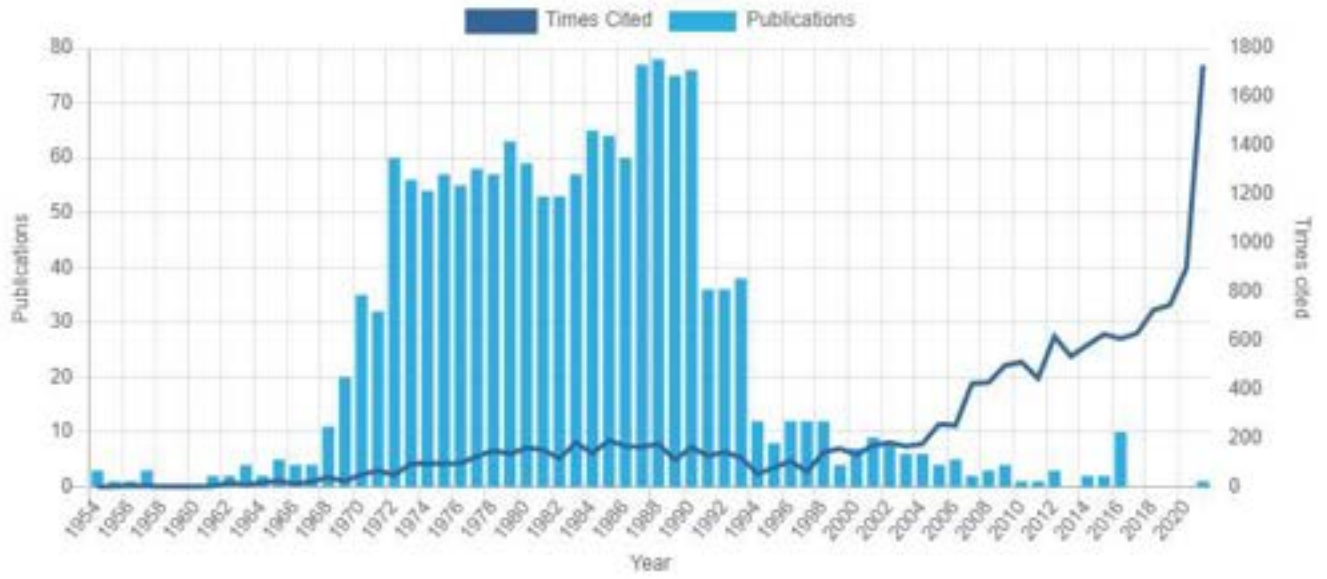
PUBLICATIONS	TOTAL TIMES CITED	H-INDEX
1,550	15,200	259

Summary
Metrics
Publications

Eugene Garfield's impact over time



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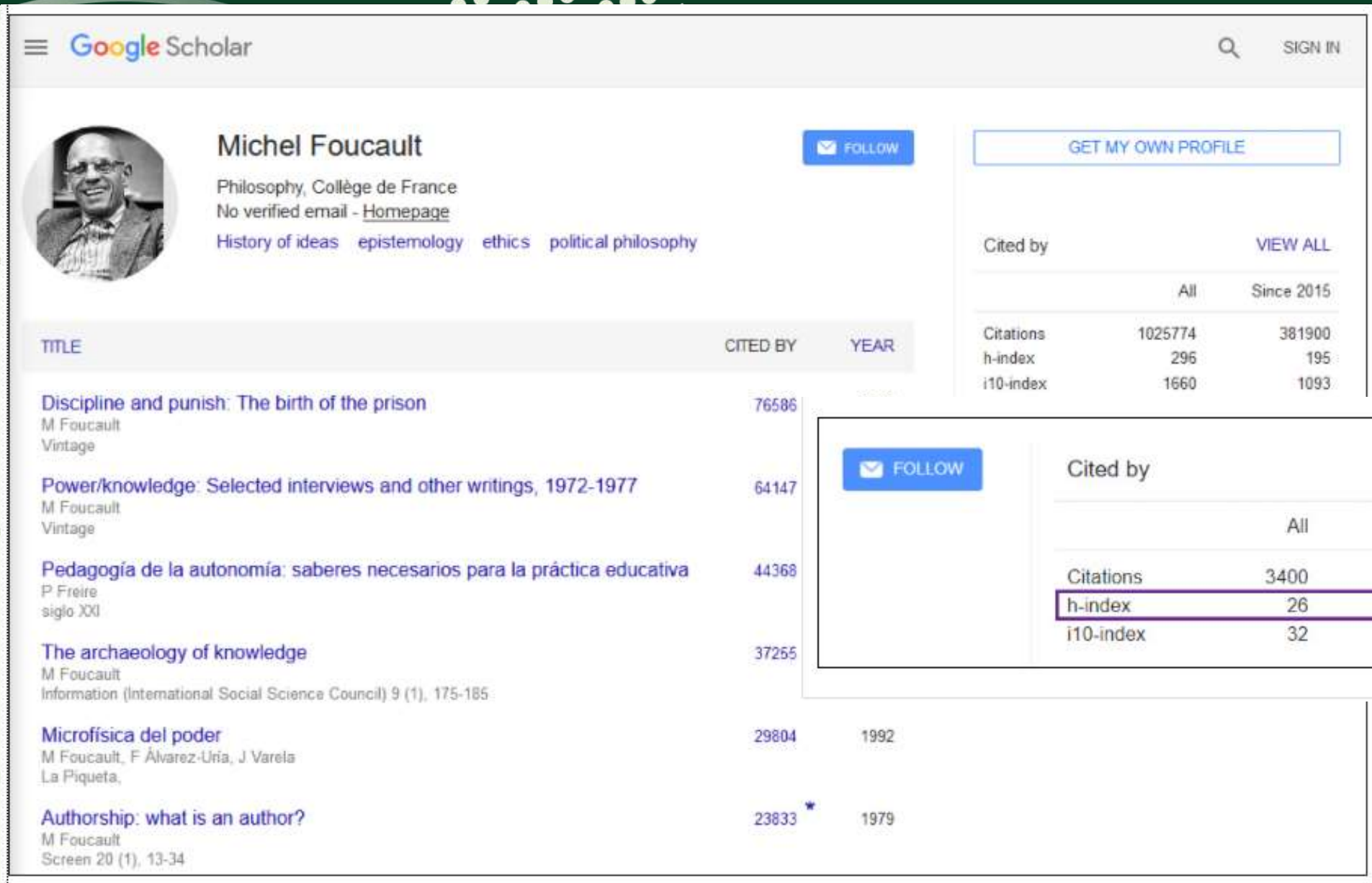

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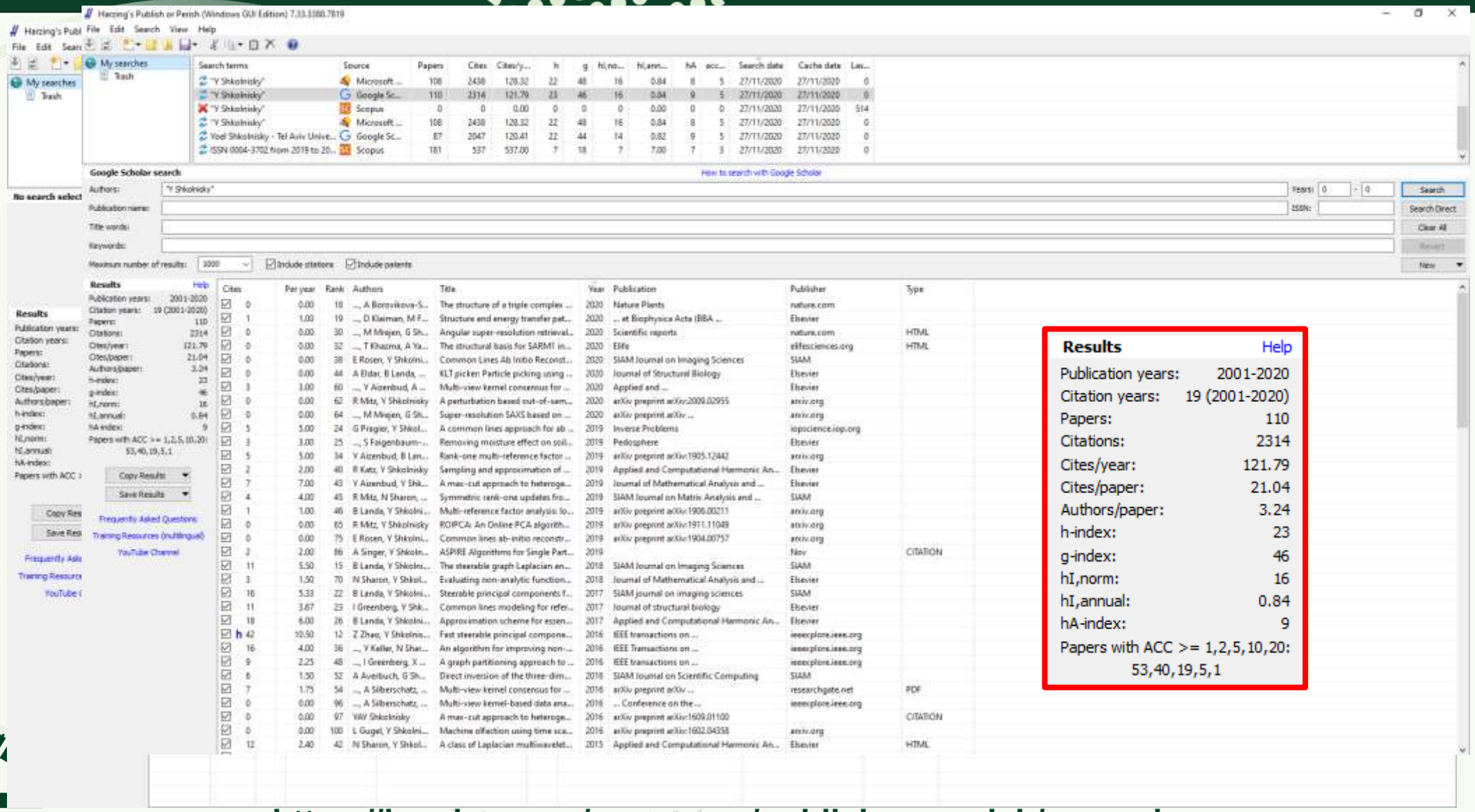

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Citation years:	19 (2001-2020)
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מדדים ברמת כתב העת (Journal-level Metrics)

מאפשרים השוואה בין כתבי עת למטרות הבאות:

- בחירת כתב העת בו נרצה לפרסם
- השוואת ביצועי כתבי עת ואיתור מגמות
- הערכת הפרסומים בכתבי עת

לפי:
https://libguides.nus.edu.sg/researchimpact/article

Journal Impact Factor

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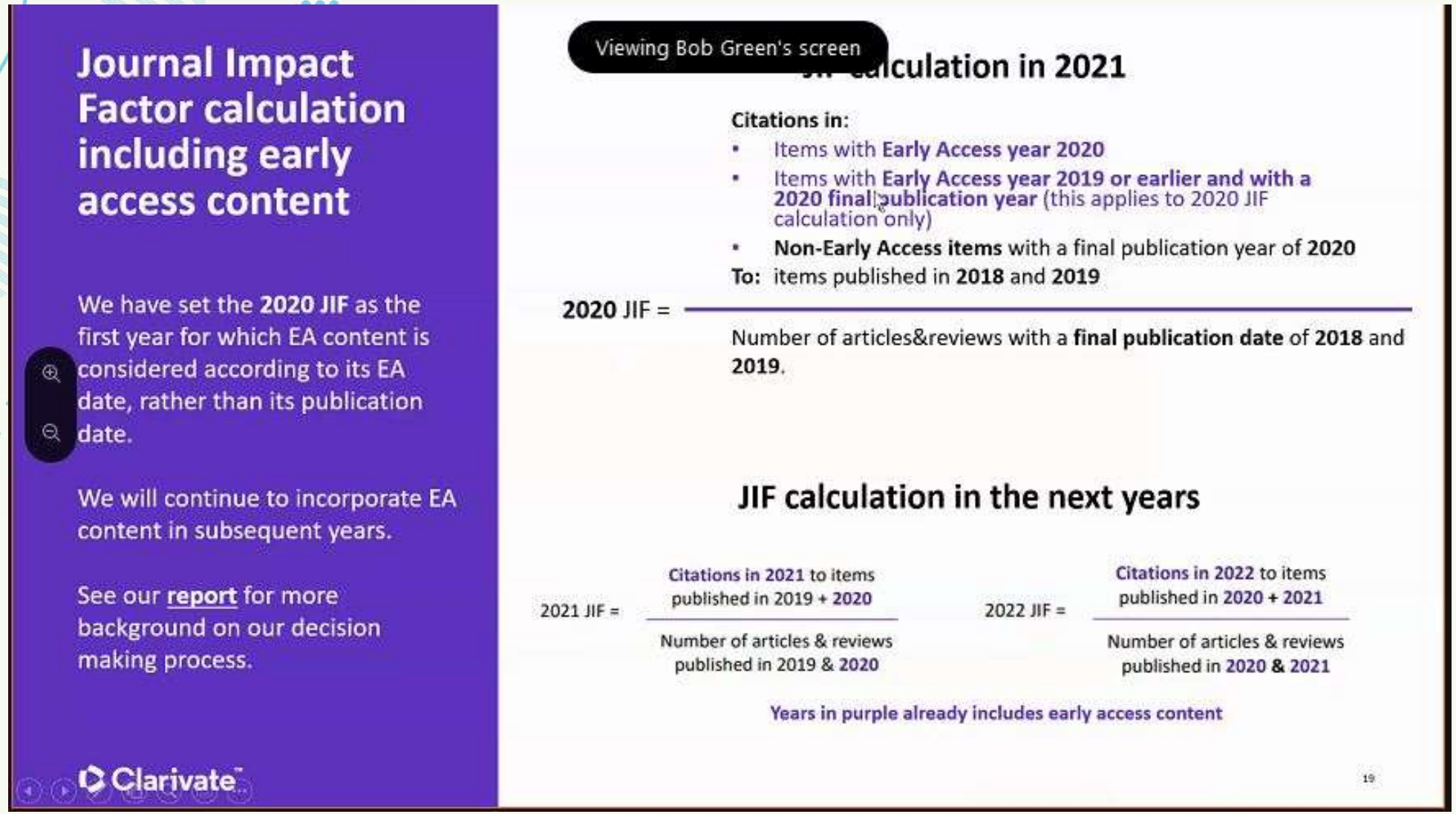
שינויים צפויים בחישוב ה- Impact Factor



לפי מצגת שהוצגה בוובינר Journal Citation Reports 2021 Update

שימו לב!

