

The role of altmetric indicators in the promotion of scientific achievements

Małgorzata Kowalska-Chrzanowska

Institute of Information and Communication Research, Nicolaus Copernicus University in Toruń
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Agenda

1. Scientific achievement and its assessment
2. Bibliometric indicators
3. Altmetric indicators
4. Altmetric data aggregators
5. The use of altmetrics – case studies

Scientific achievements in the light of Polish law regulations

Scientific achievements – the various outputs and activities created or executed by scholars and investigators in the course of their academic and/or research efforts.

Polish regulations:

- *Act of 14 March 2003 on the Academic Degrees and Title and Degrees and Title in the Arts*, "Journal of Laws of the Republic of Poland" 2003, no. 65, item 595;
 - *Regulation of the Minister of Science and Higher Education of 17 October 2007 on the criteria and procedure for granting and settling funds for statutory activities*, "Journal of Laws of the Republic of Poland" 2007, no. 205, item 1489;
 - *Act of 20 July 2018, The Law on Higher Education and Science*, "Journal of Laws of the Republic of Poland" 2018, item 1668;
 - *Regulation of the Minister of Science and Higher Education of 22 February 2019 on the evaluation of the quality of scientific activities*, "Journal of Laws of the Republic of Poland" 2019, item 392;
 - *Act of 13 January 2023 to amendment of the act The Law on Higher Education and Science*, "Journal of Laws of the Republic of Poland" 2019, item 212.
- +
- Institutional criteria for evaluating scientific achievements and promotion procedures.

- "scientific or artistic achievements";
- "original construction, design or artistic achievements";
- "serious teaching achievements";
- "excellent scientific achievements";
- "work of art of considerable importance";
- "unique achievements";
- "outstanding achievements".



Scientific achievements in evaluation process

"By scientific achievements it is meant:

- 1) scientific articles published in scientific journals and in peer-reviewed materials from international scientific conferences, included in the list of such journals and materials prepared in accordance with the regulations issued by the Minister of Science and Higher Education,
- 2) scientific articles published in scientific journals not included in the list of journals,
- 3) scientific monographs issued by publishers included in the list of such publishers prepared in accordance with the regulations issued by the Minister of Science and Higher Education, scientific editing of such monographs and chapters in such monographs,
- 4) scientific monographs issued by publishers not included in the list of publishers, scientific editing of such monographs and authorship of chapters in such monographs,
- 5) granted patents for inventions, protection rights for utility models".



Regulation of the Minister of Science and Higher Education of 22 February 2019 on the evaluation of the quality of scientific activities, "Journal of Laws of the Republic of Poland" 2019, item 392

Scientific achievements in promotion procedures

"A **degree of doktor** shall be awarded to an individual who has at least:

- a) 1 scientific article published in a scientific journal or in conference proceedings which, in the year of publication of the article in its final form, were included in a list of Minister of Science and Higher Education, **or**
- b) 1 scientific monograph issued by a publishing house which, in the year of publication of the monograph in its final form, was included on a list of Minister of Science and Higher Education, **or** a chapter in such a monograph, **or**
- c) a work of art of considerable importance.

A **degree of doktor habilitowany** shall be awarded to an individual who:

- 1) possesses scientific or artistic achievements that constitute a significant contribution to the development of a particular discipline, including at least:
 - a) 1 scientific monograph issued by a publishing house which, in the year of publication of the monograph in its final form, was included on a list of Minister of of Science and Higher Education **or**
 - b) 1 series of thematically related scientific articles published in scientific journals or reviewed materials from international conferences, which, in the year of publication of the article in its final form, were included in a list of Minister of Science and Higher Education, **or**
 - c) 1 design, construction, technological or artistic unique achievement accomplished;
- 2) shows significant scientific or artistic activity carried out in more than one higher education institution, academic or cultural institution, in particular foreign one.

The **title of professor** may be awarded to a person who:

- 1) holds outstanding scientific achievements at home or abroad,
- 2) participated in the works of research teams implementing projects financed through national or foreign competitions, or completed scientific internships in scientific institutions, including foreign ones, or conducted research or development works in higher education institutions or scientific institutions, including foreign ones".



Act of 20 July 2018, The Law on Higher Education and Science, "Journal of Laws of the Republic of Poland" 2018, item 1668

Scientific achievements in institutional criteria

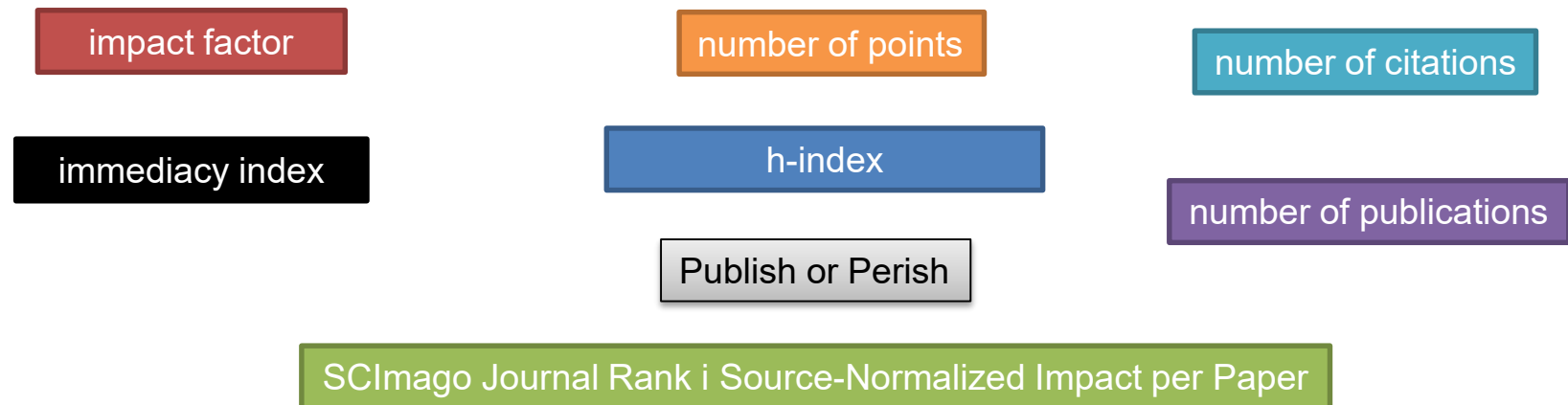
POSITION	MINIMUM CRITERIA	PROMOTION CRITERIA	DISTINCTIVE CRITERIA
	Minimum requirements to obtain a positive grade for scientific work in a given position	Requirements that must be met in order to be promoted between positions or to apply for a degree in social communication and media sciences at the Nicolaus Copernicus University	Criteria constituting a premise for awarding prizes; with the assumption that the decision to award prizes is made by a committee, based on one or more of the achievements indicated below
ASSISTANT	<p>Obtaining a sum of points not less than 60 for 3 publication slots (including in the slots a maximum of one monograph* and one editorial of a collective work published in a publishing house on the list of the Ministry of Science and Higher Education AND at least one article in a journal from the list of the Ministry of Science and Higher Education).</p> <p>*in the case of a monograph published in a publishing house classified as level II in the list of the Ministry of Science and Higher Education (for 200 points), the author has the option of submitting a second monograph in the next slot</p>	<p>In addition to defending a doctoral dissertation, obtaining the sum of points not less than 120 for 3 publication slots (including in the slots a maximum of one monograph* and one editorial of a published collective work AND at least one article in a journal from the list of the Ministry of Science and Higher Education).</p> <p>*in the case of a monograph published in a publishing house classified as level II in the list of the Ministry of Science and Higher Education (for 200 points), the author has the option of submitting a second monograph in the next slot</p>	<p>Obtaining a sum of points not less than 100 for 3 publication slots (including in the slots a maximum of one monograph* and one edition of a collective work in a publishing house listed by the Ministry of Science and Higher Education AND at least one article in a foreign journal from the list of the Ministry of Science and Higher Education indexed in Q1 and Q2 of the Web of Science or Scopus) AND</p> <ol style="list-style-type: none"> 1. acting as a manager in a university, national or international grant (only from scientific institutions) 2. or participation in a national or international grant as a contractor (only from scientific institutions) 3. or publication of a monograph, edition or translation in a level II publishing house included in the currently valid list of publishing houses of the Ministry of Science and Higher Education publishing peer-reviewed scientific monographs, 4. or a documented large impact on the development of science on a national or international scale in the form of prestigious scientific awards, a large number of citations, etc. <p>*in the case of a monograph published in a publishing house classified as level II in the list of the Ministry of Science and Higher Education (for 200 points), the author has the option of submitting a second monograph in the next slot</p>

Evaluation criteria for research and teaching employees (scientific dimension) in the field of communication and media studies at the Nicolaus Copernicus University

Bibliometric indicators

Bibliometric – a set of mathematical and statistical methods used to analyze and measure the quantity and quality of books, articles, and other forms of publications, especially in scientific contents.

There are three types of bibliometric indicators: quantity indicators, which measure the productivity of a particular researcher; quality indicators, which measure the quality (or "performance") of a researcher's output; and structural indicators, which measure connections between publications, authors, and areas of research.



Main bibliometric data sources are Scopus and Web of Science databases.

Advantages of bibliometric indicators



They are a quantitative way of measuring your research impact, so are seen as objective.



The procedure is transparent and results can be reproduced using the same method.



They are inexpensive to produce and use.



They take relatively little time to produce and use.



They are scalable. You can look at bibliometrics on an individual, institutional, national or international level.



They are support for the universities deans in making personnel decisions.



They are support for the librarians in purchase of periodicals.

Disadvantages of bibliometric indicators



Metrics distinguish between what is cited and what is not cited, not what is necessarily of good quality.



It is perfectly possible for articles to be cited a lot but for negative reasons.



Metrics can be gamed i.e. exploited by researchers and journals to artificially boost their bibliometric scores.



Bibliometrics skew research by encouraging people to write papers they think will be cited more, not what is valuable in research terms.



Variations between areas of study need taking into account as publication frequency and citation cultures differ.

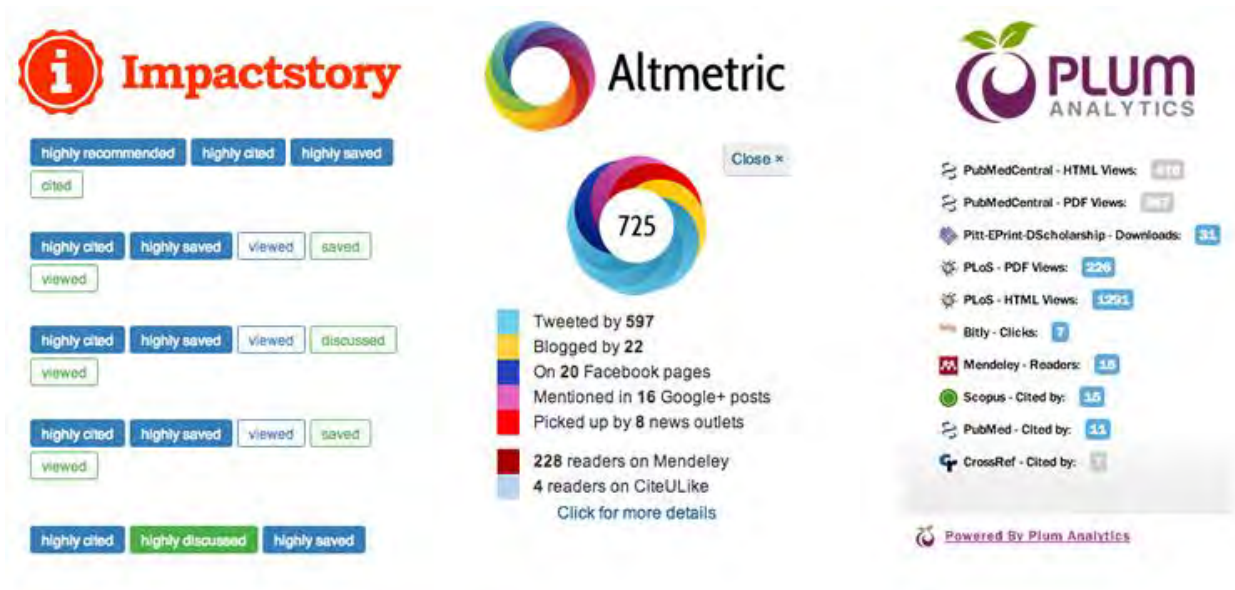


Some indicators are used for purposes other than those intended.



They have little use in the humanities and social sciences.

Altmetrics – an alternative to bibliometrics?



What is altmetric?

- broader perspective – non-traditional bibliometrics proposed as an alternative or complement to more traditional citation impact metrics, they can be applied to people, journals, books, data sets, presentations, videos, source code repositories, web pages, etc.
- narrower perspective – *article-level metrics (ALM)* – citation metrics which measure the usage and impact of individual scholarly articles.

altmetrics = **alternative metrics**

Reasons for interest on altmetrics

- The volume of academic literature explodes;
- In growing numbers, scholars are moving their everyday work to the web;
- Citation counting measures are useful, but not sufficient;
- Traditional metrics are narrow; they neglect impact outside the academy, and also ignore the context and reasons for citation.
- 2010 r. article *Altmetrics: a manifesto* (Jason Priem, Dario Taraborelli, Paul Groth i Cameron Neylon):
 - Altmetrics expand our view of what impact looks like, but also of what's making the impact. This matters because expressions of scholarship are becoming more diverse;
 - Altmetrics are themselves diverse, they're great for measuring impact in diverse scholarly ecosystem;
 - Altmetrics are fast, using public APIs to gather data in days or weeks. They're open—not just the data, but the scripts and algorithms that collect and interpret it.;
 - Altmetrics look beyond counting and emphasize semantic content like usernames, timestamps, and tags;
 - Altmetrics aren't citations, nor are they webometrics; although these latter approaches are related to altmetrics, they are relatively slow, unstructured, and closed.

