Dissemination of scientific research results

trends, threats and prospects

Habib Hamam





lssues: trends and threats

Boom in publications and graduations

Rapid and abundant open access publications by gigantic publishers, such as Hindawi, MDPI and SAGE

Publishing Services

Example in the Arab world



Tamjeed Publishing

For reviewing scientific research and publishing

Tamjeed Institution for scientific research reviewing and publishing

Tamjeed is one of the first and the biggest institutions in the Middle East and Gulf States that is specialized, licensed, and has a commercial registration in the field of services and educational consultancies. We have submitted more than 5000 in the Middle East and Gulf States in Scopus, Web of Science, and Clarivate Journal rankings. Tamjeed is tailored to Arab researchers and academics in various universities and majors for reviewing their research and publishing them in the best publishing houses; including Sage, Springer, and Hindawi.

Request your Service

Expected situation for the near future More publications and less exploitable results

- Difficulty of being updated (Related works)
- Publication of the same incremental research results
- Lot of review articles
- Submit until published because of rapid process
- Prestigious journals loosing importance because of citations (IF)
- Rapid emerging of very selective journals (sensors)
- Large scope and raking issues H. Hamam

Legal issues

Jeffrey Beall's Repeated Attacks on MDPI

Update: Response to Mr. Jeffrey Beall's Repeated Attacks on MDPI

Update added on 8 May 2019: For some time we have been aware of an anonymously run list at weebly.com claiming to be a successor to Jeffrey Beall's now defunct list and including MDPI as 'possibly predatory'. We strongly recommend against using this list as a reliable source of information about any publisher. The person or organisation running it is unknown and no justification or criteria are given for adding any publisher. We continue to recommend Think.Check.Submit to verify the reliability of any publisher, and organisations such as the Directory of Open Access Journals and the Open Access Scholarly Publishers Association.

Update added on 28 October 2015: MDPI was removed from Mr. Beall's list on 28 October 2015 as a result of a formal appeal made by MDPI and assessed by four members of Mr Beall's Appeals Board. The tweet by Jeffrey Beall can be found here.

Update added on 14 April 2014: The *Open Access Scholarly Publishers Association* (OASPA) concluded their investigation into the claims made against MDPI. Based on their findings they "feel satisfied that MDPI continue to meet the OASPA Membership Criteria". OASPA carefully reviewed correspondances and other relevant documents from MDPI. More details are available from the **OASPA blog**.

Mr. Jeffrey Beall is a librarian at the Auraria Library, University of Colorado, Denver and has publicly criticized MDPI twice via his blog "Scholarly Open Access".

Consequences on Professional Life

- Hiring process: Retained candidate
- Pioneer researchers will die
- Faculty positions will be inaccessible in USA if open process
- Promotion
- Do not need solid projects
- Research grants for those who made an intelligent investment at the beginning
- Conclusions: Institutions will intervene

Reality in developing countries

Reality of the developing countries

- Low budget, almost no research grants
- Low research production
- Weak infrastructure
- Low number of researchers
 - Low number of graduate students
 - Almost no strategies of research
 - Graduate students are not adequately directed

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Taken measures

- Follow practice in developed countries
- Research as condition for promotion
- Organization of conferences
- Graduate studies

Publish and publish

- with little research activities
- with no grants
- With no graduate students

Target disciplines: No infra.

Taken measures

- Follow practice in developed countries
- Research as condition for promotion
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Publish and publish

- with little research activities
- with no grants
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Target disciplines: No infra.

