WHAT IS AN IMPACT FACTOR FOR A PEER REVIEWED JOURNAL OR AN ARTICLE?
WHAT IS PLUM X AND H-INDEX?
HOW ARE THEY CALCULATED AND WHY ARE THEY IMPORTANT?
WHAT CONSTITUTES PLAGIARISM – IT'S NOT SIMPLE

Peter F. Lawrence, MD and Peter Gloviczki, MD, PhD
Editors Emeriti, *Journal of Vascular Surgery* Publications

VEITH SYMPOSIUM
Connecting The Vascular Community
Tuesday, November 19 - Saturday, November 23, 2024

NO CONFLICT OF INTEREST

METRICS
Quantify the use of scholarly publications
(Web of Science/Clarivate, Scopus, PubMed, Medline, Google Scholar, ScholarGPS)

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Journal-level
IMPACT FACTOR
H5-index
Immediacy Index
Cited half-life
Eigenfactor-Metrics
Total Cites and Self Cites
Citable Items
Acceptance rate
Cite-score, SNIP, SJR

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Quantify the use of scholarly publications
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Journal-level		Article-level
IMPACT FACTOR		CITATIONS
H5-index		ALTMETRICS , PLUM X METRICS (viewed, saved, shared, tweeted or cited in public source)
Immediacy Index		DOWNLOADS
Cited half-life		
Eigenfactor-Metrics		
Total Cites and Self Cites		
Citable Items		
Acceptance rate		
Cite-score, SNIP, SJR		

METRICS
Quantify the use of scholarly publications
(Web of Science/Clarivate, Scopus, PubMed, Medline, Google Scholar, Scholar GPS)

Journal-level	Author- level	Article-level
IMPACT FACTOR	N. OF CITATIONS	N. OF CITATIONS
H5-index	H-INDEX	ALTMETRICS , PLUM X METRICS (viewed, saved, shared, tweeted or cited in public source)
Immediacy Index	N. OF PUBLICATIONS	N. OF DOWNLOADS
Cited half-life	i10 index	
Eigenfactor-Metrics	e-index	
Total Cites and Self Cites	g-index	
Citable Items		
Acceptance rate		
Cite-score, SNIP, SJR		

Slide 1:

2023 IMPACT FACTOR OF JVS
(announced in June 2024)

$$JIF = \frac{\text{N. of citations in 2023 of articles published in 2021 + 2022}}{\text{N. of articles published in 2021-2022}} = 3.9$$

Average N. of citations per article in the previous two years

Slide 2:

2023 IMPACT FACTOR OF JVS
(announced in June 2024)

INCREASE CITATIONS: Accept articles with high chance of citation

$$JIF = \frac{\text{N. of citations in 2023 of articles published in 2021 + 2022}}{\text{N. of articles published in 2021-2022}} = 3.9$$

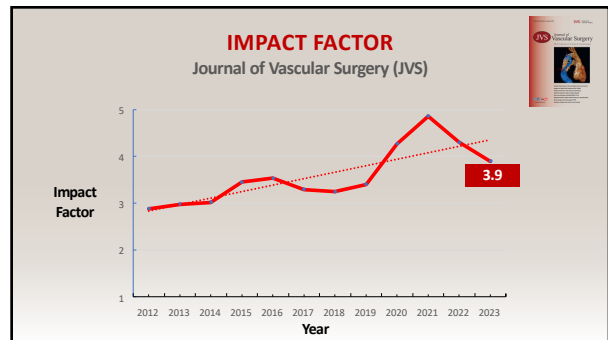Average N. of citations per article in the previous two years

Slide 3:

2023 IMPACT FACTOR OF JVS
(announced in June 2024)

INCREASE CITATIONS: Accept articles with high chance of citation

$$JIF = \frac{\text{N. of citations in 2023 of articles published in 2021 + 2022}}{\text{N. of articles published in 2021-2022}} = 3.9$$

PUBLISH FEWER ARTICLES: reject those with low chance of citation

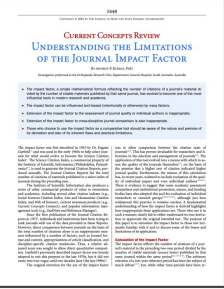Average N. of citations per article in the previous two years

Slide 4:

IMPACT FACTOR
Journal of Vascular Surgery (JVS)

Impact Factor — 3.9

Year: 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023

Slide 5:

IMPACT FACTOR OF 12,061 JOURNALS

Impact Factor	Number of Journals	Ranking (Top % of Journals)
10+	213	1.7%
9+	257	2.1%
8+	317	2.6%
7+	400	3.3%
6+	553	4.6%
5+	778	6.5%
4+	1251	10.4%
3+	2303	19.1%
2+	4388	36.4%
1+	8074	67.0%
0+	12061	100%