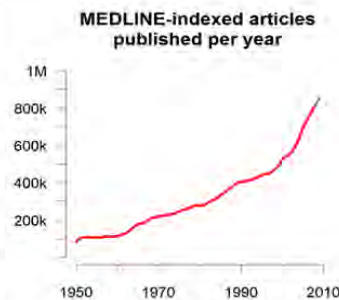
altmetrics

altmetrics: a manifesto

NO ONE CAN READ EVERYTHING. We rely on filters to make sense of the scholarly literature, but the narrow, traditional filters are being swamped. However, the growth of new, online scholarly tools allows us to make new filters; these altmetrics reflect the broad, rapid impact of scholarship in this burgeoning ecosystem. We call for more tools and research based on altmetrics.

As the volume of academic literature explodes, scholars rely on filters to select the most relevant and significant sources from the rest. Unfortunately, scholarship's three main filters for importance are failing:

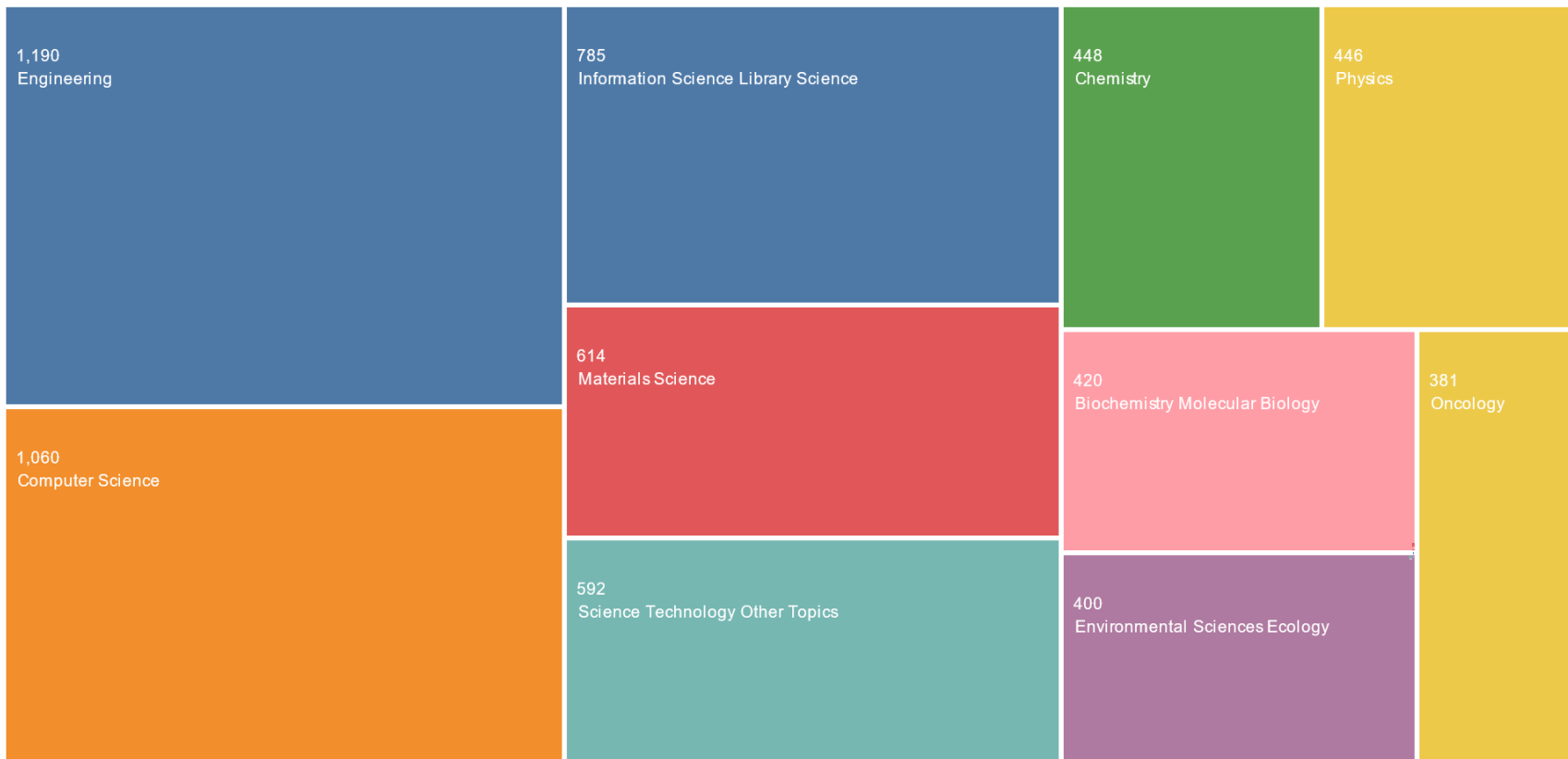
- Peer-review has served scholarship well, but is beginning to show its age. It is slow, encourages conventionality, and fails to hold reviewers accountable. Moreover, given that most papers are eventually published somewhere, peer-review fails to limit the volume of research.
- Citation counting measures are useful, but not sufficient. Metrics like the h-index are even slower than peer-review: a work's first citation can take years. Citation measures are narrow; influential work may remain uncited. These metrics are narrow; they neglect impact outside the academy, and also ignore the context and reasons for citation.
- The JIF, which measures journals' average citations per article, is often incorrectly used to assess the impact of individual articles. It's troubling that the exact details of the JIF are a trade secret, and that significant gaming is relatively easy.



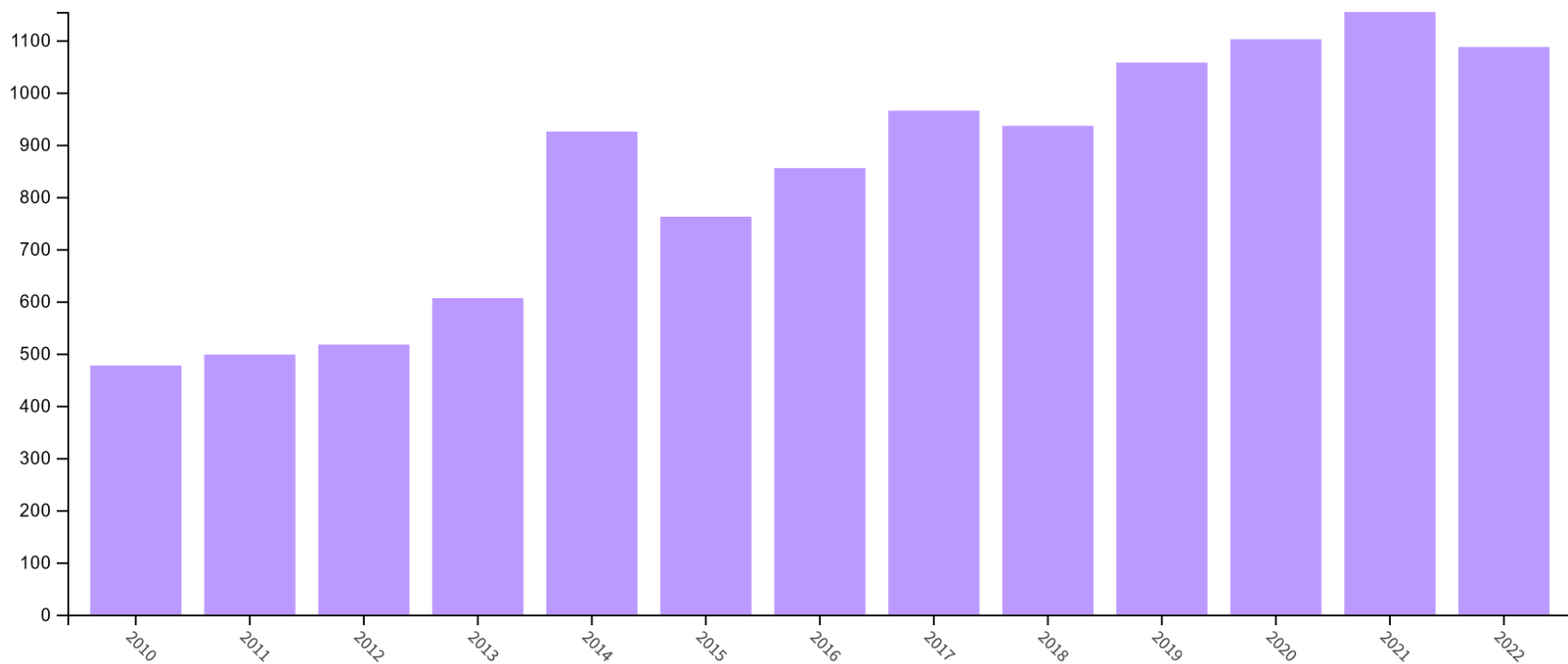
Priem J., Taraborelli D., Groth P., Neylon C., [Altmetrics: A manifesto](#), 26 October 2010. <http://altmetrics.org/manifesto>

„altmetrics OR «article level metrics» OR ALM” AND 2010-2022 → **10,941 publications**