Starting from the Head

- Primary and secondary school: undeveloped, no skills
- Bachelor degrees: too weak, no skills, no spirit of responsibility, let me graduate.
- Weak graduation projects

We want graduate studies like in North-America Europe and Japan

Fake collaboration

Importing talented researchers

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Malicious relationship

- Systems: changing the rules
- Researchers: changing the tactics
- Do you want more publications? Ok
- Put my name and I put yours as co-author
 - Fake collaborations
 - Publications and little work
 - No formation of students
 - Review articles (single author)
 - Chose reviewers
 - Organizing fake conferences

Biometrics

 Biometrics (since the 1920s)
 Alan Pritchard: the application of mathematics and statistical methods to books and other media of communication. *Journal of Documentation* (1969) 25(4):348-349

Evaluation of the researcher and

Evaluation of the communication medium

Some laws and methods

Lotka's law (1926)

Bradford's law (1934, 1948)

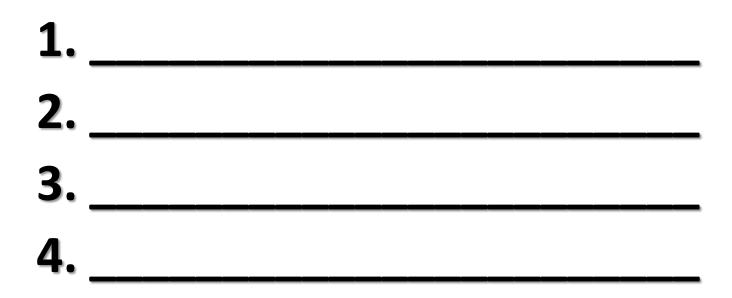
•Zipf's law (1935, 1949)

Impact factor (1955)

Ocitation structures

Co-citation structures

Name 3 different metrices of biometrics



Impact Factor

Impact Factor IF: Eugene Garfield1955

- IF= # of citations received in current year by papers published in the journal in the previous 2 years
- divided by
- # of papers published in the journal in the previous
 2 years
 - Ø But
 - Papers do not have the same impact
 - Normalization: various fields
 - Length of period (2 vs 5, ... years)
 - Types: Review articles, ...
 - Ocitations for free

Impact Factor IF: continue

IF= # of citations received in current year by papers published in the journal in the previous 2 years

• divided by

of papers published in the journal in the previous
 2 years

Ø But

- Open access: more cited, conf/journ
- Letter (short content but big number)
- IF and selectivity: conf/journ
- New field, people cite you
- Explanatory illustrative article (cited more) based on pioneer works (less)
- Pedagogical books (cited more) based on pioneer works (cited less)



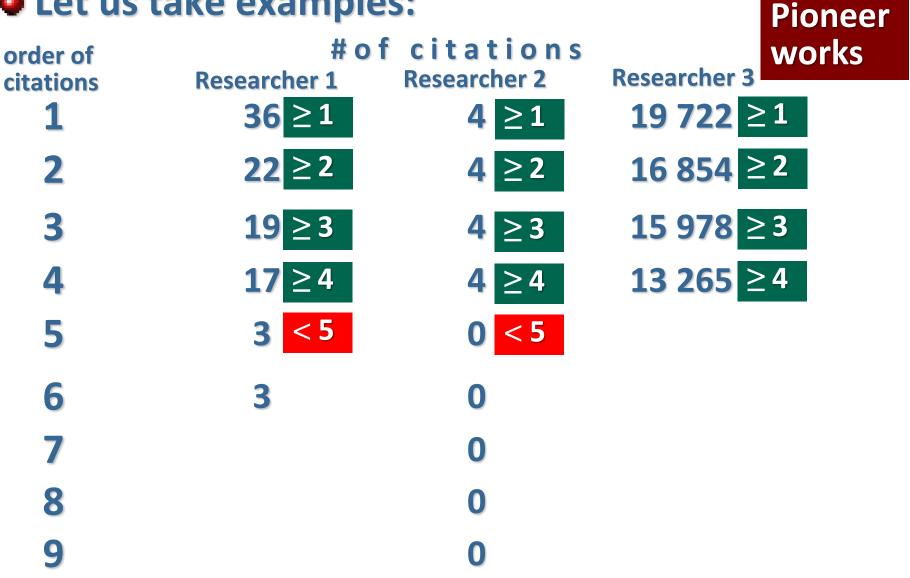
Is the impact factor normalized

Social science paper are generally cited more than medicine related papers.

H-index

H-index

Let us take examples:



Quiz 4

Output to the second second

Conclusion

Conclusions

IF may be misleading

- # citations may be misleading
- H-index may be misleading