3.9

Slide 6:

IMPACT FACTOR OF 12,061 JOURNALS

Impact Factor	Number of Journals	Ranking (Top % of Journals)
10+	213	1.7%
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4+	1251	10.4%
3+	2303	19.1%
2+	4388	36.4%
1+	8074	67.0%
0+	12061	100%

96.2
JAMA Surgery 16.9
35.5
5.7
3.9
3.3
3.1
Phlebology 1.6
1.4

Slide 1 & 2 (top two slides):

Cumulative IF of an author, who published 3 articles in JVS journals:
3.9+3.9+2.8 = 10.6

Extension of journal-impact-factor data to individual articles and authors is inappropriate and should be avoided.

Slide 3:

H-INDEX
(HIRSCH INDEX)

- An author level metric
- Measures *scholarly productivity* and *research impact*
- H stands for the number of articles that have each been cited H number of times.
- **H-Index of 30**: the author has published 30 articles that have each been cited 30+ times.

Slide 4:

H-INDEX
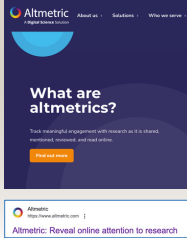
	H-index of John Doe
Clarivate Web of Science	83
ELSEVIER Scopus	94
ScholarGPS POWERING SCHOLARLY ANALYTICS	111
Google Scholar	114

Slide 5:

ALTMETRICS

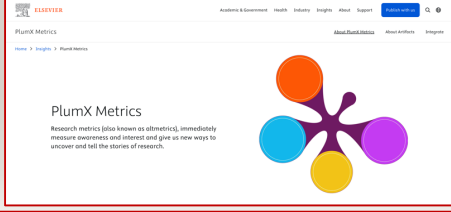Altmetric About us Solutions Who we serve

Altmetrics (alternative metrics), measure the impact of an article online.

Supplement traditional article-metrics as citation counts and journal prestige

They can include:

- Mentions on social media (X, Facebook, LinkedIn)
- Downloads, views, shares of articles
- Discussions on research blogs
- Mainstream media coverage
- Citations on Wikipedia and in public policy documents
- Comments in online forums

What are altmetrics?

Track meaningful engagement with research as it is shared, mentioned, reviewed, and read online.

Find out more

Altmetric
https://www.altmetric.com
Altmetric: Reveal online attention to research

Slide 6:

PLUMX METRICS

ELSEVIER   Academic & Government   Health   Industry   Insights   About   Support   Publish with us

PlumX Metrics   About PlumX Metrics   About Artifacts   Integrate

Home > Insights > PlumX Metrics

PlumX Metrics

Research metrics (also known as altmetrics), immediately measure awareness and interest and give us new ways to uncover and tell the stories of research.

Citation Metrics   Usage Metrics   Capture Metrics   Mention Metrics   Social Media Metrics

PLAGIARISM

- Representation of another author's language, thoughts, ideas, or expressions as one's own original work.

- A violation of academic integrity and a breach of journalistic ethics.

COMMON TYPES OF PLAGIARISM

✓ **Complete plagiarism:** Submit another authors work in your name

✓ **Source-based plagiarism:** Reference an incorrect or non-existent source

✓ **Direct plagiarism:** Copy text from another document word-to-word

✓ **Self or auto plagiarism:** Reuse a major part of your own work without attribution

✓ **Paraphrasing plagiarism:** Make minor changes and use others' writing

✓ **Mosaic plagiarism:** Interlay someone else's phrases or text within your work.

✓ **Accidental plagiarism:** Unintentional paraphrasing or copying due to neglect

✓ **Inaccurate authorship:** Authorship instead of acknowledgment to contributors and vice versa

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- **A plagiarism detection service**
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  - 97% of the top 10,000 cited journals
  - 81,000 journal articles
  - 47 billion current and archived web pages

ITHENTICATE?

WHAT DID WE DO WHEN iTHENTICATE SHOWED SIGNIFICANT OVERLAP WITH OTHER PAPERS?

- Determine where the overlap has occurred
  - Previously published Abstract or frequently used Methods are less important than Results/Discussion
- Determine the extent of the overlap
  - 7% from one source is the max. upper limit
  - >20% for the paper is the max. total limit
- Determine if the overlap has been referenced

HOW TO DEAL WITH A PLAGIARIZED PAPER?

- Intent should drive the approach
  - Return the paper and request revisions to <7%
  - Ask authors to reference text taken from other sources
  - Reject the paper
  - Refer a plagiarized paper to their academic institution
- Withdraw the paper if already published

TAKE HOME MESSAGE

Avoid Plagiarism at All Costs!

Ignorance is No Excuse!

THANK YOU!