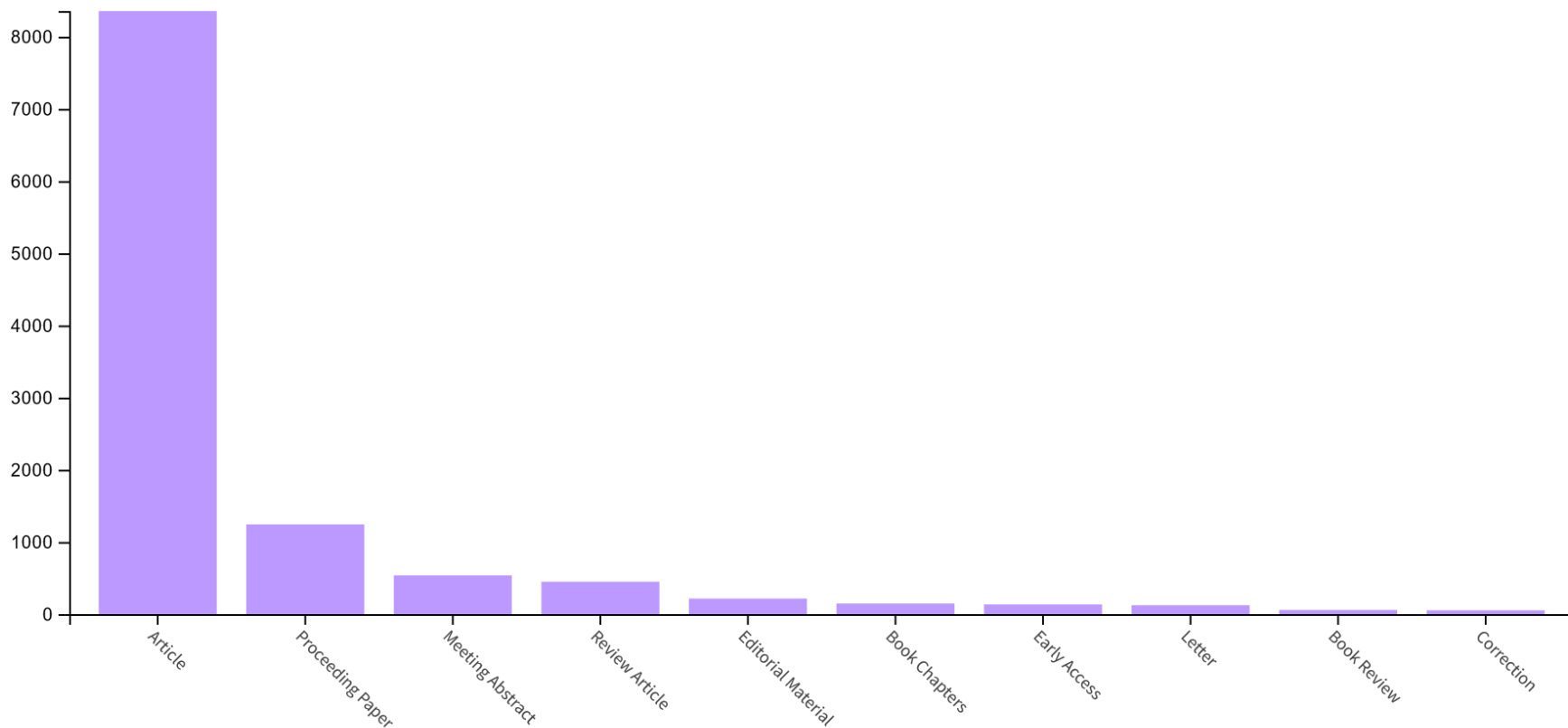
Research areas



Date of publication



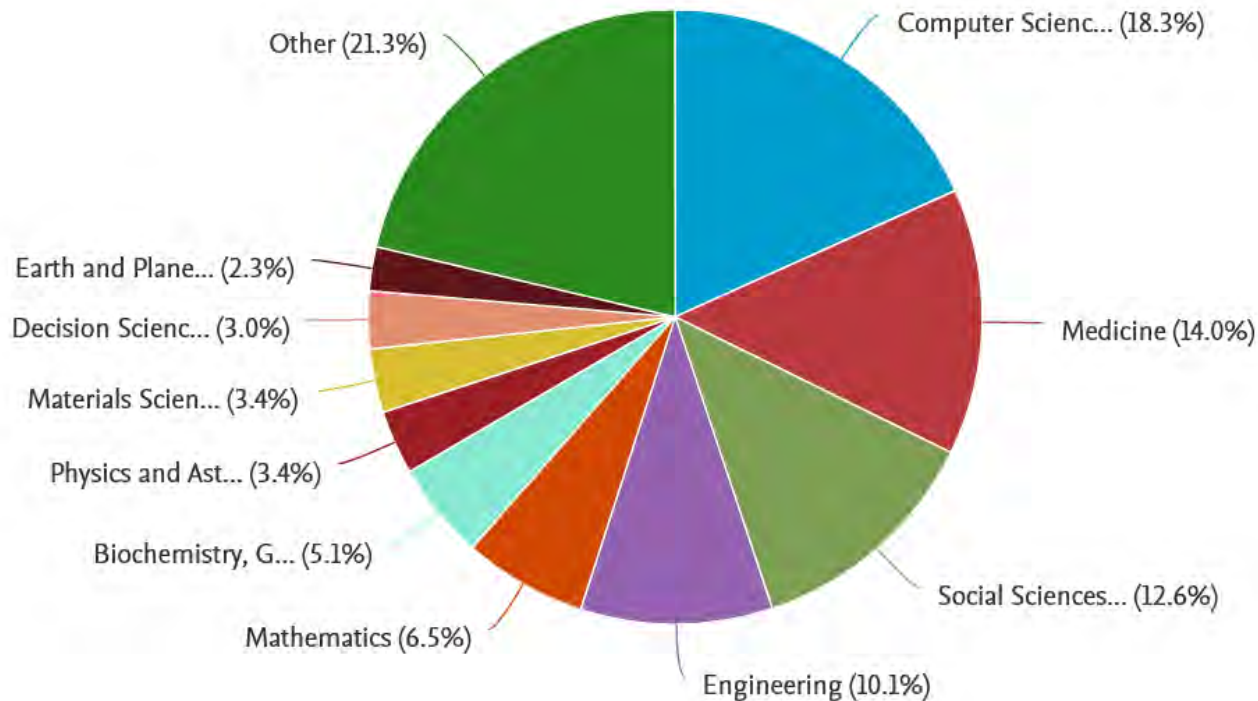
Types of publications



Altmetrics in the light of Scopus resources

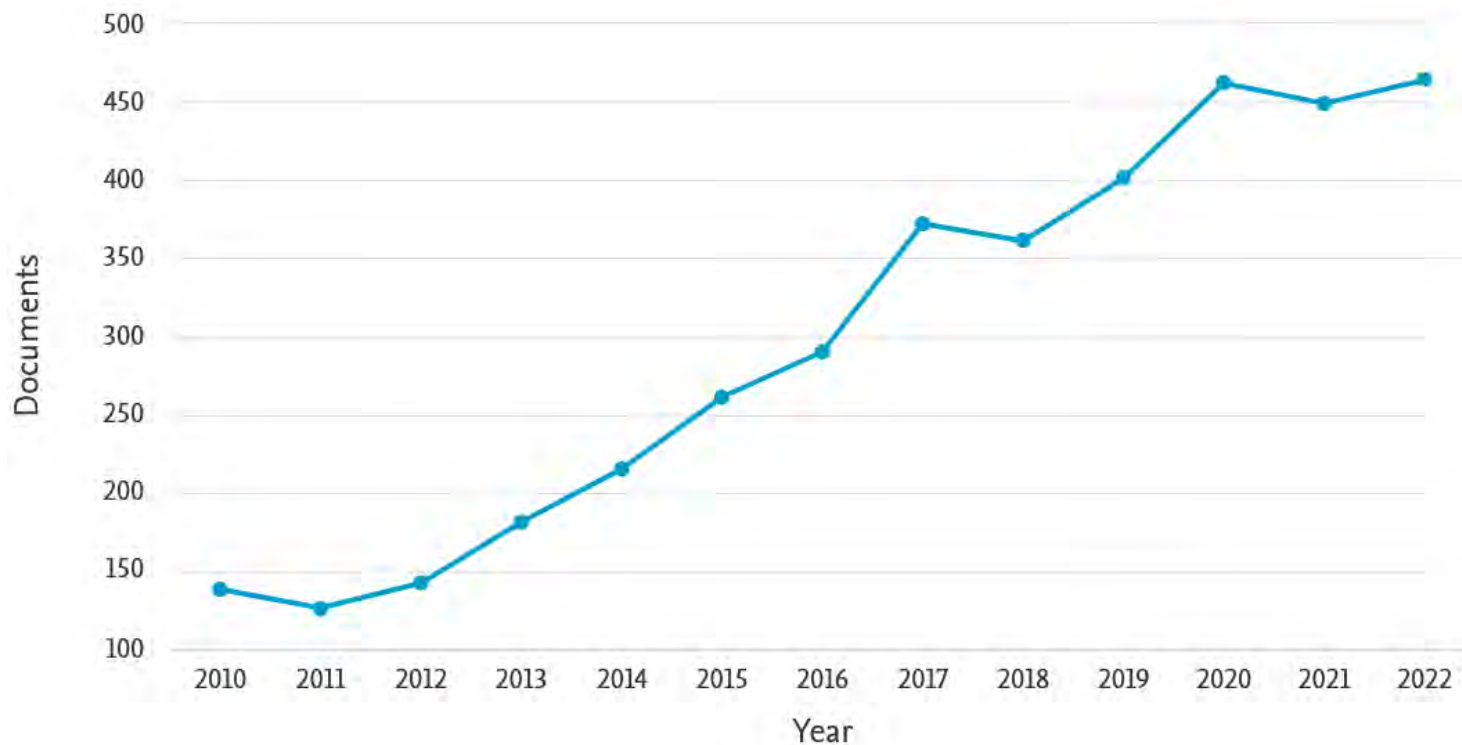
„altmetrics OR «article level metrics» OR ALM” AND 2010-2022 → **3,862 publications**

Research areas

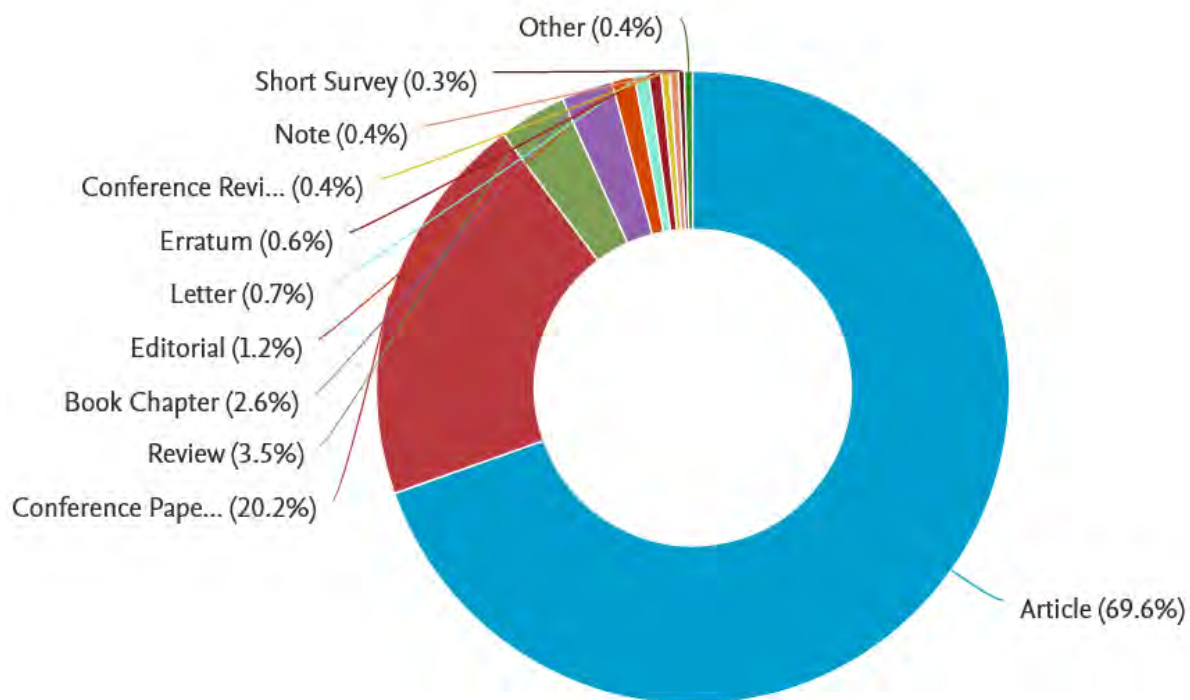


Altmetrics in the light of Scopus resources

Date of publication



Types of publications



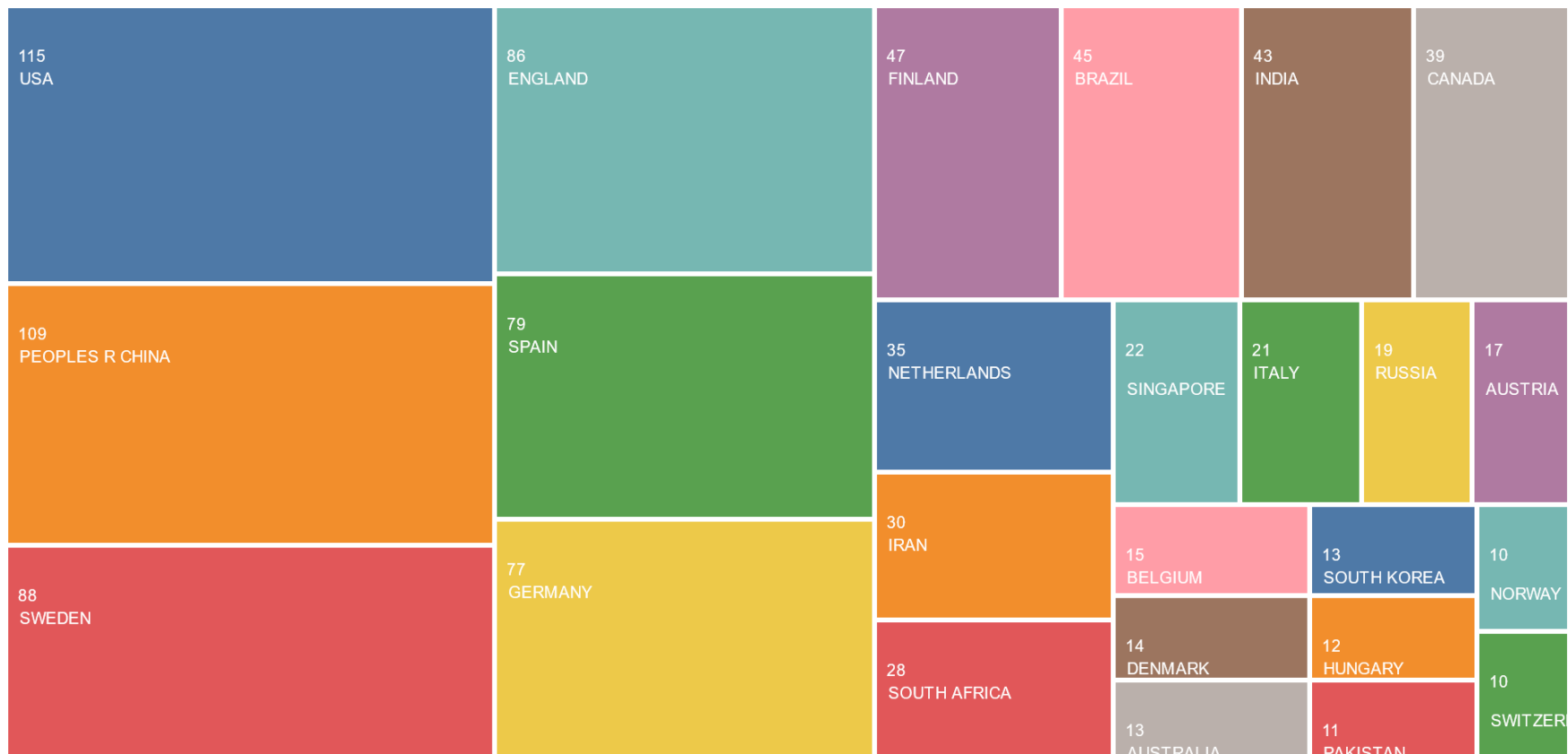
Altmetrics in area of *library and information science*