- גורמים המשפיעים על המדד:
- לוח הזמנים
- תחום המחקר (דפוסי ציטוט)
- סוג המאמרים
- שינויים בפורמט ובכותר
- שפה

לפי:
https://libguides.nus.edu.sg/researchimpact/article
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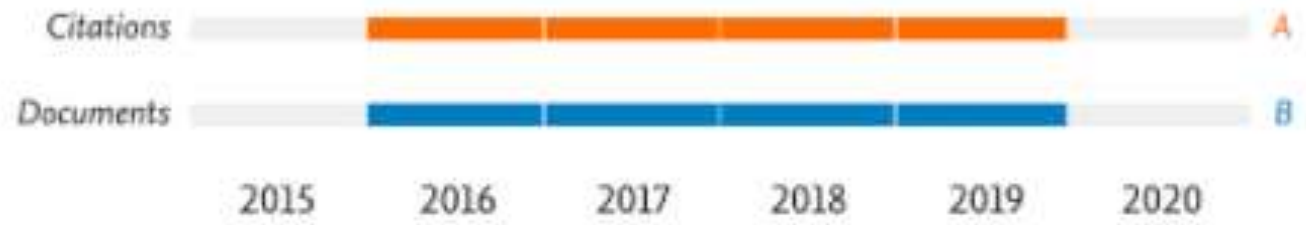
CiteScore



$$\text{CiteScore 2019} = \frac{A}{B}$$

Numerator | Citations to articles, reviews, conference papers, book chapters and data papers published in 2016-2019

Denominator | Articles, reviews, conference papers, book chapters and data papers published in 2016-2019

(adapted from https://service-elsevier-com.libproxy1.nus.edu.sg/app/answers/detail/a_id/14880/supporthub/scopus/)

SCImago Journal Rank (SJR)

- מתייחס למספר הציטוטים שקיבל כתב העת, ולחשיבותם או יוקרתם של כתבי העת שמהם מגיעים הציטוטים
- חלון ציטוט של 3 שנים
- מתבסס על המקורות של Scopus

לפי:
https://libguides.nus.edu.sg/researchimpact/article

Source Normalized Impact per Paper (SNIP)

- מתייחס להבדלים ספציפיים בדפוסי הציטוט בתחומים שונים
- היחס בין ממוצע הציטוטים של מקור מסוים ל"פוטנציאל הציטוט" ("citation potential").
- חלון ציטוט של 3 שנים
- מתבסס על המקורות של Scopus

לפי:
https://libguides.nus.edu.sg/researchimpact/article
https://lib.biu.ac.il/node/1313
https://www.elsevier.com/authors/tools-and-resources/measuring-a-journals-impact

מקורות למדדים ברמת כתב העת

JIF
Journal Citation Reports

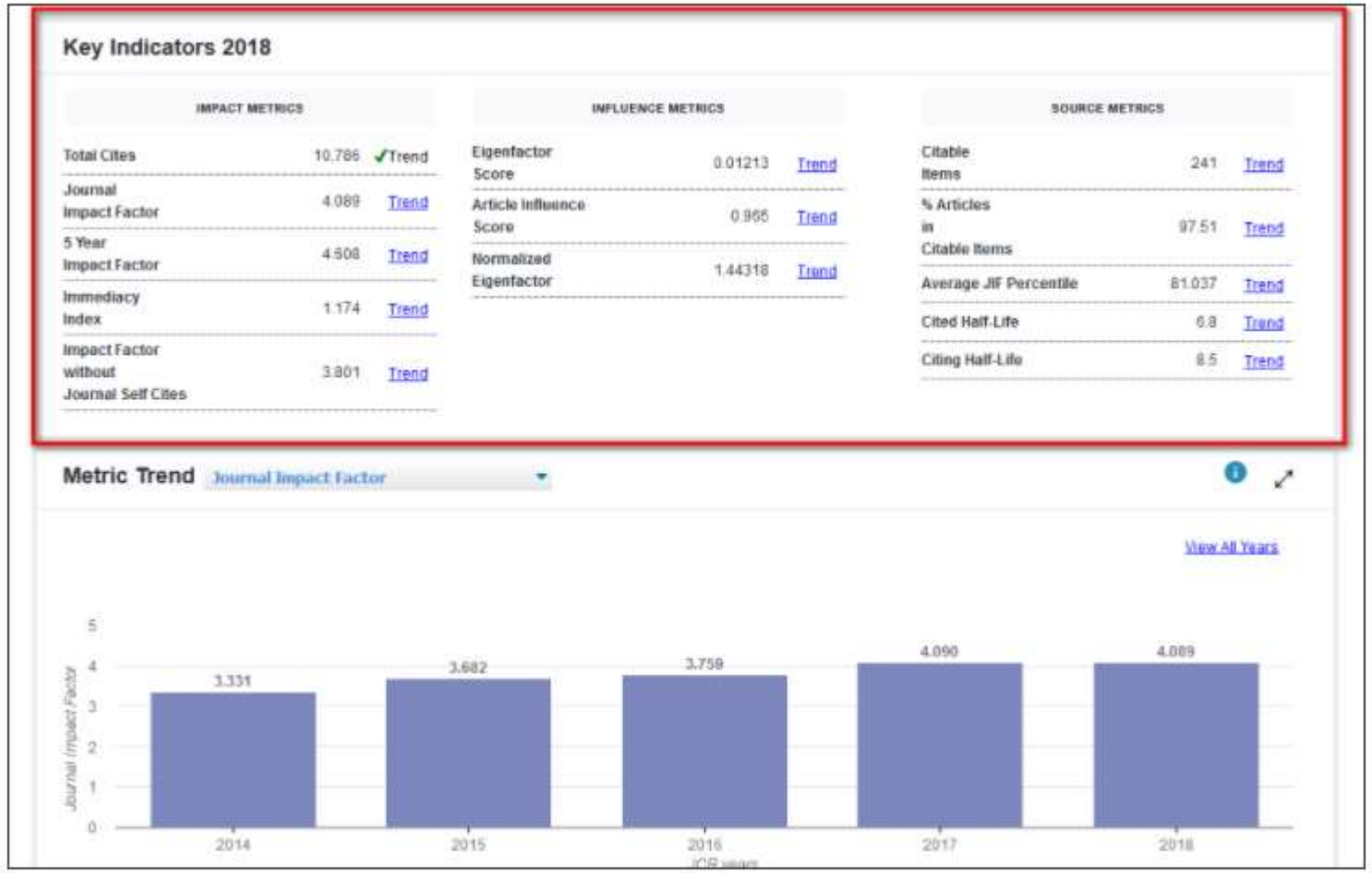
CiteScore, SJR, SNIP
Scopus Sources

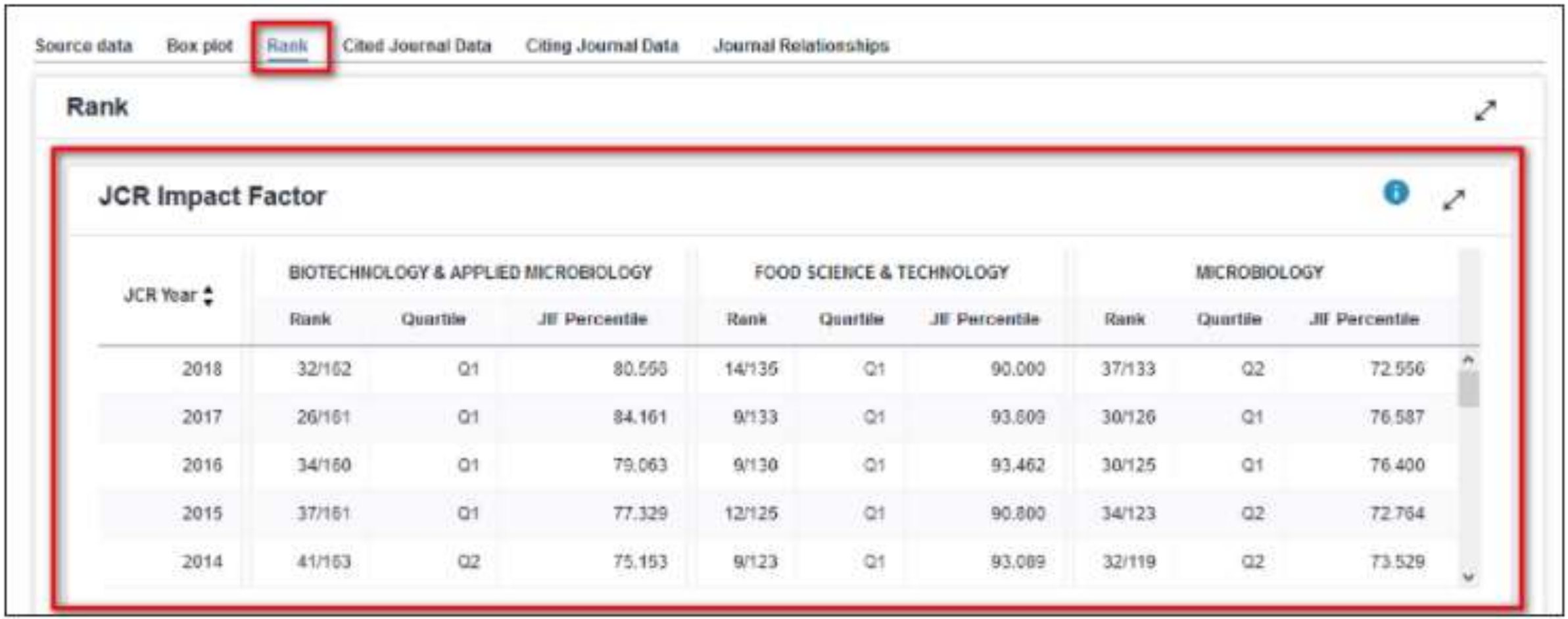
2

SJR
SCImago Journal & Country Rank

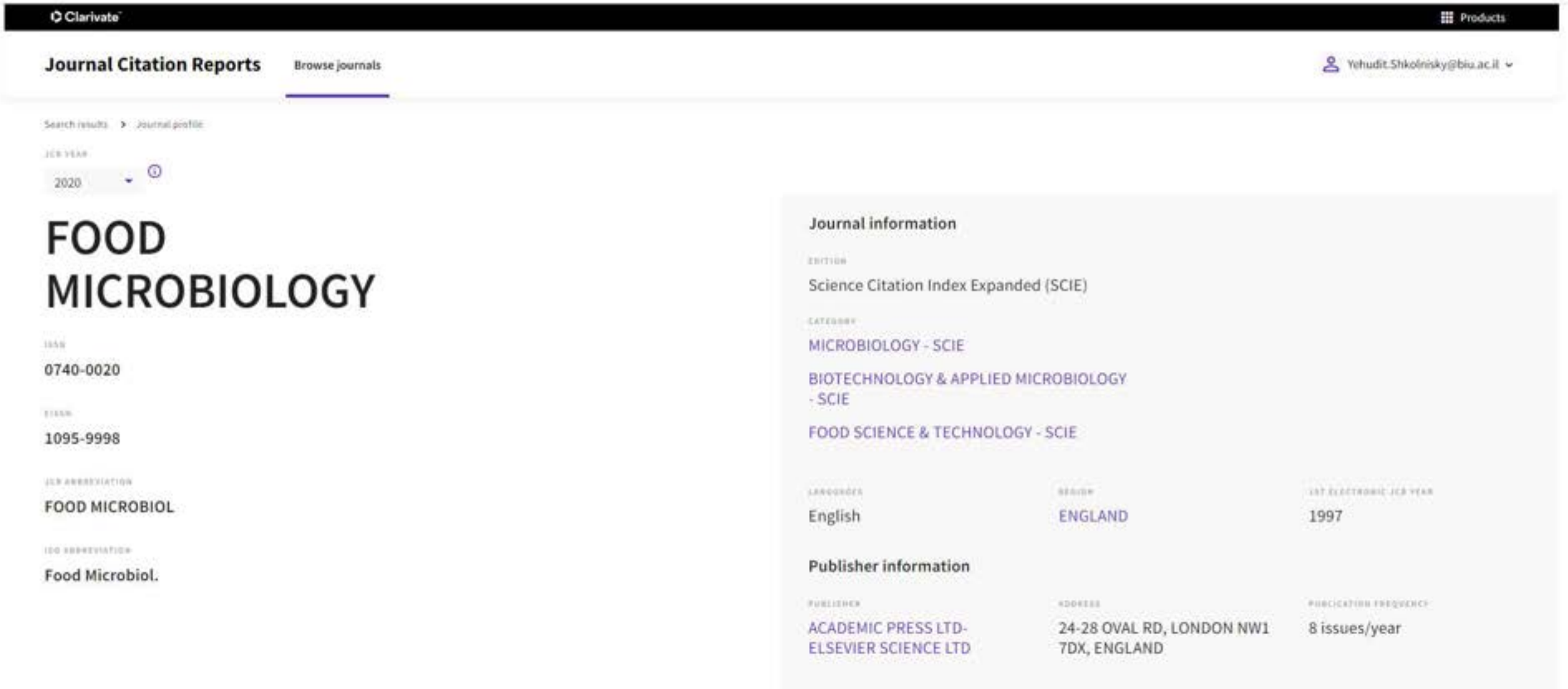
3

Journal Citation Reports - JIF


Key Indicators 2018
IMPACT METRICS
Total Cites 10,786 ✓Trend
Journal Impact Factor 4.089 Trend
5 Year Impact Factor 4.508 Trend
Immediacy Index 1.174 Trend
Impact Factor without Journal Self Cites 3.801 Trend
INFLUENCE METRICS
Eigenfactor Score 0.01213 Trend
Article Influence Score 0.965 Trend
Normalized Eigenfactor 1.44318 Trend
SOURCE METRICS
Citable Items 241 Trend
% Articles in Citable Items 97.51 Trend
Average JIF Percentile 81.037 Trend
Cited Half-Life 6.8 Trend
Citing Half-Life 8.5 Trend
Metric Trend Journal Impact Factor
View All Years
Journal Impact Factor
3.331
3.682
3.759
4.090
4.089
2014
2015
2016
2017
2018