Web of Science (735 publications) – Sources of publications



Altmetrics in area of *library and information science*

Web of Science (735 publications) – Affiliations of authors



Altmetrics in area of *library and information science*

Web of Science (735 publications) – Most popular authors



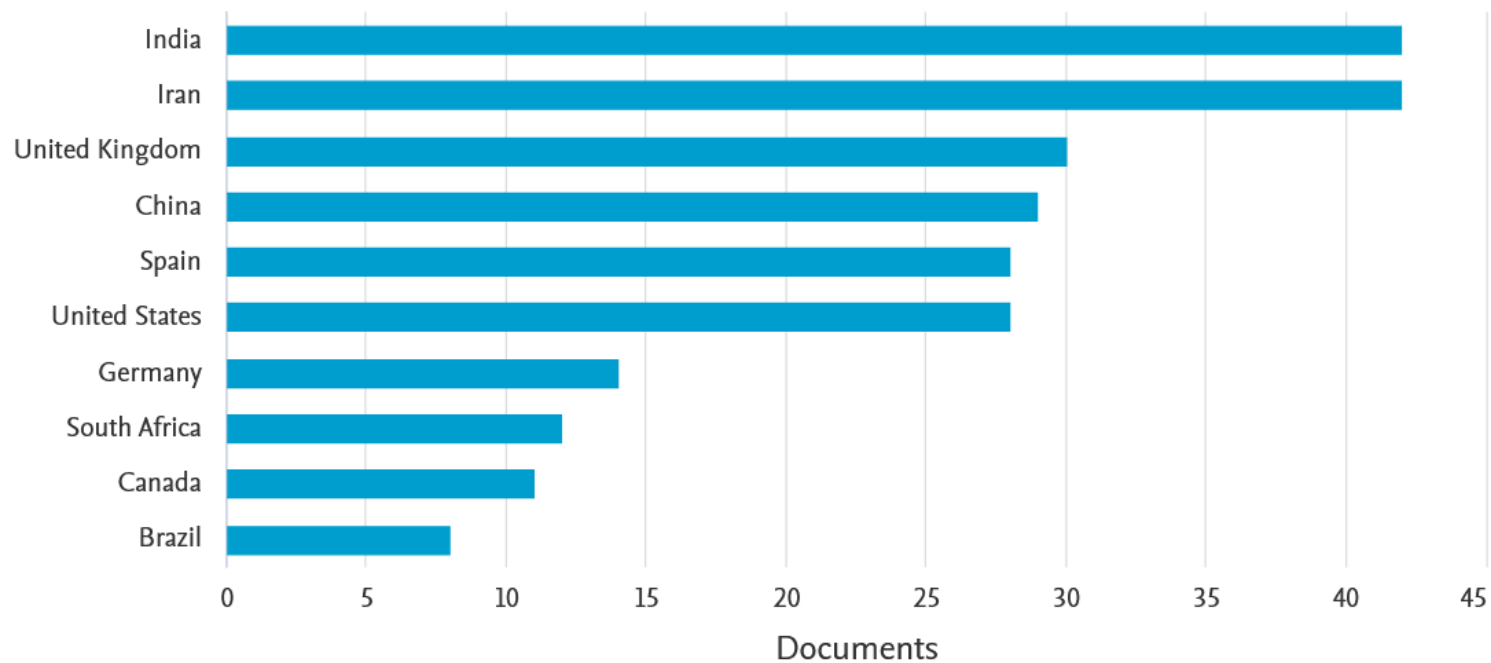
Altmetrics in area of *library and information science*

Scopus (268 publications) – Sources of publications

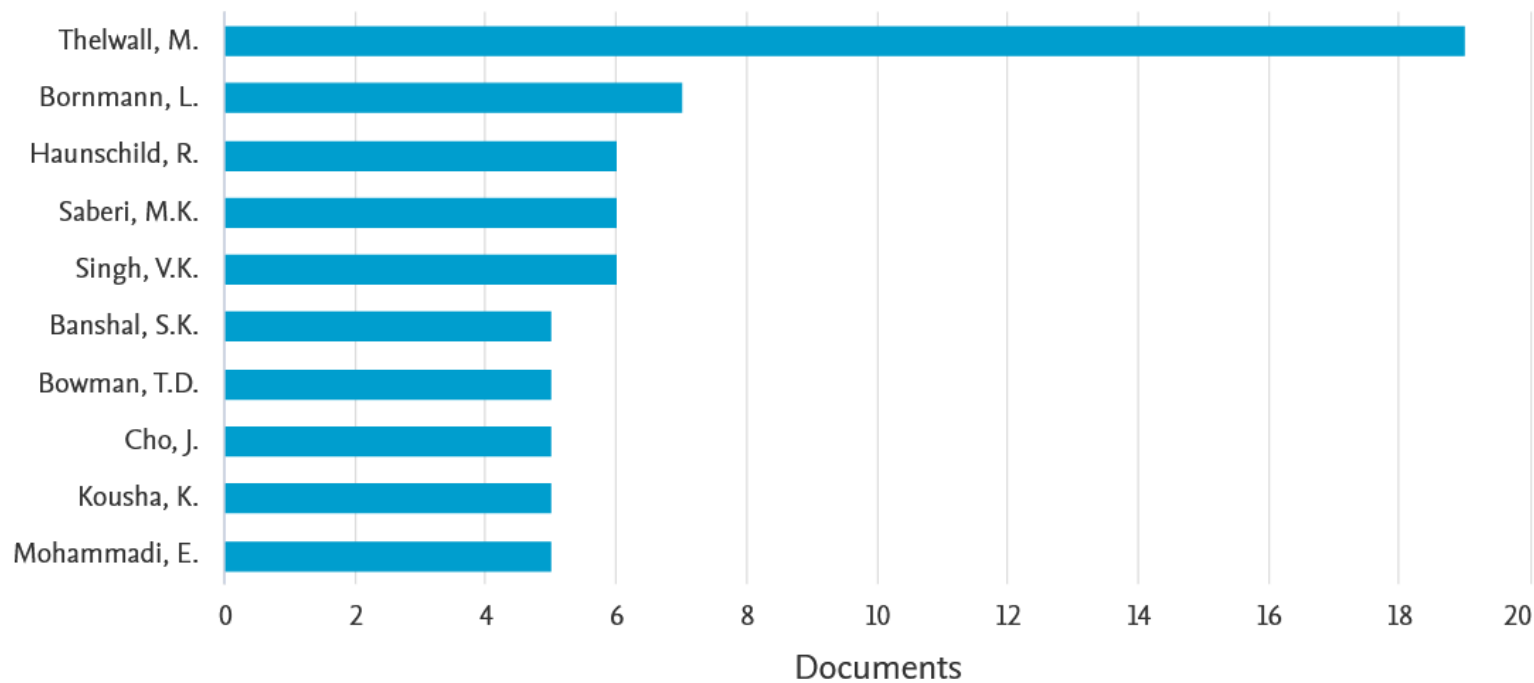
<input type="checkbox"/>	Scientometrics	48
<input type="checkbox"/>	Library Philosophy And Practice	15
<input type="checkbox"/>	Journal Of Informetrics	10
<input type="checkbox"/>	Global Knowledge Memory And Communication	9
<input type="checkbox"/>	International Journal Of Information Science And Management	8
<input type="checkbox"/>	Profesional De La Informacion	6
<input type="checkbox"/>	Journal Of Scientometric Research	5
<input type="checkbox"/>	Journal Of The Association For Information Science And Technology	5
<input type="checkbox"/>	Library Hi Tech	5

Altmetrics in area of *library and information science*

Scopus (268 publications) – Affiliations of authors

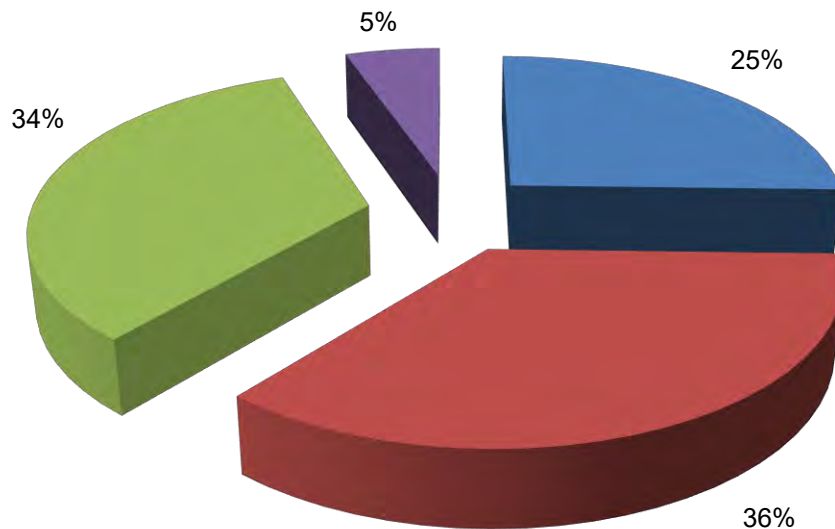


Scopus (268 publications) – Most popular authors



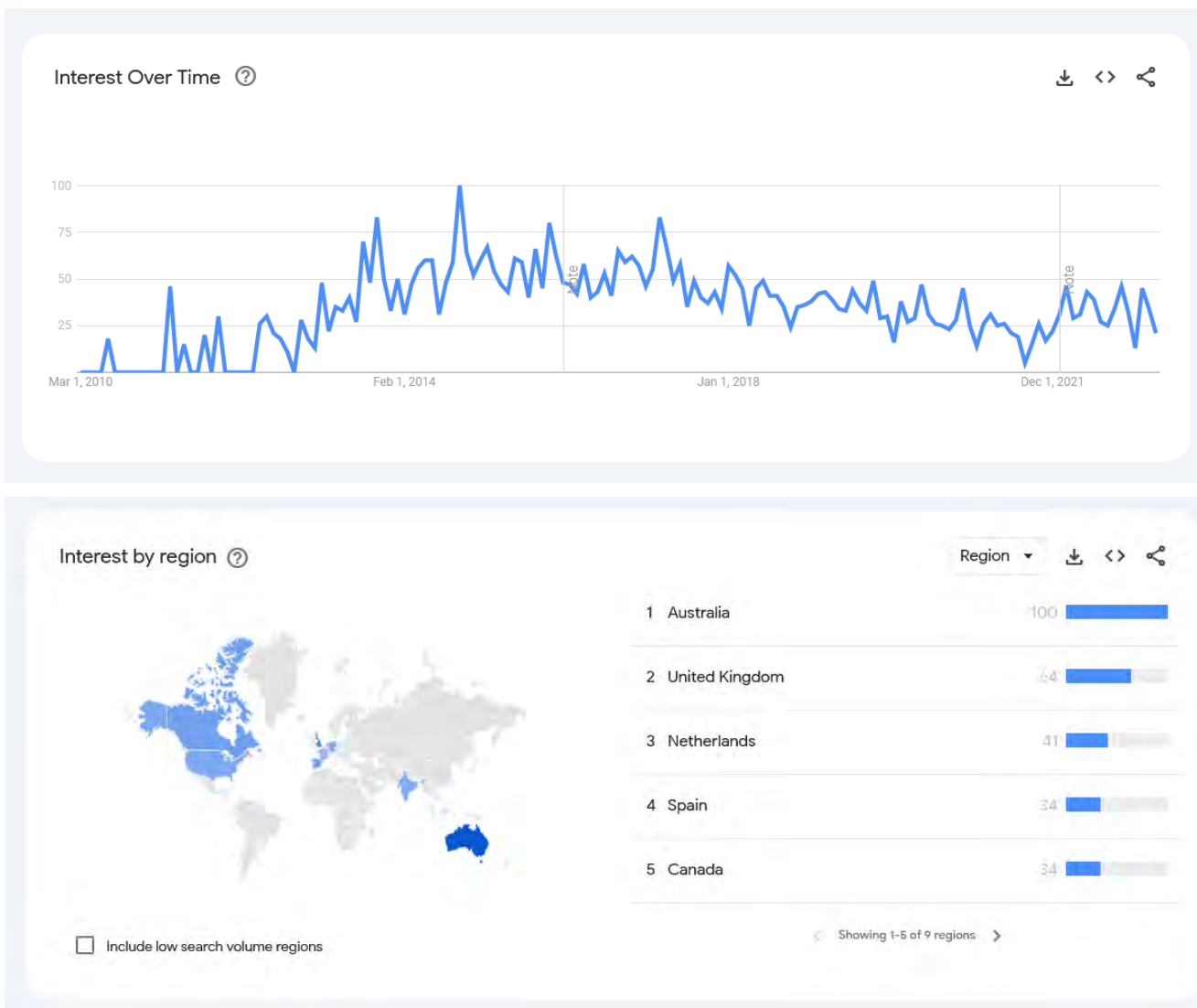
Articles about altmetric in „Scientometrics”

244 articles – 4 subject areas



- area 1: general issues introducing a new type of metrics
- area 2: research on the existence of correlations between altmetrics and traditional indicators
- area 3: functionality and usability of applications, services, platforms aggregating altmetrics
- area 4: normalization of altmetrics

Altmetrics in the light of Google resources



Types of altmetrics

Source	Types of altmetrics
Blogs	mentions
CiteULike	bookmarks
EBSCO	citations
	exports/saves
	views
	downloads
	supporting data views
	full text views
	HTML views
	PDF views
F1000	abstracts views
	reviews
Facebook	comments
	likes
	shares
Figshare	views
	downloads
	recommendations
GitHub	watchers
	downloads
	collaborators
	followers
	forking

Types of altmetrics

Source	Types of altmetrics
Goodreads	reviews
	ratings
	readers
Mendeley	readers
PLoS	full text views
	HTML views
	PDF views
	abstracts views
SlideShare	comments
	views
	downloads
	bookmarks
ResearchGate	citations
	h-index
	reads
	research items
	networking
	projects: total followers, total reads
	profile views
	followers
	followers, following
	RG score
Twitter	tweets
	shares
	comments
	likes
	profile views
	engagement (click tracking)

Altmetrics tools





Altmetrics tools: Altmetric Explorer

- Tool created by Digital Science (integrated with Clarivate, Wiley, Smithsonian products);
- Altmetric Explorer allows users to search the Altmetric database;
- The number inside the colored circle (also called badge or donut) is the Altmetric Attention Score for the output being viewed;
- The score is derived from an automated algorithm, and represents a weighted count of the amount of attention;
- The Altmetric Attention Score always has to be a whole number. This means that mentions that contribute less than 1 to the score sometimes get rounded up to one;
- It monitors the following sources for mentions of research outputs: online reference managers (Mendeley), Wikipedia, citations indexes (Web of Science), social media (Twitter, Facebook), social bookmarking services (CiteULike), post-publication peer-review platforms (Publons), blogs, multimedia platforms (YouTube) community forums (Reddit) and other platforms (F1000, FigShare);
- The Research Outputs Tab displays the list of research outputs that are contained within a given search query;
- Mentions can be filtered by attention source type (e.g., tweets, news, likes, comments, shares, reviews etc.), mention outlet or author name, country, and mention time;
- Altmetric Explorer takes a "snapshot" of the entire database every day at midnight (UTC);
- Institutional subscription required to access all tools and services (e.g. creating an individual researcher profile);
- Free altmetric bookmarklet available to view the altmetrics for any journal article published with a DOI.