Source data
Box plot
Rank
Cited Journal Data
Citing Journal Data
Journal Relationships
Rank
JCR Impact Factor
JCR Year
BIOTECHNOLOGY & APPLIED MICROBIOLOGY
FOOD SCIENCE & TECHNOLOGY
MICROBIOLOGY
Rank
Quartile
JIF Percentile
2018 32/162 Q1 80.556 14/135 Q1 90.000 37/133 Q2 72.556
2017 26/161 Q1 84.161 9/133 Q1 93.609 30/126 Q1 76.587
2016 34/160 Q1 79.063 9/130 Q1 93.462 30/125 Q1 76.400
2015 37/161 Q1 77.329 12/125 Q1 90.800 34/123 Q2 72.764
2014 41/163 Q2 75.153 9/123 Q1 93.089 32/119 Q2 73.529

Journal Citation Indicator

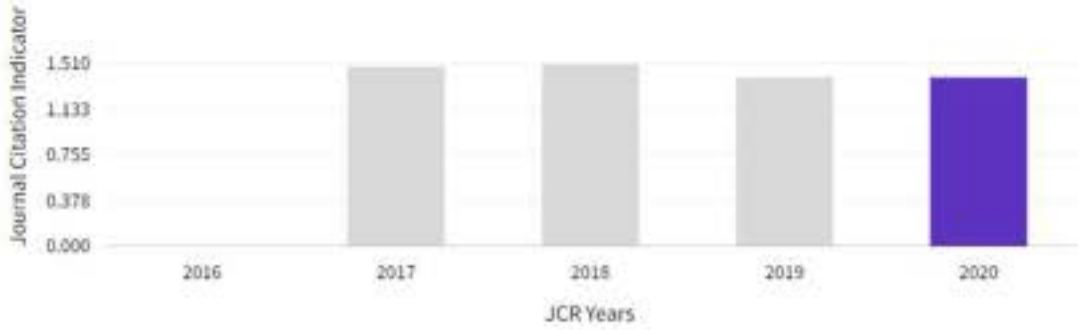


Journal Citation Indicator (JCI)

Export

1.40

The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in that category. It may be used alongside other metrics to help you evaluate journals. Learn more

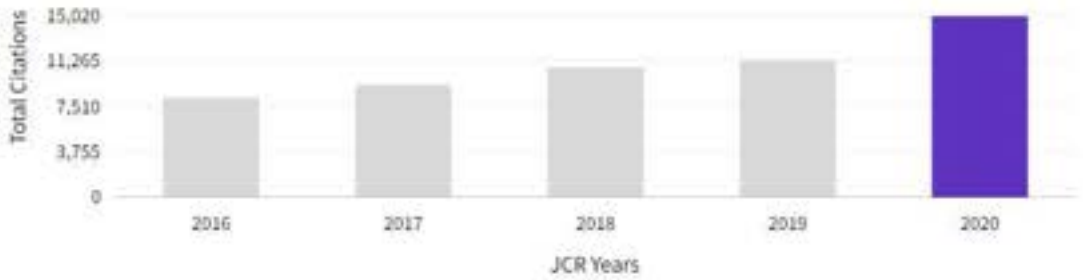


Total Citations

Export

15,020

The total number of times that a journal has been cited by all journals included in the database in the JCR year. Citations to journals listed in JCR are compiled annually from the JCR years combined database, regardless of which JCR edition lists the journal.



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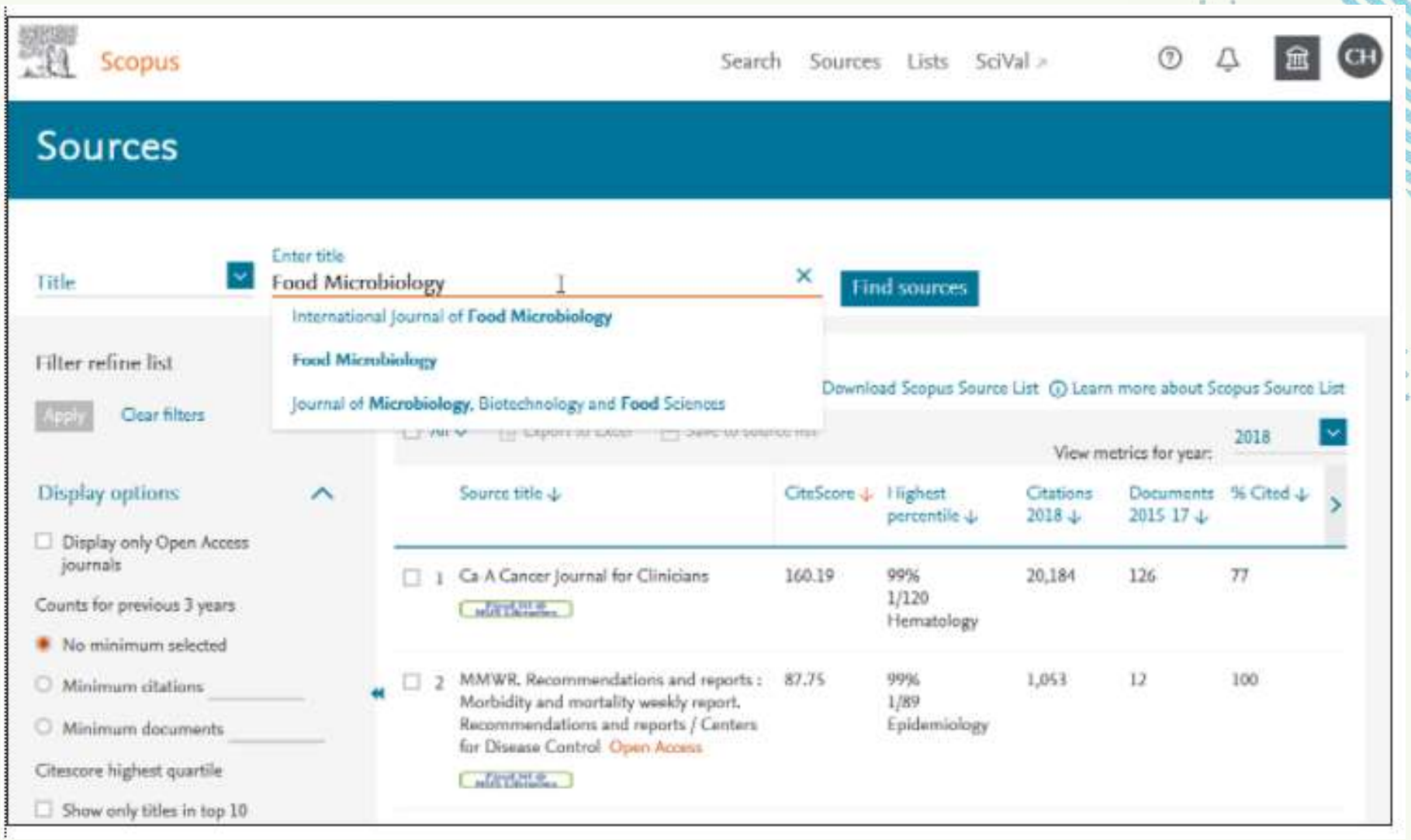