News	8
Blog	5
Policy document (per source)	3
Patent	3
Wikipedia	3
Peer review (Publons, Pubpeer)	1
Weibo (not trackable since 2015, but historical data kept)	1
Google+ (not trackable since 2019, but historical data kept)	1
F1000	1
Syllabi (Open Syllabus)	1
LinkedIn (not trackable since 2014, but historical data kept)	0.5
Twitter (tweets and retweets)	0.25
Facebook (only a curated list of public Pages)	0.25
Reddit	0.25
Pinterest (not trackable since 2013, but historical data kept)	0.25
Q&A (Stack Exchan)	0.25
Youtube	0.25
Number of Mendeley readers	0
Number of Dimensions and Web of Science citations	0

Default weightings

Altmetric

What is this page? Embed badge Share

Resource Security Impacts Men's Female Breast Size Preferences

Overview of attention for article published in PLOS ONE, March 2013

1259

1

2

3

4

5

SUMMARY News Blogs Twitter Facebook Wikipedia Google+ Reddit Video Dimensions citations

You are seeing a free-to-access but limited selection of the activity Altmetric has collected about this research output. [Click here to find out more.](#)

Title Resource Security Impacts Men's Female Breast Size Preferences
Published in PLOS ONE, March 2013
DOI 10.1371/journal.pone.0057623
PubMed ID 23483919
Authors Viren Swami, Martin J. Tovée
Abstract It has been suggested human female breast size may act as signal of fat reserves, which in turn...

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ABOUT THIS ATTENTION SCORE
 In the top 5% of all research outputs scored by Altmetric

Mentioned by
 6 news outlets
 5 blogs
 2042 tweeters
 12 Facebook pages
 1 Wikipedia page
 2 Google+ users
 3 Redditors
 2 video uploaders

Citations
 31 Dimensions

Readers on
 115 Mendeley
 1 CiteULike

TWITTER DEMOGRAPHICS MENDELEY READERS ATTENTION SCORE IN CONTEXT

The data shown below were collected from the profiles of 2,042 tweeters who shared this research output. [Click here to find out more about how the information was compiled.](#)

Geographical breakdown

Country	Count	As %
Indonesia	220	11%
Japan	207	10%
United States	57	3%
Sri Lanka	25	1%
United Kingdom	19	<1%
Spain	13	<1%
Nigeria	13	<1%
France	11	<1%
Turkey	10	<1%
Other	128	6%
Unknown	1,427	70%

Demographic breakdown

Type	Count	As %
Members of the public	2000	98%
Practitioners (doctors, other healthcare professionals)	15	<1%
Scientists	14	<1%
Science communicators (journalists, bloggers, editors)	10	<1%
Unknown	8	<1%

1 220

What is this page?

OPEN ACCESS PEER-REVIEWED
RESEARCH ARTICLE

Resource Security Impacts Men's Female Breast Size Preferences

Viren Swami, Martin J. Tovée

Published: March 6, 2013 • <https://doi.org/10.1371/journal.pone.0075793>

Article Authors **Metrics** Comments Media Coverage

116 Save 31 Citation
135,793 View 2,058 Share

Download PDF Print Share

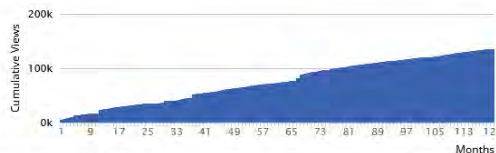
Check for updates

Viewed

Total Article Views	HTML Page Views	PDF Downloads	XML Downloads	Total
135 793	114 168	21 436	189	135 793

Mar 06, 2013 (publication date) through Mar 14, 2023 *

18,776 % of article views led to PDF downloads



*Although we update our data on a daily basis, there may be a 48-hour delay before the most recent numbers are available.

3

Resource Security Impacts Men's Female Breast Size Preferences

Viren Swami, Martin J. Tovée

Dimensions 31
Google search

Saved

MENDELEY 115
citeulike 1

Discussed

Comments 1
WIKIPEDIA 1
twitter 2042
facebook 12
reddit 3

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Subject Areas
Adipose tissue
Physiological parameters
Finance
Socioeconomic aspects...
Sensory perception
Personal computers
Body mass index
Body weight

1

nature > comment > article > article metrics

Article metrics | Last updated: Tue, 14 Mar 2023 14:03:34 Z

Predicting scientific success



Access & Citations

23k

Article Accesses

171

[Web of Science](#)

170

[CrossRef](#)

Citation counts are provided from Web of Science and CrossRef. The counts may vary by service, and are reliant on the availability of their data. Counts will update daily once available.

Online attention



Altmetric calculates a score based on the online attention an article receives. Each coloured thread in the circle represents a different type of online attention. The number in the centre is the Altmetric score. Social media and mainstream news media are the main sources that calculate the score. Reference managers such as Mendeley are also tracked but do not contribute to the score. Older articles often score higher because they have had more time to get noticed. To account for this, Altmetric has included the context data for other articles of a similar age.

This article is in the 99th percentile (ranked 391st) of the 169,793 tracked articles of a similar age in all journals and the 93rd percentile (ranked 65th) of the 1,019 tracked articles of a similar age in *Nature*

View more on [Altmetric](#)

Mentions in news and blogs

Divinations of academic success may be flawed

Nature

Scientists Offer New Formula to Predict Career Success

Percolator

This list highlights individual mainstream news articles and blogs that cite the article. Not all news and blogs link to articles in a way that Altmetric can pick up, so they are not representative of all media. Altmetric are responsible for the curation of this list and provide updates hourly.



Zen Faulkes

 0000-0003-4049-7034 

Biological sciences
Hamilton, Ontario

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University of Lethbridge, B.Sc., 1989
University of Victoria, Ph.D., 1996
McGill University, post-doctoral research, 1996-1999
University of Melbourne, post-doctoral research, 1999-2001
The University of Texas-Pan American, faculty, 2001-2015.
The University of Texas Rio Grande Valley, faculty, 2015-2020.
McMaster University, faculty, 2020-present.

Publications

- Faulkes Z, Feria TP, Muñoz J. 2012. Do Marmorkrebs, *Procambarus fallax f. virginalis*, threaten freshwater Japanese ecosystems? *Aquatic Biosystems* 8: 13. <http://dx.doi.org/10.1186/2046-9063-8-13>
- Carreon N, Faulkes Z, Fredensborg BL. 2011. *Polypocephalus* sp. infects the nervous system and increases activity of commercially harvested white shrimp (*Litopenaeus setiferus*). *Journal of Parasitology* 97(5): 755-759. <http://dx.doi.org/10.1645/GE-2749.1>







USAGE METRICS

57182
item views

13157
item downloads

28
citations

Co-workers & collaborators

-  Jarrett Byrnes
-  Open Science Federation
-  Jai Ranganathan
-  Open Science
-  Anna Stwora
-  Virginia L. Scofield

Stinging the Predators: A collection of papers that should never have been published

Cite

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Version 36 Journal Contribution posted on 2022-05-20, 22:31 authored by Zen Faulkes

This ebook collects academic papers and conference presentations that are so terrible that nobody in their right mind would publish them. It is intended to expose weak or non-existent peer review practices and conferences to expose weak or non-existent peer review practices. Each paper has a brief introduction. Short essays.

415 pages (version 20.0).

Version 1.0 released 26 July 2017.

Version 2.0 released 28 July 2017 (two new entries).

Version 3.0 released 31 July 2017 (two new entries).

Version 3.1 released 7 August 2017 (error corrected).

Version 4.0 released 16 February 2018 (one new entry).

- Picked up by 1 news outlets
 - Blogged by 4
 - Tweeted by 117
 - On 3 Facebook pages
 - Mentioned in 4 Google+ posts
 - 12 readers on Mendeley
- [See more details](#)

USAGE METRICS

26161
views

4673
downloads

4
citations



CATEGORIES

- Science, technology and engineering curriculum and pedagogy

KEYWORDS


Open Access Literature

science publication

Altmetric What is this page? Embed badge Share

Stinging the Predators: A collection of papers that should never have been published

Overview of attention for research output published on figshare, August 2017



109

About this Attention Score

In the top 5% of all research outputs scored by Altmetric

Mentioned by

- 1 news outlet
- 4 blogs
- 117 tweeters
- 3 Facebook pages
- 4 Google+ users

Readers on

- 12 Mendeley

What is this page?

SUMMARY News Blogs Twitter Facebook Google+

So far, Altmetric has seen 202 tweets from 117 users, with an upper bound of 1,104,125 followers.

Showing items 1-100

Zen Faulkes @DoctorZen
13 Jan 2023
@David_Dobbs Using autogenerated texts to create papers has been done many times already - usually to hoax predatory journals and expose weak editorial practices. <https://t.co/m39dVpWL8> I'm expecting a ChatGPT hoax Real Soon Now™.

Mario Ricciardi @marioricciardi18
29 Aug 2022
RT @DoctorZen: This New Statesman article isn't about hoaxes. It's about grinding an axe with humanities. Which is weird because most hoaxe...

Nate @nathanoseroff
29 Aug 2022
RT @DoctorZen: This badly mischaracterizes the dynamic of most academic hoaxes. I think I have the most extensive collection of hoaxes:...

Zen Faulkes @DoctorZen
31 Aug 2022
@evornithology @SMWadgyar "The Hoax Signal! Quick, Robin, to the Hoax-mobile!" This is the collection you want: <https://t.co/YKUOeDsgH5> This collects all published academic hoaxes I know of, starting from the 1800s. Most do not get media coverage until

Nate @nathanoseroff
29 Aug 2022
RT @DoctorZen: This New Statesman article isn't about hoaxes. It's about grinding an axe with humanities. Which is weird because most hoaxe...

Zen Faulkes @DoctorZen
29 Aug 2022
This New Statesman article isn't about hoaxes. It's about grinding an axe with humanities. Which is weird because most hoaxes happen in the sciences. <https://t.co/YKUOeDsgH5>

<https://www.altmetric.com/products/free-tools/bookmarklet/>

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The screenshot shows a research article page with several annotations:

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- Annotation 3:** A red box highlights the Altmetric widget in the right sidebar, which shows a donut chart with the number 23 and a list of social media mentions.

The article title is "Defining the role of libraries in the Open Science landscape: a reflection on current European practice" by Paul Ayris and Tiberius Ignat. The journal is "Open Information Science", Volume 2, Issue 1. The article is a review article published by De Gruyter in 2018.



- Tool created by Plum Analytics (In 2014, Plum Analytics became a part of EBSCO Information Services. In 2017, Plum Analytics joined Elsevier);
- Metrics provide insights into the ways people interact with individual pieces of research output (articles, conference proceedings, book chapters, and many more) in the online environment;
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- It collects following metrics: citation indexes, patent citations, clinical citations, policy citations, clicks, downloads, views, library holdings, video plays, bookmarks, code forks, favorites, readers, watchers, blog posts, comments, reviews, Wikipedia references, news media, shares, likes, comments, tweets;
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- PlumX categorizes metrics into 5 separate categories: Citations, Usage, Captures, Mentions, and Social Media;
- Circles dynamically change size based on metrics in each category;
- Its metrics are incorporated into Elsevier's existing products, including Mendeley, Scopus, Pure Portal, ScienceDirect, SSRN;
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Journal of Advanced Research
Volume 37, March 2022, Pages 267-278

Nicotinamide mononucleotide (NMN) as an anti-aging health product – Promises and safety concerns

Harshani Nadeeshani^a, Jinyao Li^b, Tianlei Ying^c, Baohong Zhang^d, Jun Lu^{a,e,f,g,h,i,j}

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Highlights

- Provides an overview of promises and safety concerns of NMN as an anti-aging product.
- Shows that NMN's beneficial effects supported by *in vivo* studies.
- Reveals that there is a lack of NMN's clinical safety and efficacy studies
- Suggests that proper clinical investigations are urgently needed on the effectiveness and safety of NMN supplementation.