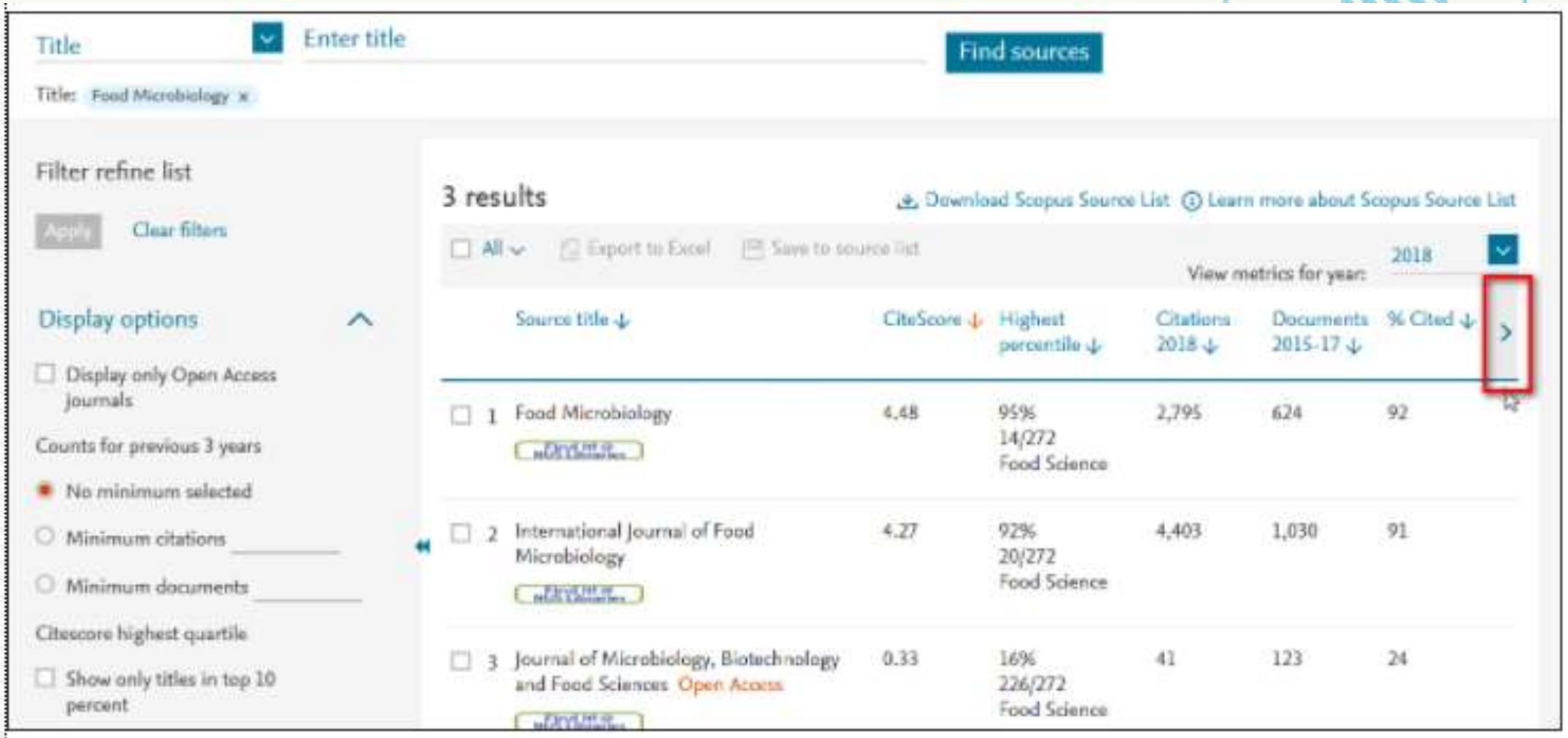
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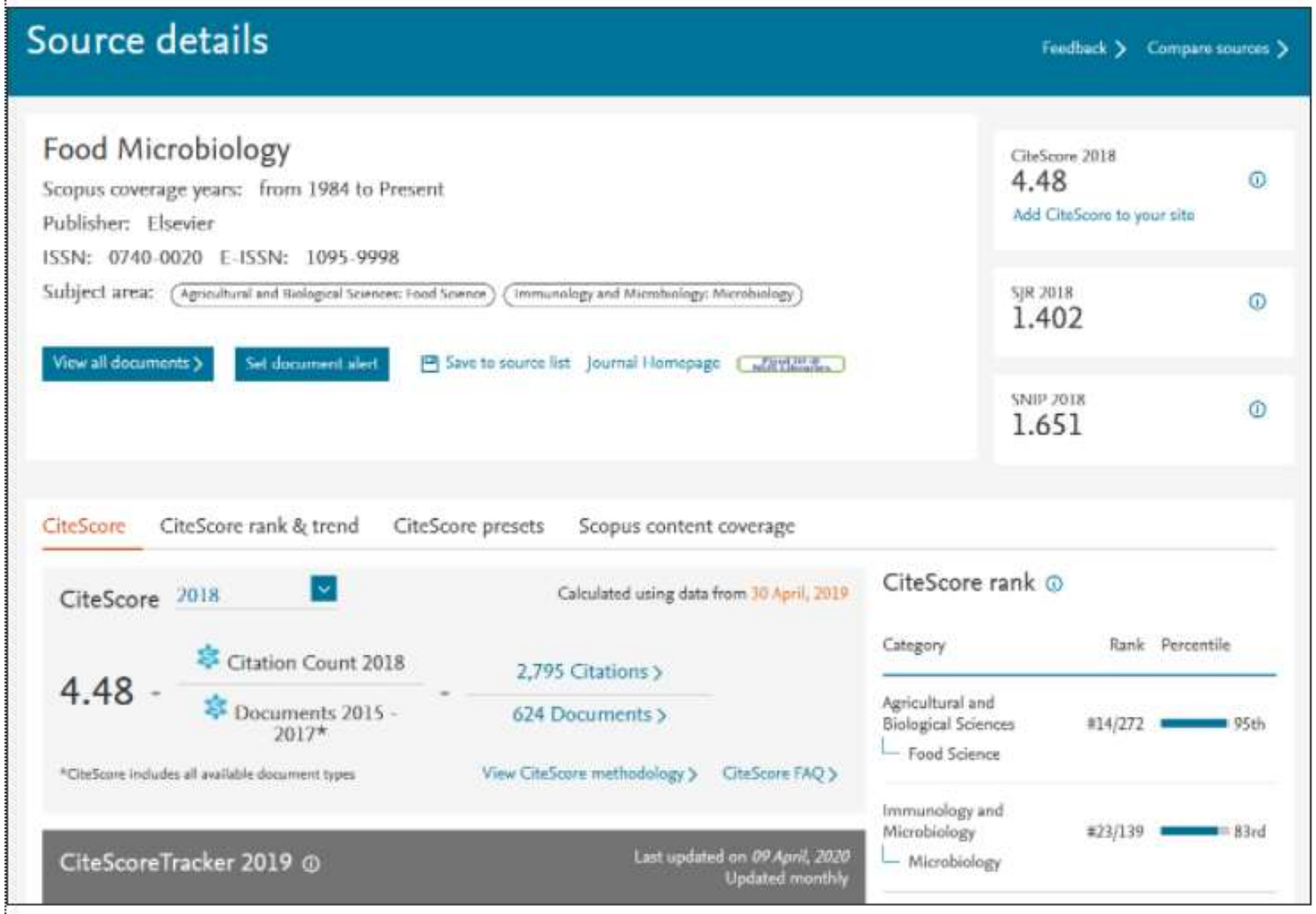
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4.48
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SJR 2018
1.402
SNIP 2018
1.651
CiteScore
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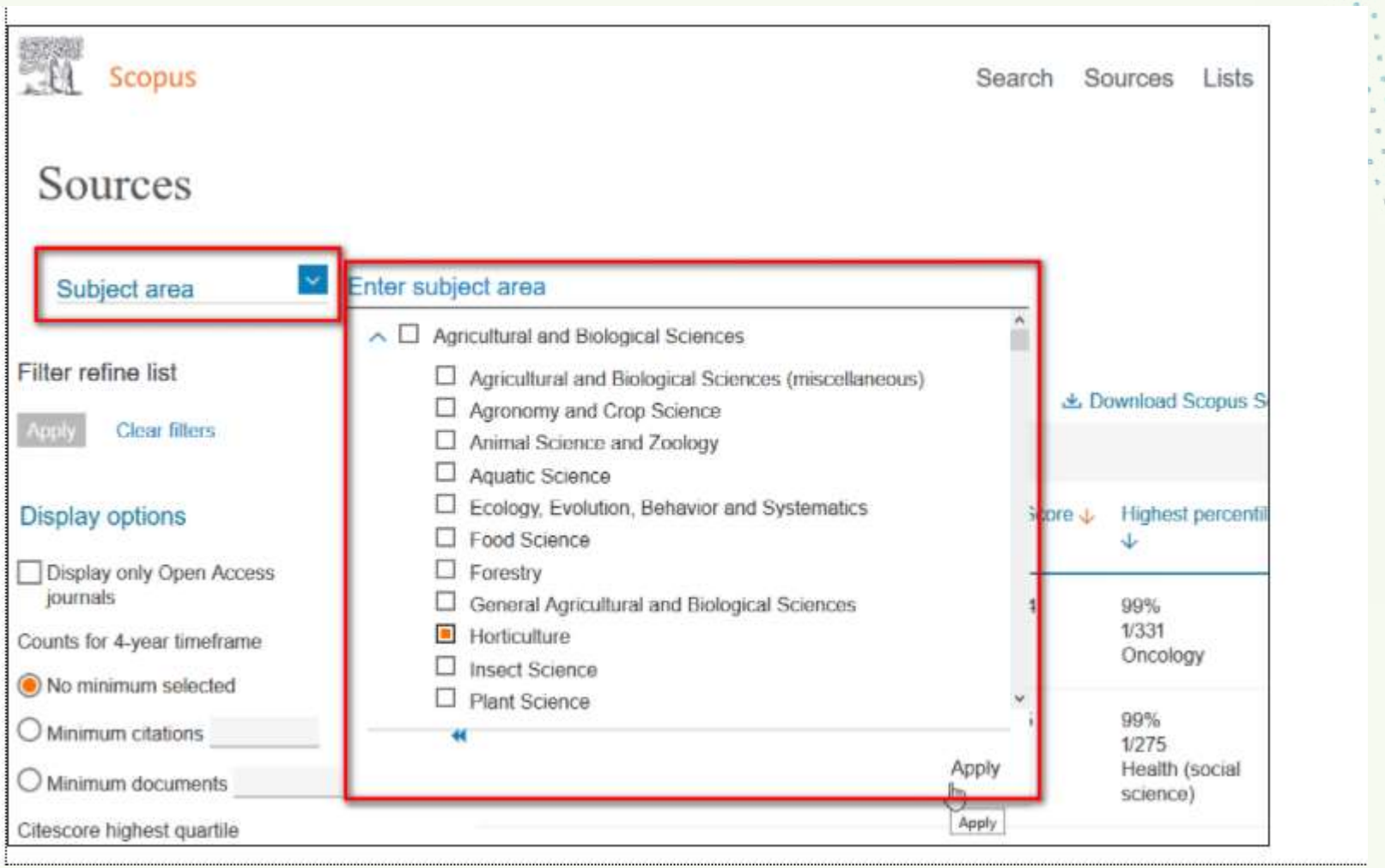
4.48 =
Citation Count 2018
2,795 Citations
Documents 2015 - 2017*
624 Documents
*CiteScore includes all available document types
View CiteScore methodology
CiteScore FAQ
CiteScore rank
Category
Rank
Percentile
Agricultural and Biological Sciences
#14/272
95th
Food Science
Immunology and Microbiology
#23/139
83rd
Microbiology
CiteScoreTracker 2019
Last updated on 09 April, 2020
Updated monthly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Agricultural and Biological Sciences (miscellaneous)
Agronomy and Crop Science
Animal Science and Zoology
Aquatic Science
Ecology, Evolution, Behavior and Systematics
Food Science
Forestry
General Agricultural and Biological Sciences
Horticulture
Insect Science
Plant Science
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Filter refine list
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Display options
Display only Open Access journals
Counts for 4-year timeframe
No minimum selected
Minimum citations
Minimum documents
Citescore highest quartile
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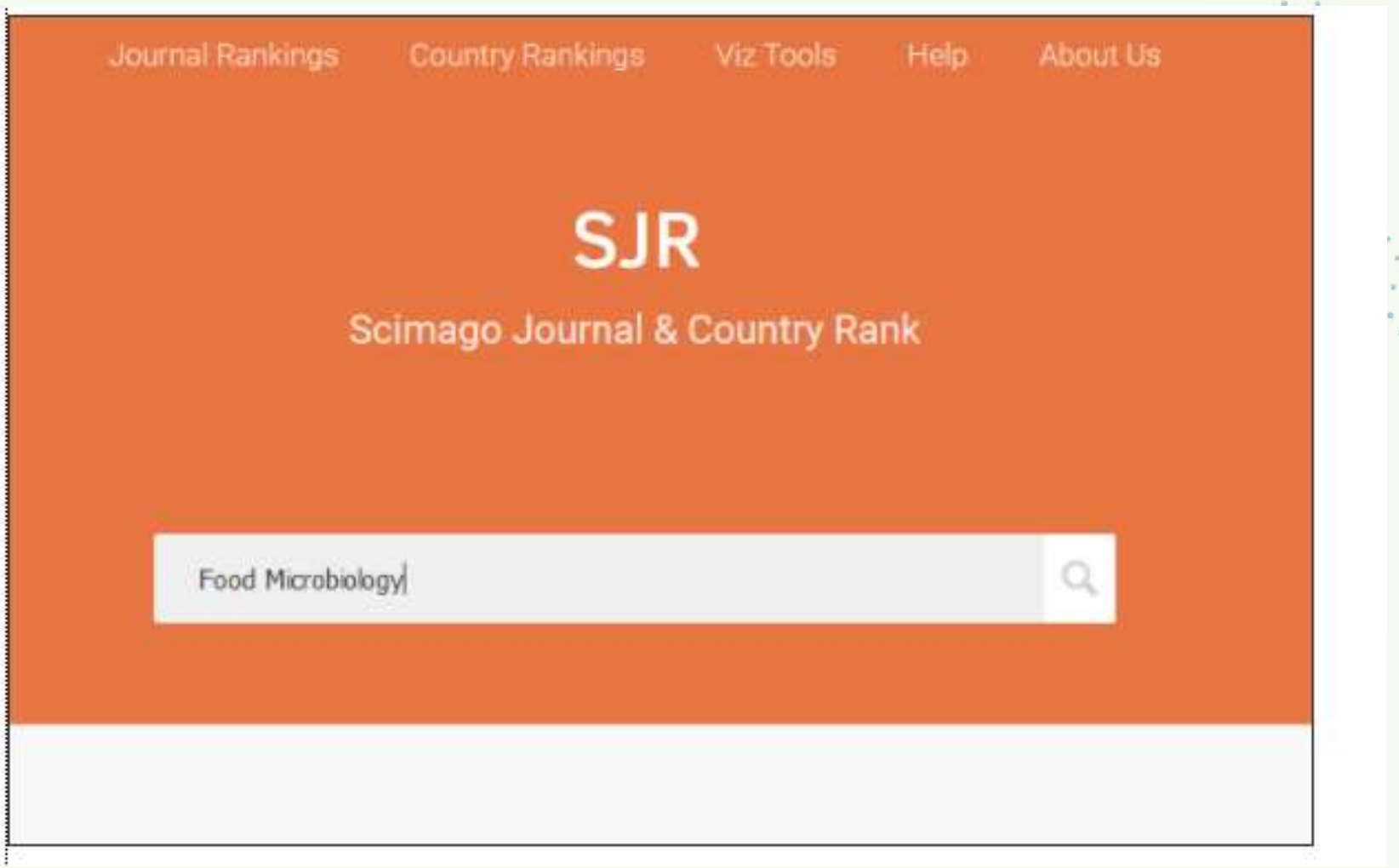
99%
1/331
Oncology
99%
1/275
Health (social science)

SCImago Journal & Country Rank - SJR




Quartiles
Food Science
Microbiology
1999
2001
2003
2005
2007
2009
2011
2013
2015
2017
SJR
1.8
1.2
0.6
1.402 (2018)
1999
2002
2005
2008
2011
2014
2017
Citations per document
5.6
4.8
4
3.2
2.4
1.6
Total Cites
Self-Cites
4k

אלטמטריקה (Altmetrics)

- מדידת ההשפעה שיש לפרסום על הסביבה המקוונת
- האלטמטריקה משלימה את הביבליומטריה

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https://libguides.nus.edu.sg/researchimpact/article
https://libguides.ucd.ie/bibliometrics/altmetrics

מדוע להשתמש באלטמטריקה?

1. מהירות
2. טווח
3. לא אקדמי
4. שימו לב למגבלות!

אחרי אילו מקורות נתונים האלטמטריקה עוקבת?

1

שימוש

צפיות, הורדות

2

אזכורים

סיפורים חדשותיים, ביקורות ספרים, מסמכי מדיניות, פוסטים בבלוג, ערכים בוויקיפדיה

3

Captures

סימניות ב- Mendeley או CiteULike

4

מדיה חברתית

ציוצים בטוויטר, שיתופים בפייסבוק או יוטיוב

5

ציטוטים

Web of Science ,Scopus

6

ראו:

https://libguides.ucd.ie/bibliometrics/altmetrics

כלים נוספים - ראו:
http://altmetrics.org/tools/

מקורות לאלטמטריקה

1 Altmetric

2 PLUMX

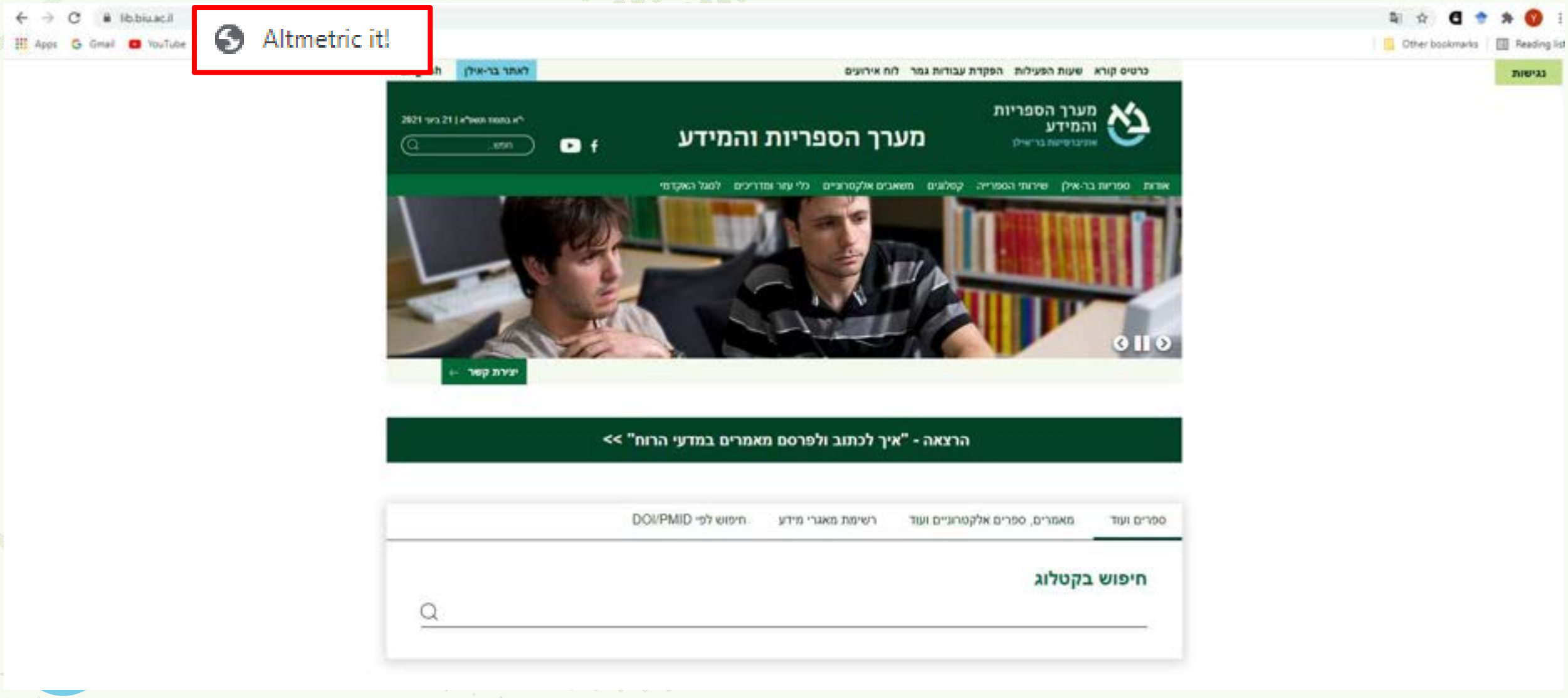
3 Impactstory

4 KUDOS

Mendeley

Altmetric Bookmarklet

עובד רק לגבי תוצרי מחקר עם DOI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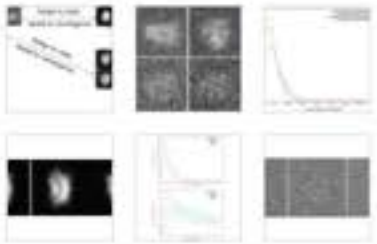
מערך הספריות והמידע
הרצאה - "איך לכתוב ולפרסם מאמרים במדעי הרוח" >>
חיפוש בקטלוג



Journal of Structural Biology

Volume 171, Issue 2, August 2010, Pages 197-206

A clustering approach to multireference alignment of single-particle projections in electron microscopy

C.O.S. Sorzano [a] [*], J.R. Bilbao-Castro [b], Y. Shkolnisky [c], M. Alcorlo [a], R. Melero [a], G. Caffarena-Fernández [d], M. Li [e], G. Xu [e], R. Marabini [f], J.M. Carazo [a]

https://doi.org/10.1016/j.jsb.2010.03.011

Abstract

Two-dimensional analysis of projections of single-particles acquired by an electron microscope is a useful tool to help identifying the different kinds of projections present in a dataset and their different projection directions. Such analysis is also useful to distinguish between different kinds of particles or different particle conformations. In this paper we introduce a new algorithm for performing two-dimensional multireference alignment and classification that is based on a Hierarchical clustering approach using correntropy (instead of the more traditional correlation) and a modified criterion for the definition of the clusters specially suited for cases in which the Signal-to-Noise Ratio of the differences between classes is low. We show that our algorithm offers an improved sensitivity over

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3

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Authors	C.O.S. Sorzano, J.R. Bilbao-Castro, Y. Shkolnisky, M. Alcorlo, R. Melero, G. Caffarena-Fernández, M... [show]

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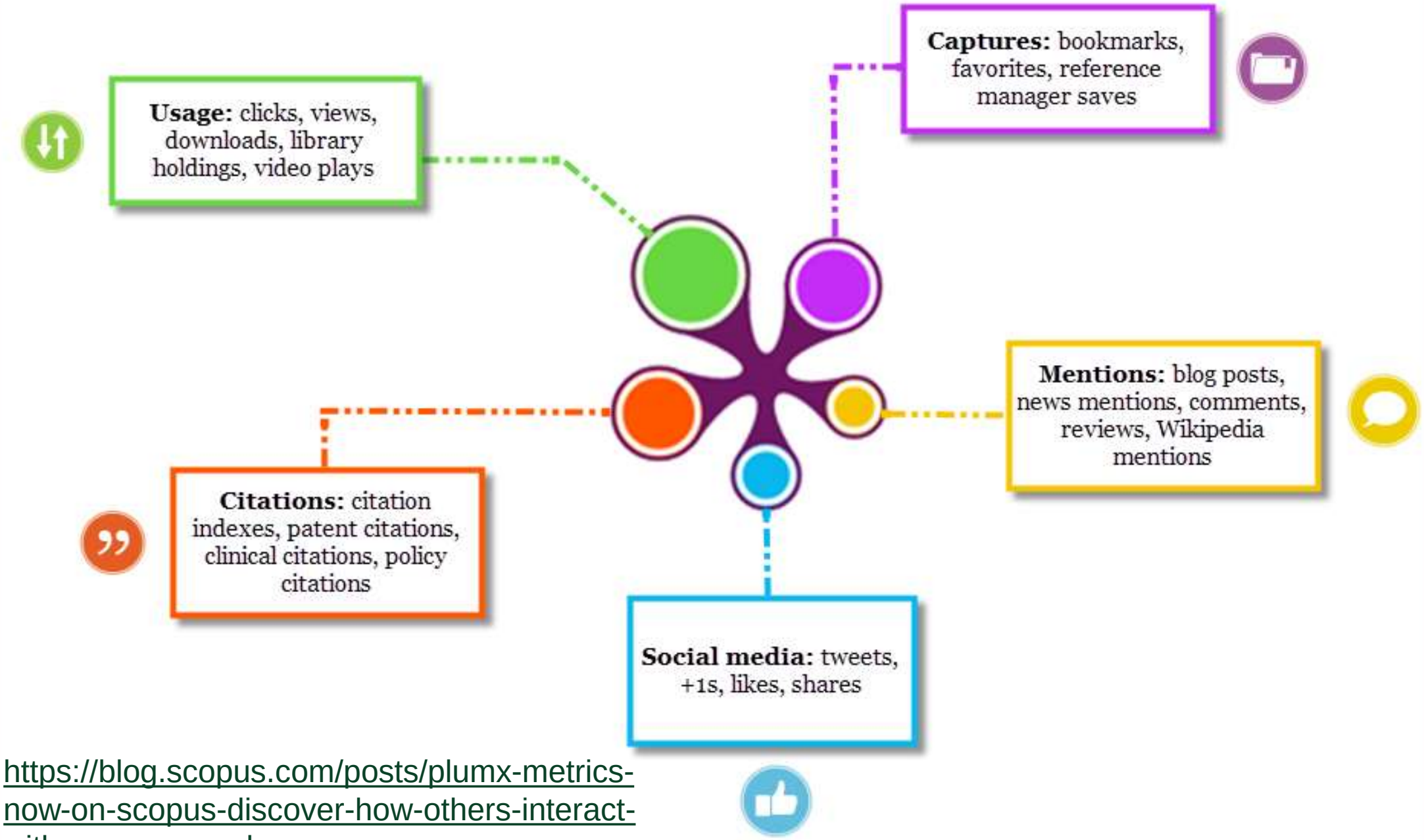
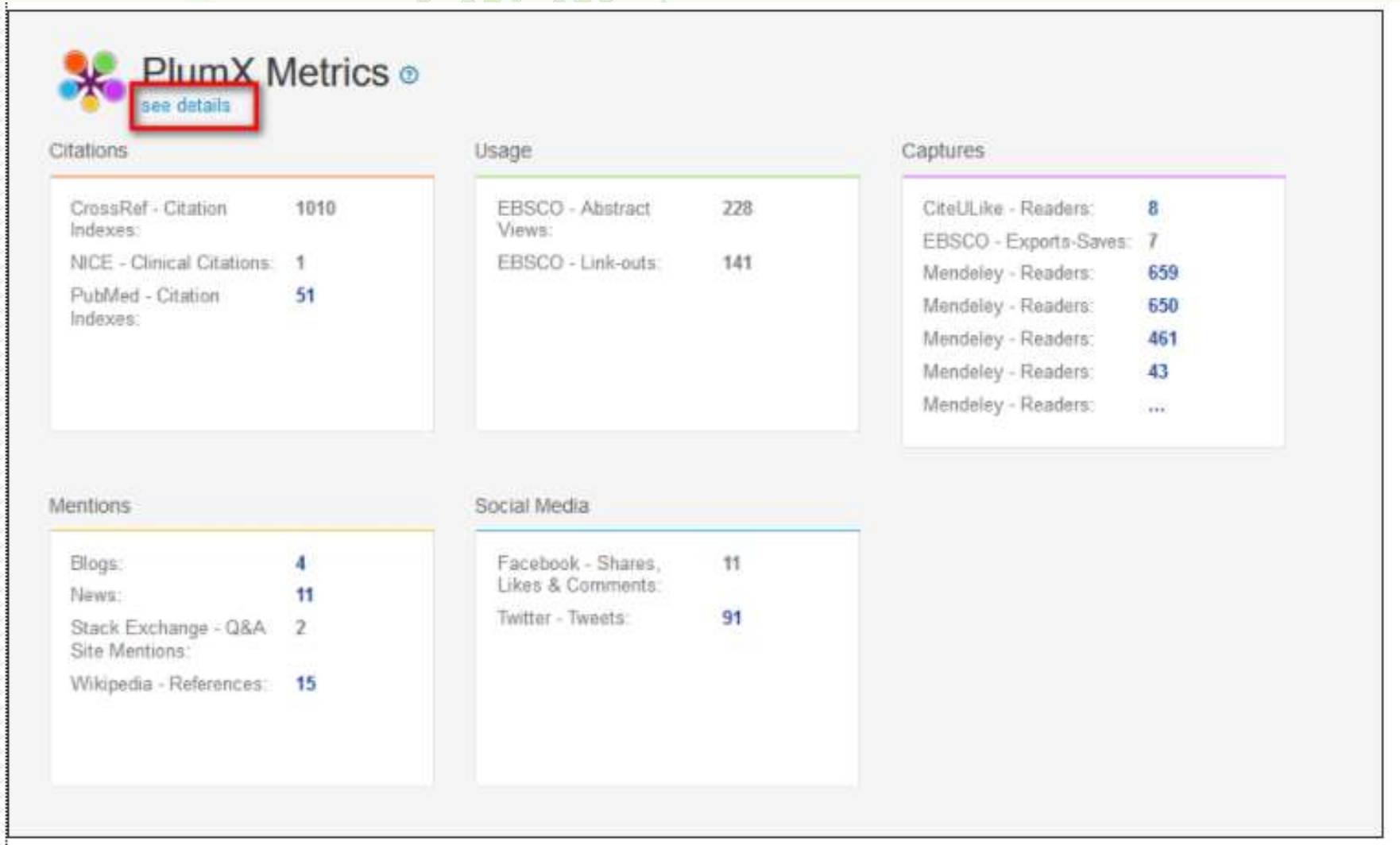