Abstract

Background

Elderly population has been progressively rising in the world, thus the demand for anti-aging health products to assure longevity as well as to ameliorate age-related complications is also on the rise. Among various anti-aging health products, nicotinamide mononucleotide (NMN) has been gaining attentions of the consumers and the scientific community.

Aim of review

This article intends to provide an overview on the current knowledge on promises and safety concerns of NMN as an anti-aging health product.

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Mendeley	18
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Review Description

Elderly population has been progressively rising in the world, thus the demand for anti-aging health products to assure longevity as well as to ameliorate age-related complications is also on the rise. Among various anti-aging health products, nicotinamide mononucleotide (NMN) has been gaining attentions of the consumers and the scientific community. This article intends to provide an overview on the current knowledge on promises and safety concerns of NMN as an anti-aging health product. Nicotinamide adenine dinucleotide (NAD+) levels in the body deplete with aging and it is associated with downregulation of energy production in mitochondria, oxidative stress, DNA damage, cognitive impairment and infl...

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As we age, our body starts getting weaker, and we are unable to perform a lot of functions that we were once very amazing at.

Bibliographic Details

DOI: 10.1016/j.jare.2021.08.003

PMID: 35499054

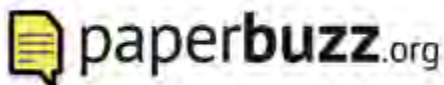
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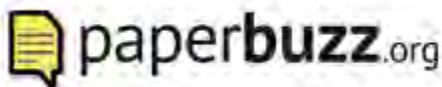
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Altmetrics tools: Paperbuzz



- Free and open service built by non-profit organizations ImpactStory and OurResearch with PKP's support;
- It takes the complex data collected by Crossref Event Data and calculates metrics for every article that has a digital object identifier (DOI) registered with Crossref;
- Its development was conducted as part of the CO.SHS project and has been supported by the Canada Foundation for Innovation (Cyberinfrastructure Initiative – Challenge 1 – First competition);
- Crossref's Event Data service provides publishers, editors, bibliometricians, research scientists, and third-party service providers with a stream of information detailing tens of millions of raw "interactions" between registered DOIs and online resources — some 65 million to date;
- Unlike traditional altmetrics providers, paperbuzz don't do any sort of aggregation. Instead, the organization provides "an ongoing stream" of subject-relation-object "triples", each of which describes an "interaction";
- The service captures interactions from a dozen sources, including Twitter, Wikipedia, Reddit, StackExchange, DataCite, and the Cambia Lens patent database.



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D. E. Acuna, S. Allesina, K. P. Kording, *Predicting scientific success*, „Nature” 2012, iss. 489, pp. 201-202; DOI: [10.1038/489201a](https://doi.org/10.1038/489201a)

Predicting scientific success

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Altmetrics tools: Impactstory



- Impactstory is a not-for-profit, web-based service that creates a researcher profile and can be used to track the impact of articles, datasets, posters, slide decks, software products and webpages.
- The site offers a 30-day free trial and, after that, makes a charge for continued use.
- The Impactstory software is open source.
- Its development is funded by the National Science Foundation and the Alfred P. Sloan Foundation;
- It can be used by researchers who want to know more about the engagement with their research beyond citation impact, such as how many times their work has been downloaded and shared, and also by research funders who are interested in the impact of research beyond only considering citations to journal articles;
- Researchers can create an Impactstory profile and upload publications to the site by importing citations and more from Google Scholar, ORCID, Figshare, GitHub, Slideshare and other sources or entering a PMID, digital object identifier (DOI) or URL;
- Impactstory tracks citations, saves, views, and discussions from sources such as Scopus, Mendeley, PLOS, Twitter and Figshare;
- As well as viewing altmetrics, researchers can also see a geographical distribution of the impact of their research;
- It is free to create an Impactstory account, but it does first require a Twitter account to register.
- It can be also integrated with ORCID, which allows o easily see all the online engagement with all research in one spot.



Carl Boettiger   

University of California Berkeley Assistant Professor

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4

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2012 

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2012 

29  

 Managing Larger Data on a GitHub Repository

2018 *Journal of Open Source Software*

17 



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University of California Berkeley Assistant Professor

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39 PUBLICATIONS

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2012 


13  

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Coauthors

Ben Marwick

Sadie Ryan

Noam Ross

Scott Chamberlain

Normalization attempts of altmetrics

Outputs of the NISO Alternative Assessment Metrics Project. A Recommended Practice of the National Information Standards Organization (2016):

1. Transparency:

- how data are generated, collected, and curated (T1);
- how data are aggregated, and derived data generated (T2);
- when and how often data are updated (T3);
- how data can be accessed (T4);
- how data quality is monitored (T5).

2. Replicability:

- the provided data is generated using the same methods over time (R1);
- changes in methods and their effects are documented (R2);
- changes in the data following corrections of errors are documented (R3);
- data provided to different users at the same time is identical or, if not, differences in access provided to different user groups are documented (R4);
- information is provided on whether and how data can be independently verified (R5).

3. Accuracy:

- the data represents what it purports to reflect (A1);
- known errors are identified and corrected (A2);
- any limitations of the provided data are communicated (A3).

Example of data aggregator's report

NISO RP-25-2016 Alternative Assessment Metrics Project

NISO Altmetrics Working Group C "Data Quality" – Code of Conduct Self-Reporting Table

Example for data aggregator: Facebook

Item	Description	Supports CoC Recommendation	Aggregator / Provider Submission*	Last update of self-reporting table**
#1	List all available data and metrics (providers and aggregators) and altmetric data providers from which data are collected (aggregators).	T1	Facebook provides different online-event counts for a specific URL. These counts comprise "shares," "likes," and "comments". Aggregates are provided for the each of these social shares based on the total number of Facebook users who have shared, liked, or commented on a particular URL, respectively. Shares, likes, and comments that are public (i.e., are not restricted to specific user groups) contain further information such as the user name and time of event. Available data are further described in the Graph API documentation: https://developers.facebook.com/docs/graph-api .	2016/02/05
#2	Provide a clear definition of each metric.	A1	Facebook provides the following event counts: <ul style="list-style-type: none"> • Shares represent the number of times a particular URL has been shared by Facebook users on their own or other users' Facebook walls. Shares are thus posts that include a URL. Shares that are made available publicly (i.e., those for which access is not restricted to a certain user group) include the information about by whom and when the URL was shared. Each user can share the same URL multiple times; aggregated share counts thus do not necessarily reflect the number of unique users who have shared that URL. 	2016/02/05

Example of data aggregator's report

NISO RP-25-2016 Alternative Assessment Metrics Project

NISO Altmetrics Working Group C "Data Quality" – Code of Conduct Self-Reporting Table

Example for data aggregator: Plum Analytics

Item	Description	Supports CoC Recommendation	Aggregator / Provider Submission*	Last update of self-reporting table**
#1	List all available data and metrics (providers and aggregators) and altmetric data providers from which data are collected (aggregators).	T1	<p>Plum Analytics has a suite of products called PlumX. A description of each PlumX product can be found on our product pages.</p> <p>PlumX collects metrics data from many sources and groups them into 5 categories of metrics. Sources for each category are defined below:</p> <p><i>Usage</i> – bepress, bit.ly, CABI, Dryad, DSpace, EBSCO, ePrints, Facebook, figshare, Forbes, Github, Institutional Repositories, OJS Journals, PLOS, PubMedCentral, Pure, RePEc, Slideshare, SSRN, WorldCat. (See more information at http://plumanalytics.com/learn/about-metrics/usage-metrics/)</p> <p><i>Captures</i> – Delicious, EBSCO, GitHub, Goodreads, Mendelej, SlideShare, Vimeo, YouTube (See more information at http://plumanalytics.com/learn/about-metrics/capture-metrics/)</p> <p><i>Mentions</i> – Amazon, blogs, Facebook, GitHub, Goodreads, mainstream media, Reddit, Slideshare, SourceForge, StackExchange, Vimeo, YouTube, Wikipedia (See more information at http://plumanalytics.com/learn/about-metrics/mention-metrics/)</p> <p><i>Social Media</i> – Amazon, Facebook, Figshare, Google Plus, Goodreads, SourceForge, Reddit, Twitter, Vimeo, YouTube (See more information at http://plumanalytics.com/learn/about-metrics/social-media-metrics/)</p> <p><i>Citations</i> – CrossRef, PubMed Central, PubMed Central Europe, RePEc, Scopus (for mutual customers), SSRN, United States Patent and Trademark Office (See more information at http://plumanalytics.com/learn/about-metrics/citation-metrics/)</p>	2016/03/31

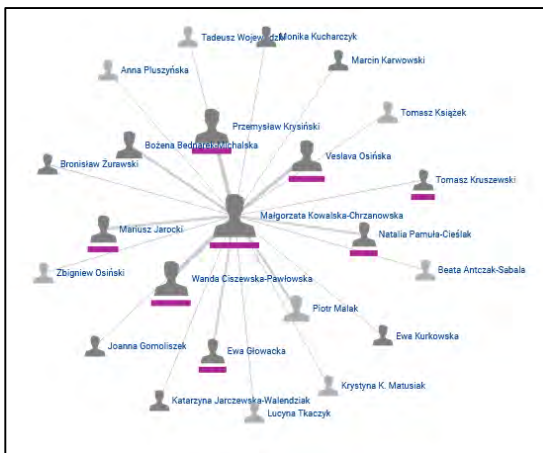
Case study no. 1: Altmetrics in assessment of individual achievements

Małgorzata Kowalska-Chrzanowska, dr hab.
University Professor
Department of Information Space Research
Institute of Information and Communication Research
Faculty of Philosophy and Social Sciences
Email: koma@umk.pl

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- Władysław Osiński - publications: 6
- Beata Królicka - publications: 1
- Marcin Karwowski - publications: 1
- Anna Pietrzak - publications: 1
- Anna Mielczarek-Taica - publications: 1
- Wanda Ciszewska-Pawłowska - publications: 9
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Achievements summary

Publications
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Professional activity

109

3

4

Bibliometry*

Total IF
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6,124

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1,013

Identifiers

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Published names: Kowalska-Chrzanowska, Małgorzata Kowalska, Małgorzata

Published Organization: Nicolaus Copernicus University

Subject Categories: Information Science & Library Science; Education & Educational Research

Other Identifiers: <https://orcid.org/0000-0002-2839-5732>

Metrics Open dashboard

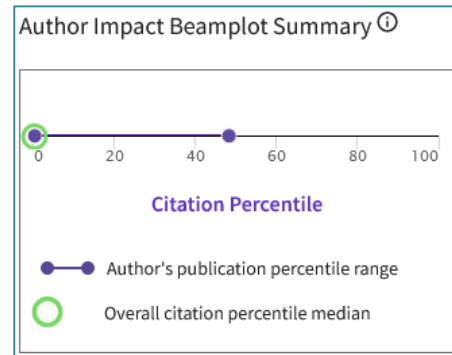
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Kowalska-Chrzanowska, M., Krysiński, P., Karwowski, M.P. *Education and Information Technologies*, 2021, 26(3), pp. 3427-3444

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Kowalska-Chrzanowska, M., Krysiński, P. *Global Knowledge, Memory and Communication*, 2020, 69(8-9), pp. 717-716

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Osińska, V., Mausiak, K.K., Kowalska, M., Bednarek-Michałska, B., Małak, P. *Journal of Librarianship and Information Science*, 2019, 51(3), pp. 710-720

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Google Scholar



Małgorzata Kowalska-Chrzanowska ✎

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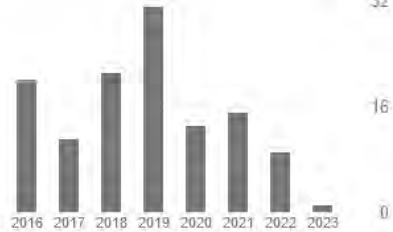
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Citations	173	90
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<input type="checkbox"/> Dygitalizacja zbiorów bibliotek polskich M Kowalska Warszawa: SBP	21 *	2007
<input type="checkbox"/> Digitalizacja zbiorów w bibliotekach polskich-próba oceny doświadczeń krajowych M Kowalska Biuletyn EBIB 11 (2006)	9	2006
<input type="checkbox"/> Dorobek naukowy pracowników Instytutu Informacji Naukowej i Bibliologii UMK za lata 1976-2007. Cz. 2. Analiza treściowa M Kowalska, W Ciszewska Toruńskie Studia Bibliologiczne 1 (2009), 91-107	8 *	2009
<input type="checkbox"/> Dorobek naukowy pracowników Instytutu Informacji Naukowej i Bibliologii UMK za lata 1976-2007. Cz. 1. Analiza ilościowa, M Kowalska, W Ciszewska Toruńskie Studia Bibliologiczne 1 (2008), 95-112	8 *	2008



Year	Citations
2016	16
2017	10
2018	16
2019	32
2020	12
2021	14
2022	8
2023	1

Co-authors [EDIT](#)

- Veslava Osińska |
[orcid.org/0000-000...](#)
 Nicolaus Copernicus University (...)

>
- Wanda Ciszewska-Pawłowska
 (Cisze...
 Nicolaus Copernicus University (...)