https://blog.scopus.com/posts/plumx-metrics-now-on-scopus-discover-how-others-interact-with-your-research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EBSCO - Abstract Views: 228
EBSCO - Link-outs: 141
Captures
CiteULike - Readers: 8
EBSCO - Exports-Saves: 7
Mendeley - Readers: 659
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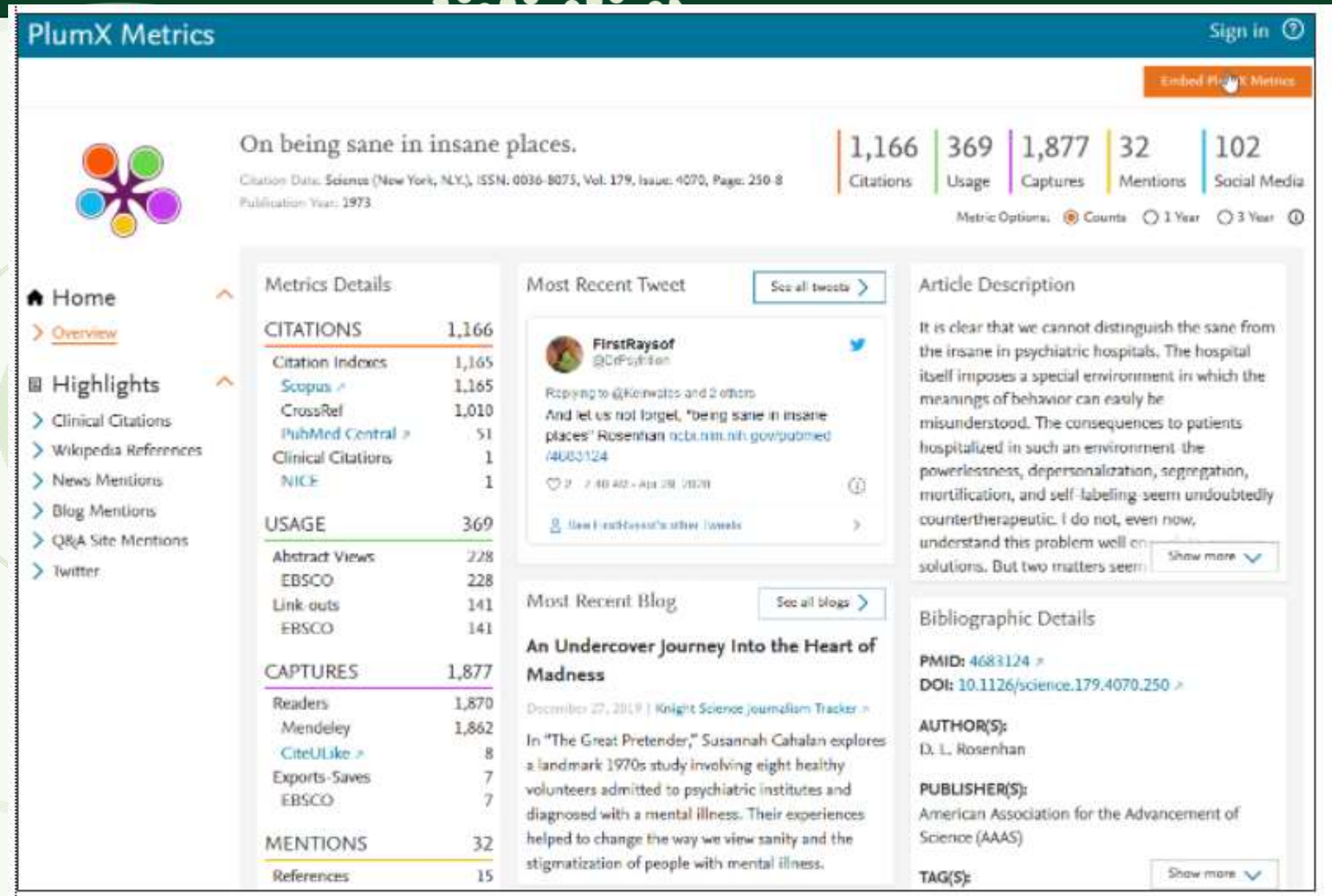
Twitter - Tweets: 91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1,877 Captures
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Q&A Site Mentions
Twitter
Metrics Details
CITATIONS 1,166
Citation Indexes 1,165
Scopus 1,165
CrossRef 1,010
PubMed Central 51
Clinical Citations 1
NICE 1
USAGE 369
Abstract Views 228
EBSCO 228
Link-outs 141
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CiteULike 8
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EBSCO 7
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References 15
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An Undercover Journey Into the Heart of Madness
In "The Great Pretender," Susannah Cahalan explores a landmark 1970s study involving eight healthy volunteers admitted to psychiatric institutes and diagnosed with a mental illness. Their experiences helped to change the way we view sanity and the stigmatization of people with mental illness.
Article Description
It is clear that we cannot distinguish the sane from the insane in psychiatric hospitals. The hospital itself imposes a special environment in which the meanings of behavior can easily be misunderstood. The consequences to patients hospitalized in such an environment the powerlessness, depersonalization, segregation, mortification, and self-labeling seem undoubtedly countertherapeutic. I do not, even now, understand this problem well
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DOI: 10.1126/science.179.4070.250
AUTHOR(S):
D. L. Rosenhan
PUBLISHER(S):
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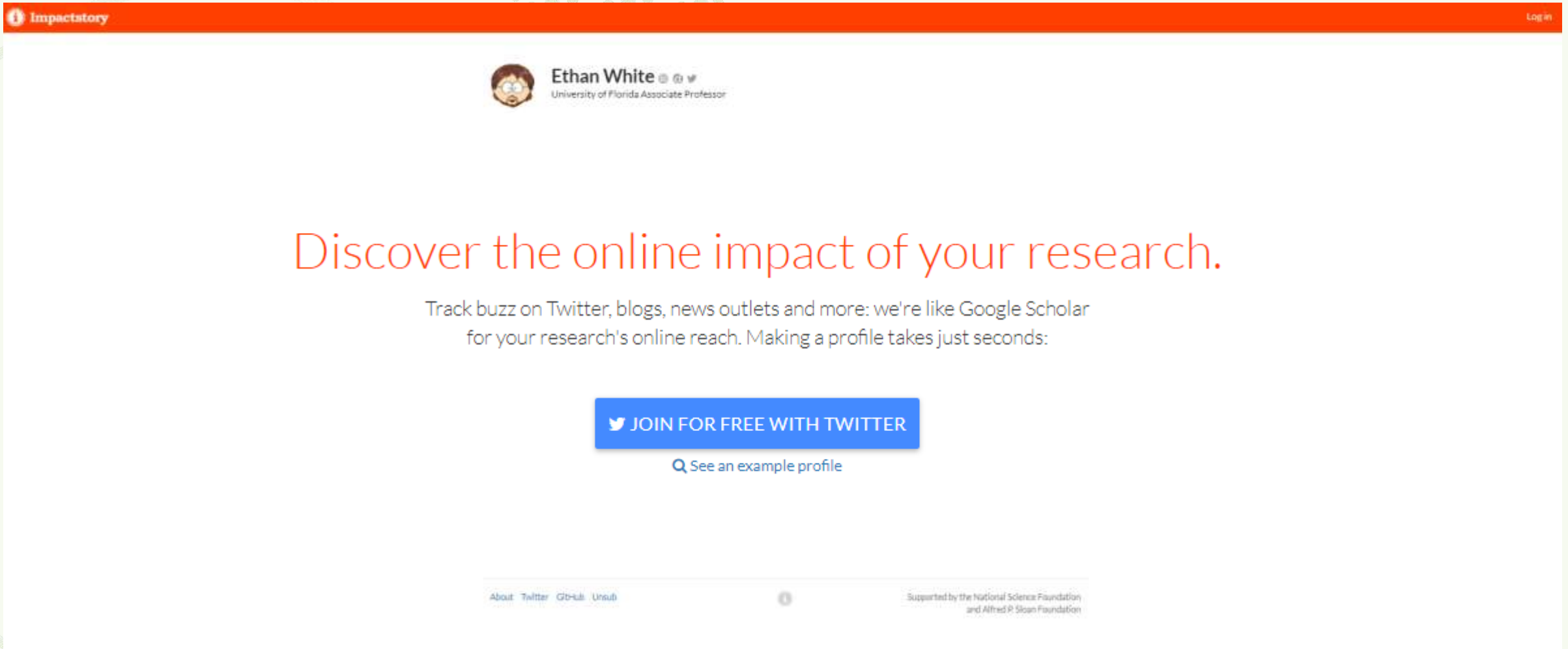

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Algorithm | Low rank | PCA | Principal component analysis | SVD | Singular value decomposition

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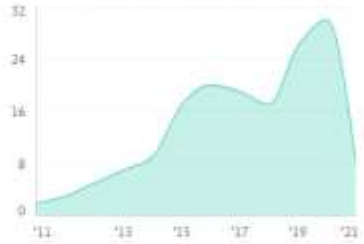
0 Citations | 5 Readers

Readers over time



Readers' Seniority

PhD / Post grad / Masters / Doc 75 — 65%
Researcher 32 — 28%
Professor / Associate Prof. 8 — 7%

Readers' Discipline

Computer Science 33 — 42%
Engineering 18 — 23%
Physics and Astronomy 16 — 20%
Mathematics 12 — 15%

דירוג אוניברסיטאות

Leiden Ranking

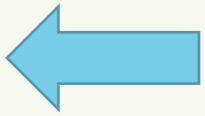
THE World University Rankings

U-Multirank

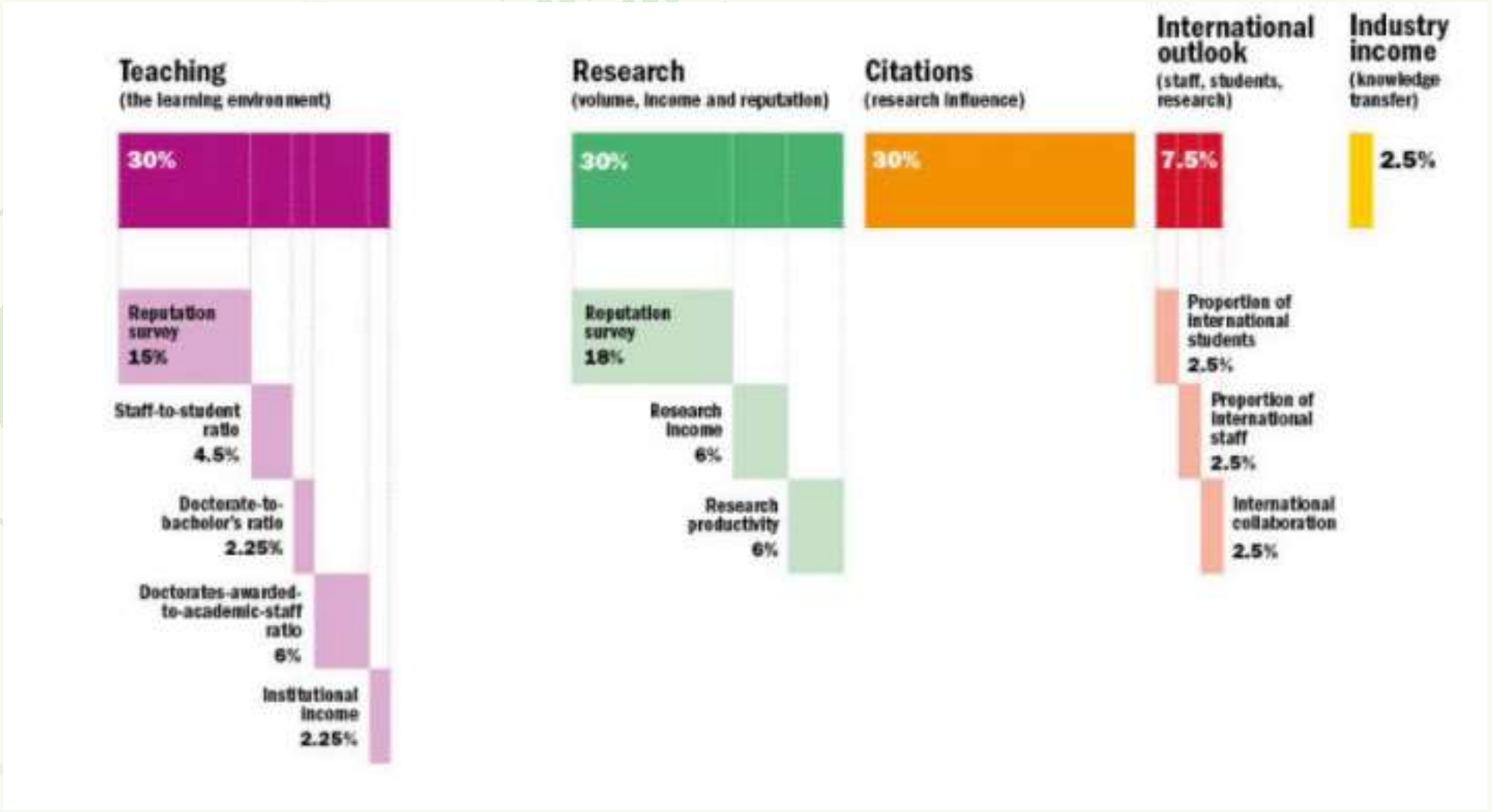
QS World University Rankings

קיימים דירוגים נוספים - ראו:
https://libguides.bodleian.ox.ac.uk/c.php?g=422992&p=2888606

Academic Ranking of World Universities (ARWU)