>
- Przemysław Krysiński
 Nicolaus Copernicus University (...)

>

Case study no. 1

ResearchGate



Małgorzata Kowalska-Chrzanowska [Edit](#)

Associate Professor · Professor (Associate) at Nicolaus Copernicus University

Poland | [Website](#)

Current activity

Research Interest Score 79.1

Citations 51

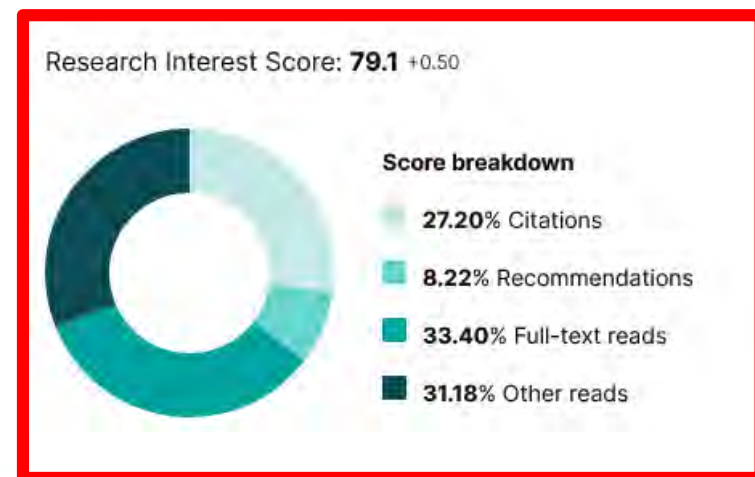
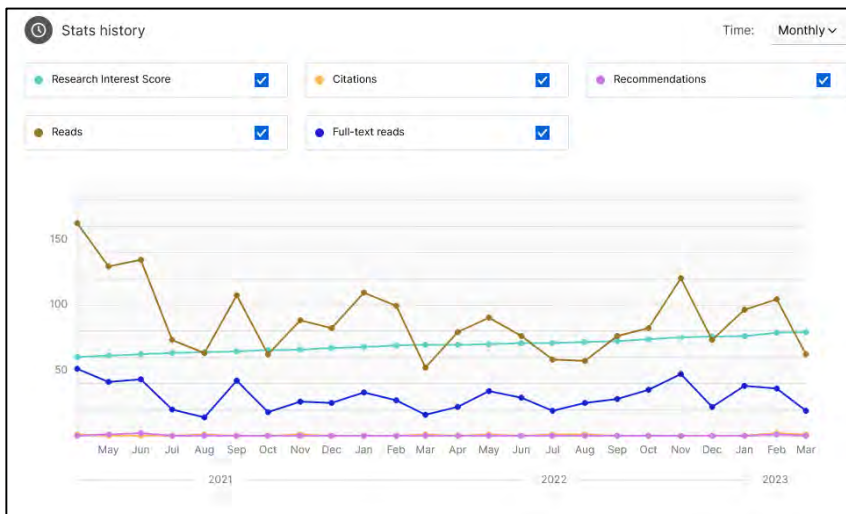
h-index 4

[Citations over time](#)

- Projects (9)
- Research items
 - All (76)
 - Article (47)
 - Book (3)
 - Chapter (17)
 - Conference Paper (5)
 - Data
 - Research
 - Presentation (4)
 - Poster
 - Preprint
 - Full-texts (46)

Overall publications stats

79.1 Research Interest Score <small>+0.5 last week</small>	9,502 Reads <small>+21 last week</small>	51 Citations <small>+1 last week</small>	28 Recommendations <small>→ ---</small>	1 Mentions <small>→ ---</small>
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Case study no. 2: Altmetrics in assessment of scientific discipline (communication and media studies)



Polish Science database: Scientists



Scopus



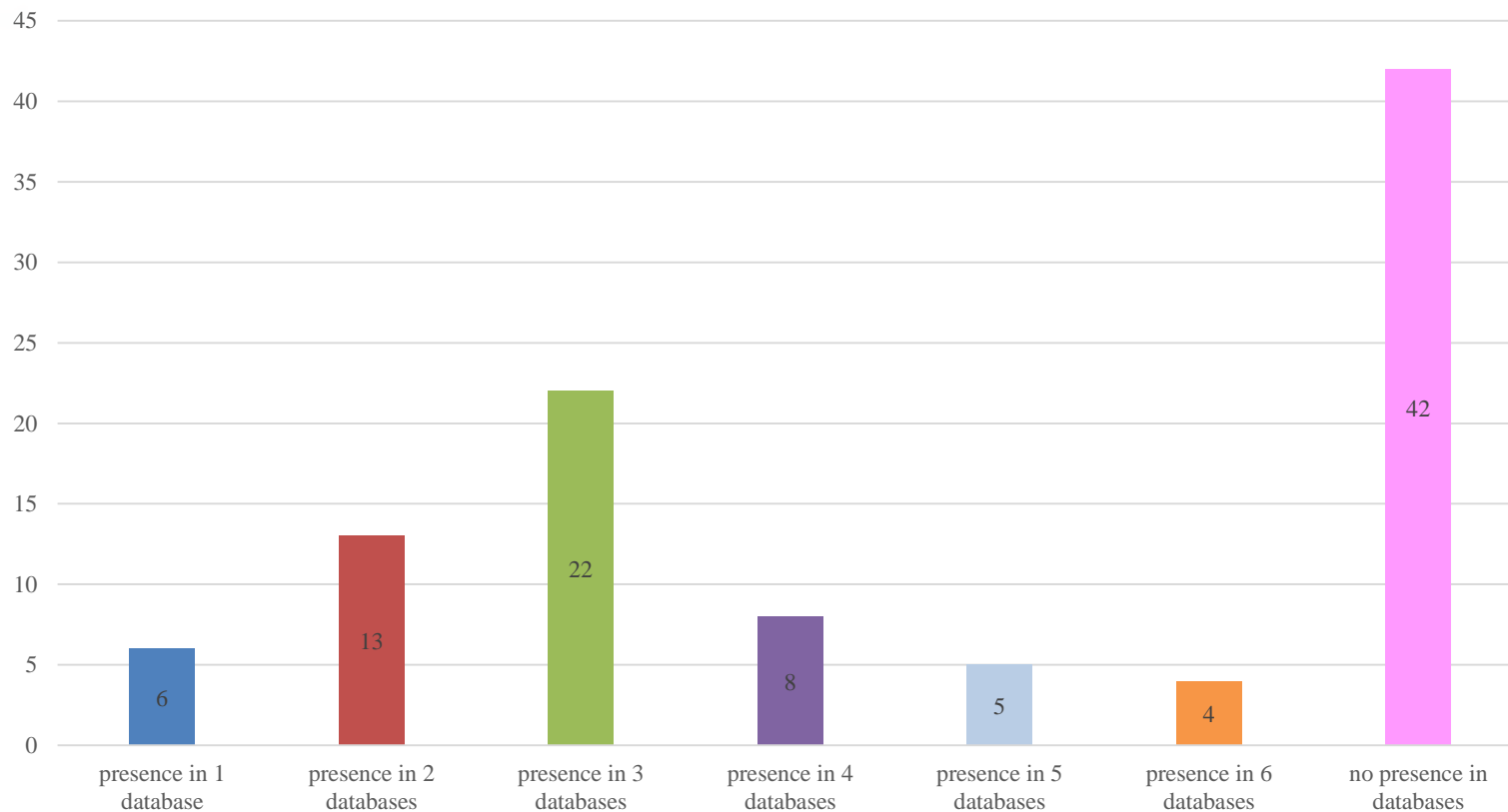
The Polish Scientific Bibliography



WEB OF SCIENCE™

Kowalska-Chrzanowska, Małgorzata; Krysiński, Przemysław (2020). Role of Social Networking Services for Scientists in Promoting Scientific Output on Example of Polish Representatives of Social Communication and Media Sciences. *Global Knowledge, Memory and Communication*, Vol. 69, Iss. 8/9, pp. 717–736.

Case study no. 2



Presence of representatives of the communication and media studies (n=100) in the analyzed databases

Case study no. 2

Databases	Number of scientist's profiles confirmed for publications in 2017–2019	Number of publications in the period of 2017-2019 identified in the database	Number of publications in the period of 2017–2019 identified in the database, with credit for scientific degrees and titles of the authors		
			professor	Ph. D., habil	Ph. D.
Polish Science database: Scientists	5	56	15	22	29
Bibliographies of scientific achievement providing by universities	29	167	29	103	93
Polish Scientific Bibliography (reporting module)	42	289	66	101	122
Polish Scientific Bibliography (repository module)	26	445	127	209	109
POL-Index	33	115	6	57	52
Web of Science	19	45	1	26	18
Scopus	23	54	4	36	14

Number of publications authored by the Polish representatives of the communication and media studies (n=100) in 2017–2019, identified in the analyzed databases

Case study no. 2

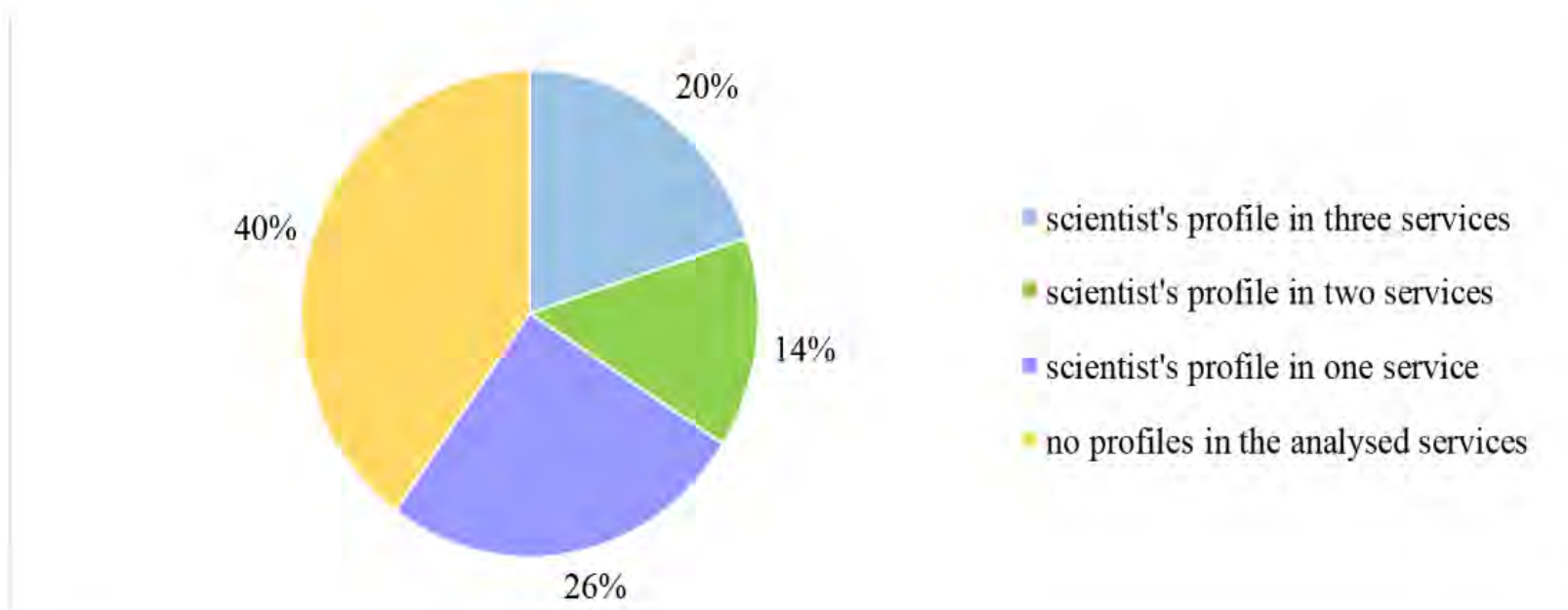
Databases	Types of publications			Total
	papers in periodicals	chapters in collective works	monographs and collective works	
Polish Science database: Scientists	47	7	2	56
Bibliographies of scientific achievement providing by universities	51	78	38	167
Polish Scientific Bibliography (reporting module)	109	157	23	289
Polish Scientific Bibliography (repository module)	169	197	79	445
POL-Index	115	0	0	115
Web of Science	37	8	0	45
Scopus	51	2	1	54

Types of publications authored by the Polish representatives of the communication and media studies (n=100) in 2017–2019, identified in the analyzed databases



Service	Evaluated elements
Google Scholar	<ul style="list-style-type: none"> • presence of the scientist's profile in the service; • publications in the period of 2017–2019: number of publications, types of publications, type of access to publication (link to publisher's page, link to repository), number of citations.
<u>ResearchGate</u>	<ul style="list-style-type: none"> • presence of the scientist's profile in the service; • number of profile's followers; • number of queries in 2017–2019; • number of replies in 2017–2019; • publications in the period of 2017–2019: number of publications, types of publications, type of access to publication (full text, on-demand file, link to publisher's page, link to platform or periodicals database, link to another service for scientists), number of views, number of citations, number of recommendations.
Academia.edu	<ul style="list-style-type: none"> • presence of the scientist's profile in the service; • number of profile's followers; • publications in the period of 2017–2019: number of publications, types of publications, type of access to publication (full text file, on-demand file, link to publisher's page, link to platform or periodicals database, link to another service for scientists), number of views, number of citations, number of recommendations.

Case study no. 2



Presence of representatives of the communication and media studies (n=100) in the analyzed social networking services for scientists

Case study no. 2

Service	Total number of scientist's profiles identified in the services	Number of scientist's profiles confirmed for publications in 2017–2019	Number of publications in the period of 2017-2019 identified in the services	Number of publications in the period of 2017–2019 identified in the services, with credit for scientific degrees and titles of the authors		
				professor	Ph.D., habil.	Ph.D.
Google Scholar	35	24	173	41	46	86
ResearchGate	37	29	177	14	95	68
Academia.edu	41	12	79	5	11	63

Number of publications authored by the Polish representatives of the communication and media studies (n=100) in 2017–2019, identified in the analyzed social networking services for scientists

Case study 2

Services	Types of publication										Total
	papers in periodicals	chapters in collective works	monographs and collective works	conference speeches	translations	essays	interviews	preprints	multimedia presentations	encyclopaedic entries	
Google Scholar	114	18	16	0	0	0	0	0	1	24	173
ResearchGate	109	26	20	16	0	0	0	5	1	0	177
Academia.edu	52	4	13	0	6	1	3	0	0	0	79

Types of publications authored by the Polish representatives of the communication and media studies (n=100) in 2017–2019, identified in the analyzed social networking services for scientists

Case study no. 2 (related research from 2022)

Table 2. Usage of services and platforms for scientists in the entire group of respondents.

No.	Website for scientists	N=570	%
1	Academia.edu	294	51.5
2	ResearchGate	246	43.1
3	Google Scholar	246	43.1
4	Scopus	148	25.9
5	Publons	78	13.6

Kisilowska-Szurmińska, Małgorzata; Świgoń, Marzena; Głowacka, Ewa (2022). The use of Academia.edu, ResearchGate, Google Scholar, Scopus, and Publons among the Polish researchers of social communication and media sciences, *Przegląd Biblioteczny*, nr 2, s. 137–169

Table 9. Number of publications in Scopus in the study group (N=148)

No	Number of publications in Scopus	N=148	%
1	over 40 publications	2	1.30
2	from 21 to 40	3	2.10
3	from 11 to 20	7	4.70
4	from 1 to 10	136	91.80
	Total	148	100

Table 5. Number of publications on RG among account holders (N=246)

	Number of publications on RG	N=246	%
1	over 40 publications	18	7.3
2	from 21 to 40	28	11.3
3	from 11 to 20	55	22.3
4	from 1 to 10	110	44.7
5	no publications	35	14.2
	Total	246	100

Table 10. Number of citations in Scopus in the study group (N=148)

No.	Number of citations in Scopus	N=148	%
1	no citations	83	56.00
2	from 1 to 20	45	30.40
3	from 21 to 40	11	7.40
4	from 41 to 100	5	3.40
5	from 100 to 1,000	3	2.00
6	over 1000	1	0.60
	Total	148	100

Table 3. Full texts of publications in the accounts of Academia.edu users in the study group (N=294)

No	Number of full texts of publications on Academia.edu	N=294	%
1	over 40 publications	10	3.4
2	from 21 to 40	12	4.1
3	from 11 to 20	21	7.1
4	from 1 to 10	96	32.6
5	no publications	155	52.7
	Total	294	100

Case study no. 3: Altmetrics in assessment of selected research area




Scopus

„university library” OR „academic library”

8 document results

(KEY ("university library" OR "academic library") AND AFFILCOUNTRY (poland)) AND (LIMIT-TO (DOCTYPE , "ar")) AND (LIMIT-TO (PUBYEAR , 2021) OR LIMIT-TO (PUBYEAR , 2020) OR LIMIT-TO (PUBYEAR , 2018) OR LIMIT-TO (PUBYEAR , 2016) OR LIMIT-TO (PUBYEAR , 2013))


8

Scholarly Output 
37.5% Open Access


11

Authors

1.39

Field-Weighted Citation Impact 

80

Citation Count 

10.0

Citations per Publication 

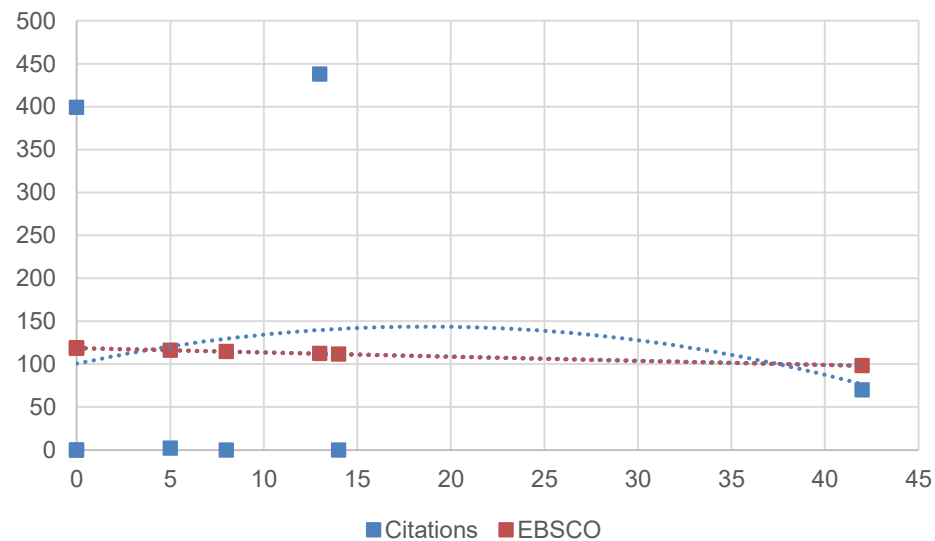
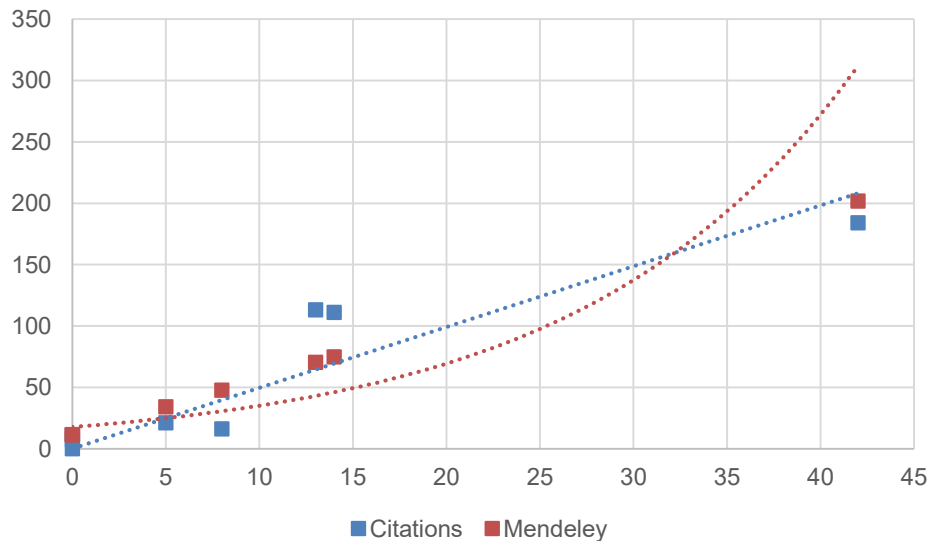
Analiza podstawowych wskaźników bibliometrycznych: liczba publikacji, liczba autorów, liczba cytowań, cytowania na publikację i średni ważony wskaźnik cytowań (FWCI, średnia światowa = 1)

Case study no. 3








Articles	Citations	Mendeley	EBSCO-Saves	EBSCO-Views	Twitter	Facebook	Blogs
1	14	111	0	0	5	2	0
2	0	0	0	0	0	0	0
3	8	16	0	0	0	1	1
4	0	7	0	0	0	0	0
5	13	113	42	438	3	0	0
6	42	184	2	70	4	0	0
7	5	21	0	2	0	0	
8	0	11	22	399	0	0	0
TOTAL	82	463	64	837	12	3	1

Pearson correlation coefficient








Citations vs Mendeley	0,925015
Citations vs EBSCO Views	-0,03609



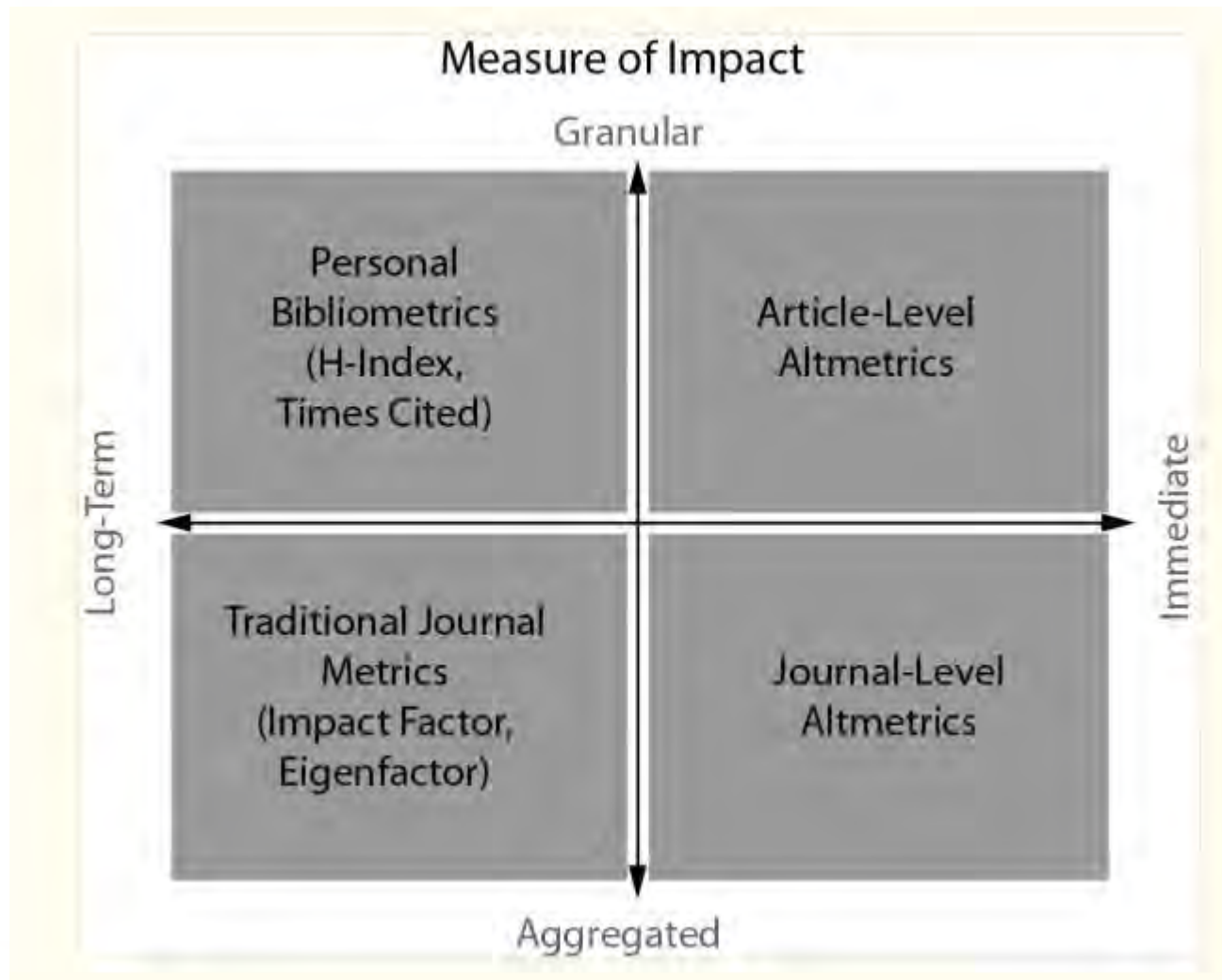
Advantages of altmetrics

-  They help provide a fuller picture of the use of research than citation counts alone.
-  They can demonstrate broader impact because they allow to show how people from outside of academia have interested on science.
-  They allow measurement of early reaction to papers because social media, for example, can provide feedback on research in less time than citations in journal articles.
-  As an indicator of engagement and potential reach of research, qualitative altmetric data may supplement and affirm actual impacts and applications of research by the target audience or stakeholders.
-  Altmetric data captures a range of interactions such as comments, posts, tweets about research activities via the social web and mainstream media, as well as article level metrics very quickly. In this way they help to see the extent to which research is being shared and discussed by others.
-  They may determine future citations.
-  Comments and conversations about research gleaned via the social web may facilitate connections with potential collaborators at a global level, both within the academy and beyond.

Disadvantages of altmetrics

-  To date there is no normalization of altmetrics and guidelines for their aggregating.
-  Altmetrics look at how many times research is used or mentioned but not at the context. As a result, a simple altmetric count cannot be used to demonstrate the value of research alone.
-  Altmetrics are fast, but temporary.
-  Some articles get mentioned on social media because they relate to popular topics, not because they are examples of good research.
-  Altmetrics can be abused by individuals who want to artificially increase their altmetric scores.
-  Altmetrics data is used inconsistently across academic disciplines.
-  To date there is no consensus regarding the use of altmetrics to support faculty tenure applications, grant applications and overall scholarly research impact

Conclusions



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Thank you for your attention

koma@umk.pl