THE World University Rankings



QS World University Rankings

5% each

International faculty ratio/International student ratio

10%

Employer reputation

40%

Academic Reputation

20%

Citations per faculty

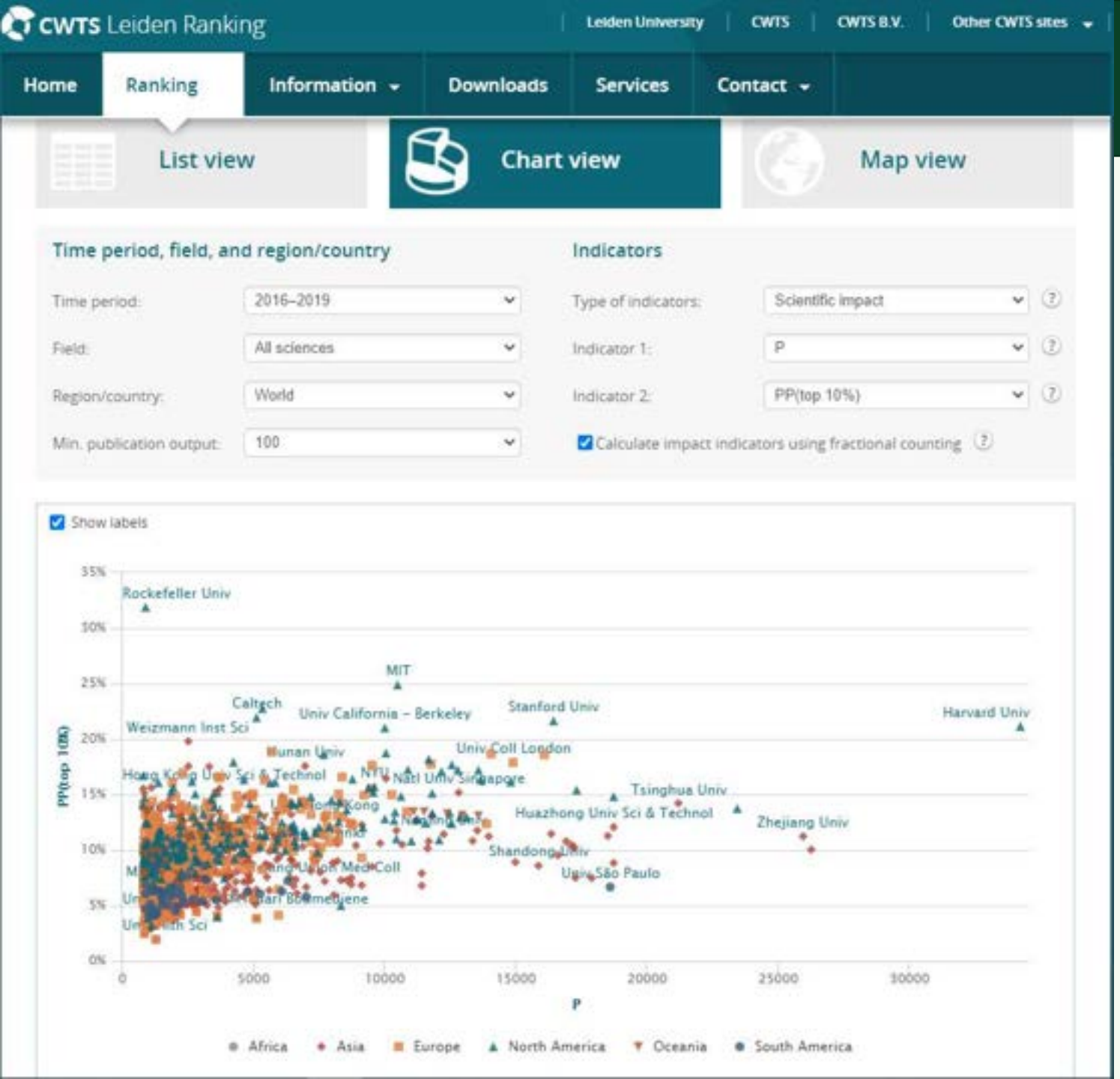
20%

Faculty/Student Ratio

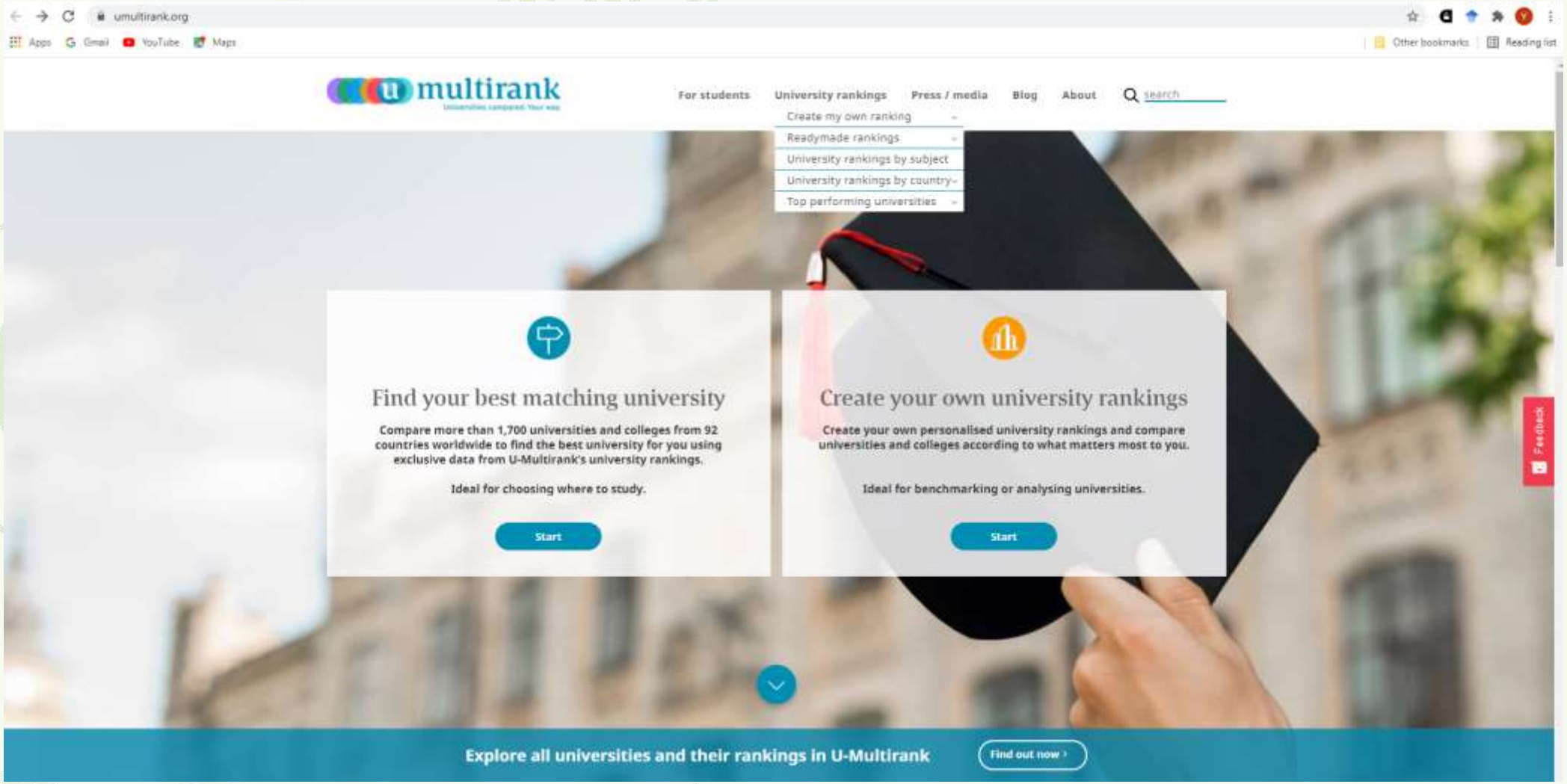
Academic Ranking of World Universities (ARWU)

Criteria	Indicator	Code	Weight
Quality of Education	Alumni of an institution winning Nobel Prizes and Fields Medals	Alumni	10%
Quality of Faculty	Staff of an institution winning Nobel Prizes and Fields Medals	Award	20%
Quality of Faculty	Highly Cited Researchers	HiCi	20%
Research Output	Papers published in Nature and Science*	N&S	20%
Research Output	Papers indexed in Science Citation Index-Expanded and Social Science Citation Index	PUB	20%
Per Capita Performance	Per capita academic performance of an institution	PCP	10%
Total			100%

Leiden Ranking



U-Multirank



קטלוג האינדיקטורים:
https://www.umultirank.org/about/methodology/indicators/

Responsible metrics:
שימוש אחראי במדדי מחקר

שימוש אתי ונאות במדדים מבוססי ציטוטים,
באלטמטריקה ואמצעים אחרים להערכת המחקר.

חל על המשתמשים במדדים או מפיקים אותם:

- חוקרים
- מממנים
- מוסדות
- מו"לים
- ארגונים המספקים מדדים

לפי:
https://libguides.ucd.ie/bibliometrics
https://libguides.hanken.fi/c.php?g=677342&p=4849504
http://www.open.ac.uk/blogs/the_orb/?p=3242

Responsible metrics:
הקדימו תרופה למכה

- שיפוט מאמר על פי כתב העת ולא על פי איכותו
- שיפור מיקום האוניברסיטאות ברשימות דירוג המשתמשות במתודולוגיות שנויות במחלוקת
- העסקה ופיטורין על סמך סף שרירותי של מדדים
- "משחק במדדים"

לפי:
http://www.open.ac.uk/blogs/the_orb/?p=3242

הרחבת נקודת המבט...

- גרנטים/מענקים שקיבל החוקר
- פרסי מחקר והצטיינות
- תפקידים במערכת של כתב עת (Editorial positions)
- חינוך ושירות לקהילה/אזרחות (Education and service)
- הנחייה ומנטורינג

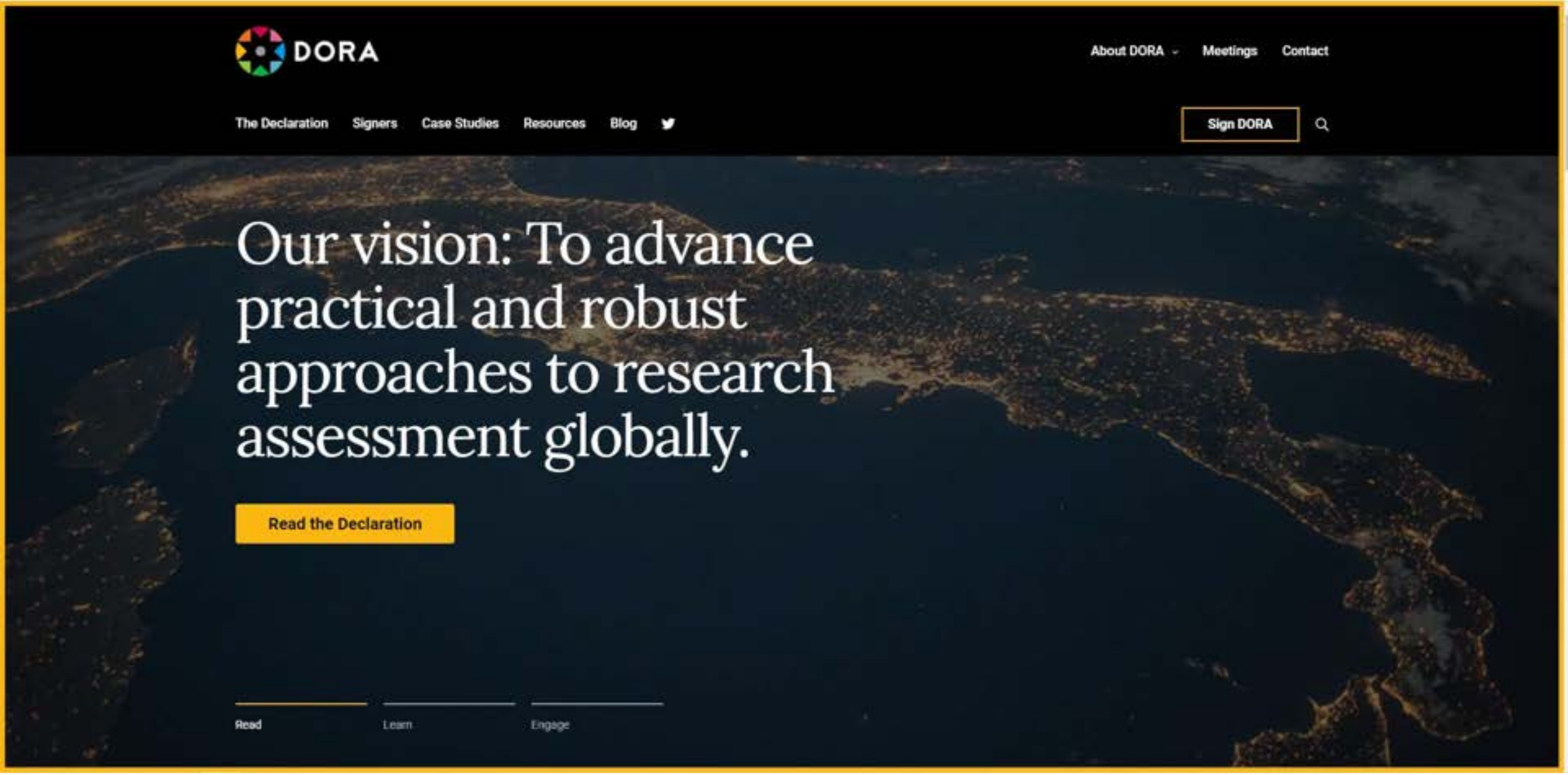
לפי:
https://libguides.ucd.ie/bibliometrics
https://libguides.nus.edu.sg/researchimpact/home

Responsible metrics: אבני דרך

San Francisco Declaration on Research Assessment (DORA)

Leiden Manifesto for Research Metrics

The Metric Tide



ההצהרה:
https://sfdora.org/read/

החותמים על ההצהרה:
https://sfdora.org/signers/

LEIDEN MANIFESTO FOR RESEARCH METRICS

Home Video version Translations Blog

10 principles to guide research evaluation with 23 translations, a video and a blog

Research evaluation has become routine and often relies on metrics. But it is increasingly driven by data and not by expert judgement. As a result, the procedures that were designed to increase the quality of research are now threatening to damage the scientific system. To support researchers and managers, five experts led by Diana Hicks, professor in the School of Public Policy at Georgia Institute of Technology, and Paul Wouters, director of CWTS at Leiden University, have proposed 10 principles for the measurement of research performance: the Leiden Manifesto for Research Metrics published as a comment in Nature.

Hicks, Wouters, Waltman, de Rijcke, Rafols, Nature, April 23, 2015

http://www.leidenmanifesto.org/

RESPONSIBLE METRICS

About | The Metric Tide | Resources | Contact Us

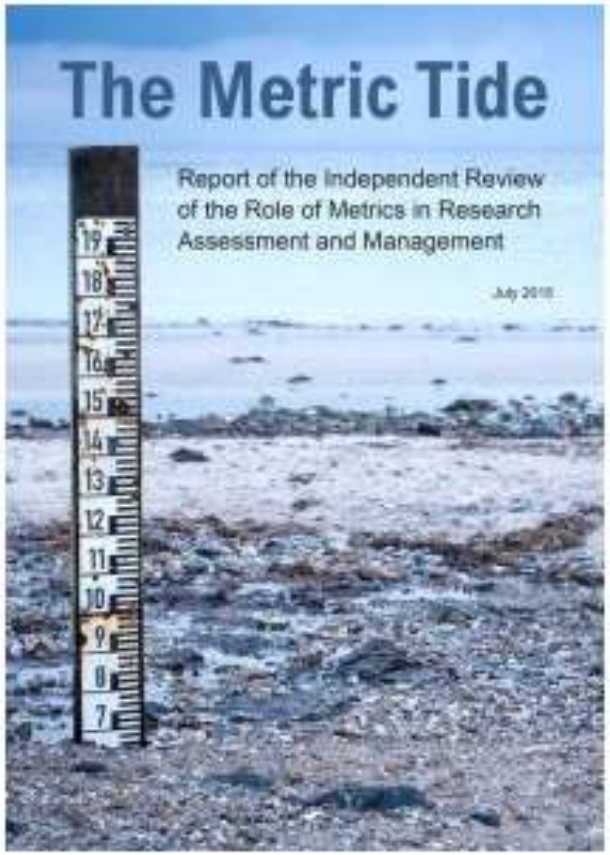
The Metric Tide

Steering group | Review scope | Media coverage

Citations, journal impact factors, h-indices, even tweets and Facebook likes – there are no end of quantitative measures that can now be used to try to assess the quality and wider impacts of research. But how robust and reliable are such metrics, and what weight – if any – should we give them in the future management of research systems at the national or institutional level?

These questions were explored over the past year by the Independent Review of the Role of Metrics in Research Assessment and Management.

The review was announced by David Willetts, then Minister for Universities and Science, in April 2014, and has been supported by the Higher Education Funding Council for England (HEFCE). It was chaired by James Wilsdon, with a multidisciplinary steering group of experts in research funding, research policy, publishing, scientometrics, university management and administration.



https://responsiblemetrics.org/the-metric-tide/

nature

https://go.nature.com/2TfGKUV

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nature › career news › article

CAREER NEWS | 25 June 2021

Impact factor abandoned by Dutch university in hiring and promotion decisions

Utrecht University in the Netherlands will judge its scholars by other standards, including

at Utrecht University in the Netherlands will judge its scholars by other standards, including their commitment to teamwork and their efforts to promote open science, says Paul Boselie,

commitment to teamwork and their efforts to promote open science,

or academic," he says. "We have a strong belief that something has to change, and abandoning the impact factor is one of those changes."

שיפור הנראות המחקרית
research visibility

- כתבו ופרסמו באופן אסטרטגי
- פרסמו בגישה פתוחה או הפקידו את הפרסום במאגר הפקדה
- שתפו את נתוני המחקר שלכם
- שתפו את עבודתכם בערוצי מדיה חברתית
- השתמשו במזהים של מחברים
- ודאו שלכל תפוקה יש מזהה ייחודי
- הציגו, השתתפו במפגשים/בכנסים, שתפו פעולה עם חוקרים אחרים
- ציינו באופן אחיד וברור את שם המוסד בפרסומים

השקופית הקודמת התבססה על המקורות הבאים:

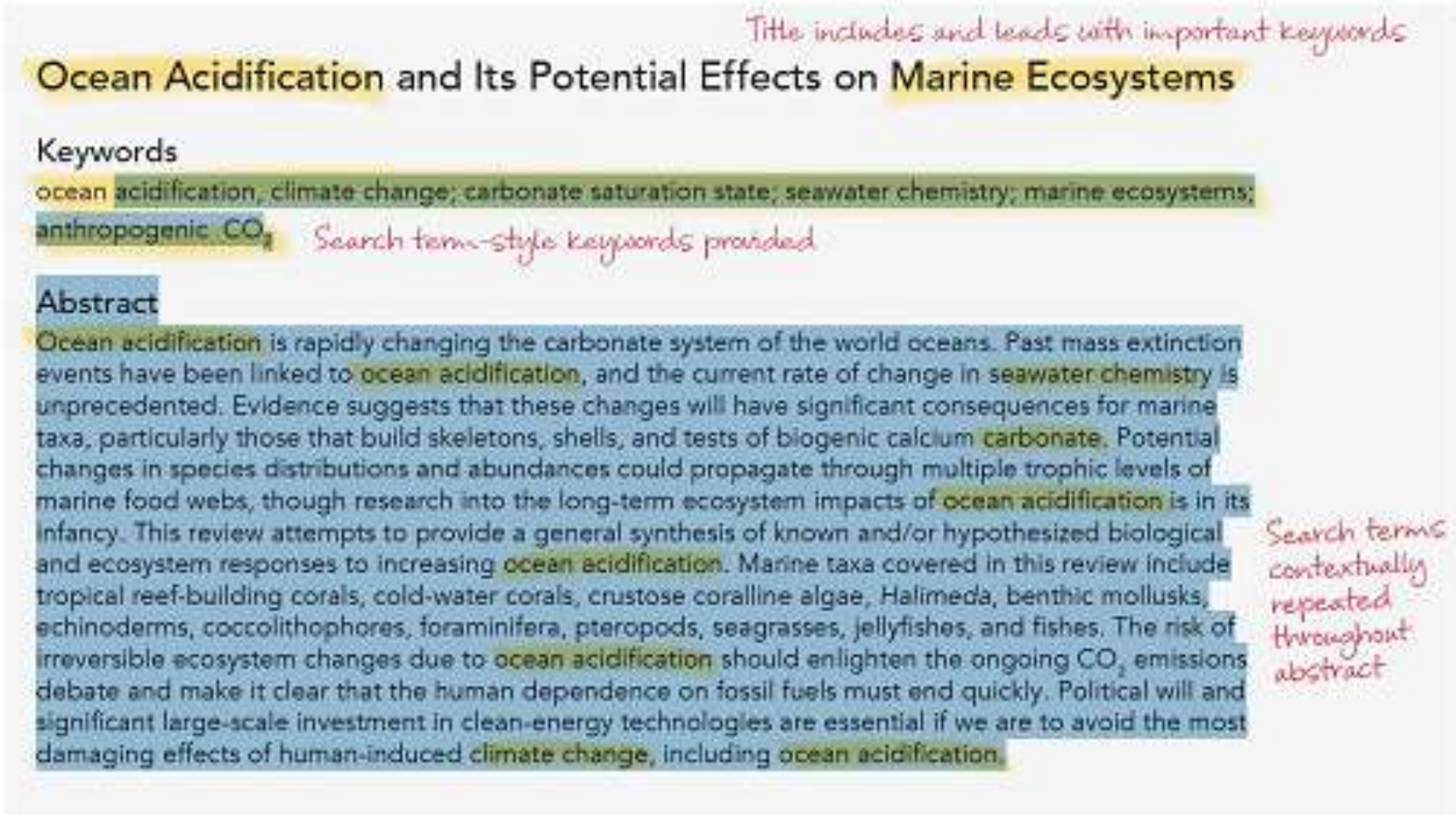
- https://libguides.nus.edu.sg/researchimpact/enhance
- https://libguides.bgu.ac.il/ScienceMetrics
- Increasing visibility and discoverability of scholarly publications with academic search engine optimization
- Schilhan, Lisa, Christian Kaier, and Karin Lackner. 2021. http://doi.org/10.1629/uksg.534
- publish or perish :https://harzing.com/download/pubtoimpact.pdf
- https://blogs.uef.fi/ueflibrary-bors/responsible-sharing/
- https://www.howcanishareit.com/

כתבו ופרסמו באופן אסטרטגי

Academic Search Engine Optimization (ASEO)

- צרו כותרת ידידותית למנועי חיפוש
- בצעו אופטימיזציה של התקציר
- ספקו מילות מפתח רלוונטיות
- הוסיפו קישורים למקורות ומאמרים אחרים

לפי:
https://libguides.nus.edu.sg/researchimpact/enhance
https://authorservices.wiley.com/author-resources/Journal-Authors/Prepare/writing-for-seo.html



https://authorservices.wiley.com/author-resources/Journal-Authors/Prepare/writing-for-seo.html

שימוש מיטבי במילות מפתח

- יש לכלול מילות מפתח בכותרת (1-2), בתקציר (2-3) ובמילות המפתח (5-7)
- ניתן למצוא מילות מפתח ספציפיות באמצעות:
  - מאגרי מידע
  - Google Trends
  - Google Adwords
- השתמשו במילות מפתח התואמות את התחום שלכם
- תנו למילות המפתח לזרום באופן טבעי ובאופן שיש לו הקשר
- הימנעו מ- *keyword stuffing*

לפי:

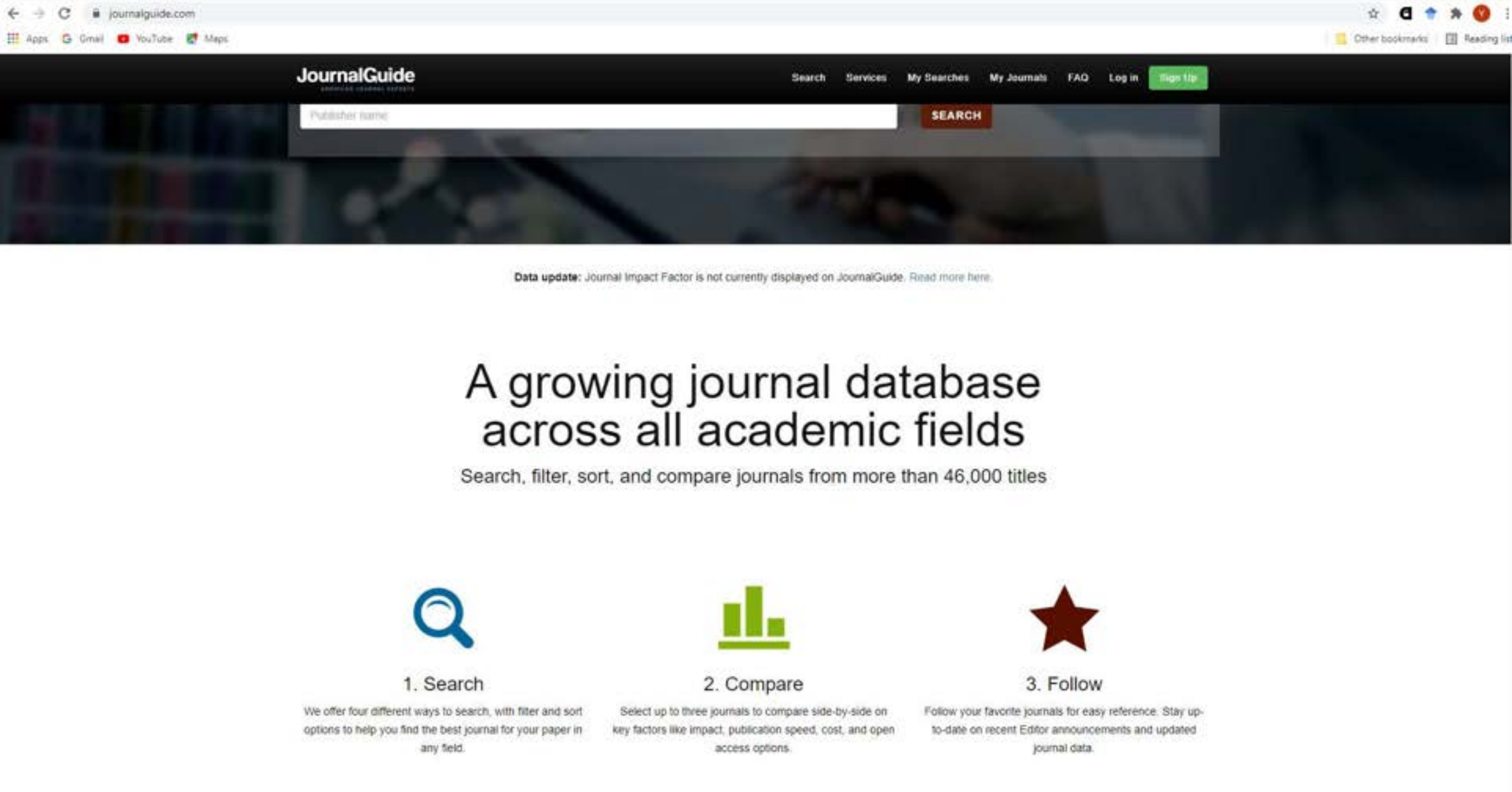
https://authorservices.wiley.com/author-resources/Journal-Authors/Prepare/writing-for-seo.html
https://medium.com/trapica/tools-for-seo-google-keyword-planner-vs-google-trends-4703e0cbacc5

בחרו את כתב העת הנכון

- שימוש במדדים ברמת כתבי עת
- Specialized journals
- פרסום בכתבי עת בגישה פתוחה
- היזהרו מכתבי עת טורפים!
  - https://lib.biu.ac.il/OpenAccess
  - https://lib.biu.ac.il/node/2092

לפי:
https://libguides.nus.edu.sg/researchimpact/enhance

https://www.journalguide.com/



מעקב אחר המחקר שבצעתם

הגדרו התראות ציטוטים לפרסומים שלכם ב:

- Scopus
- Web of Science
- Google Scholar

השתמשו במדדים חלופיים (Altmetrics) כדי לעקוב אחר השפעת המחקר שלכם

לפי:
https://libguides.ucd.ie/bibliometrics
https://beckerguides.wustl.edu/authors/trackyourwork

תחזוקת פרופילים של המחבר

Scopus Author ID

ORCID
Connecting Research and Researchers

Google Scholar Profile

Publons / ResearcherID

https://lib.biu.ac.il/node/1634

דאגו לקדם את המחקר שלכם

- כתיבת הודעה לתקשורת (media release)
- פרסום המאמר דרך ערוצי האוניברסיטה
- בדיקת האפשרויות לקידום המאמר באמצעות המו"ל
- העלאת הפרסומים למאגרים מוסדיים ונושאיים:
  - מערך הספריות והמידע
  - OpenDOAR
  - Sherpa/Romeo

- שתפו את הפרסומים שלכם בצורה אחראית:
  https://blogs.uef.fi/ueflibrary-bors/responsible-sharing/

לפי:
https://libguides.nus.edu.sg/researchimpact/enhance
https://pitt.libguides.com/researchvisibility
https://www.howcanishareit.com/

שיתוף תפוקות מסוגים שונים במאגרים שונים:

- נתוני מחקר
- תרשימים
- מדיה/וידאו
- פוסטרים
- מצגות
- קוד

מעורבות ברשתות חברתיות

LinkedIn

facebook

Academia.edu

ResearchGate

Mendeley

בלוגים ומיקרו בלוגים

תודה רבה!