# ارتقاء اثرگذاری فعالیت های پژوهشی

محمدامین عرفان منش عضو هیات علمی دانشگاه اصفهان

۶ دی ۱۳۹۶

#### Components of the Research Process

- \* Input (Funding, Manpower, Research Infrastructure, Information resources ...)
- \* Process (Efficiency, Collaboration, ...)
- \* Output (Scholarly, Educational, Technological, Economic, ...)
- \* Impact (Scholarly, Educational, Societal)

### What is Impact?

# What is impact?

Research Impact

Scholarly engagement

Knowledge exchange

Beyond academia

Academic impact

Alt Metrics

Impact Factor Impact

### What is Impact?

\* Scholarly Impact?

Contribution in science and knowledge growth.

Influence on scholarly communications.

Research Quality and excellence.

- \* Educational Impact?
- \* Societal Impact?

Benefits in the real world

Effect on the economy, society, culture, health Improving the quality of life ...

\* Need to have evidence for impact assessment.

## Scholarly Impact

- \* Productivity and citation indicators.
- \* H-family indices.
- \* Indicators of Inter-, multi- or cross disciplinary research.
- \* Scholarly awards.
- \* Membership of scientific committees.
- \* Editing and reviewing.
- \* Social web presence and mentions (Altmetrics).
- \* Usage metrics.
- \* Journal metrics.
- \* Diversity of communication outlets.
- \* Knowledge transfer and patents.

### **Educational Impact**

- \* Teaching awards.
- \* Syllabus mentions.
- \* Textbook sales.
- \* Invited lectures.
- \* ...

#### Societal Impact

- \* Citations in policy documents, news outlet ...
- \* Public talks.
- \* Mentions in social media.
- \* Media performances.
- \* Essays in newspapers, magazines ...
- \* Consultancies.
- \* Public engagement.
- \* Start-ups.
- \* Job creation ...

## Assessing Research Impact?

- \* Peer Review (Expert Judgments)
- \* Scientometric Indicators.

#### The basket of metrics





Top scorer in NBA is Kevin Durant with 849 goals



Top scorer in Premier league is Luis Suarez with 31 goals

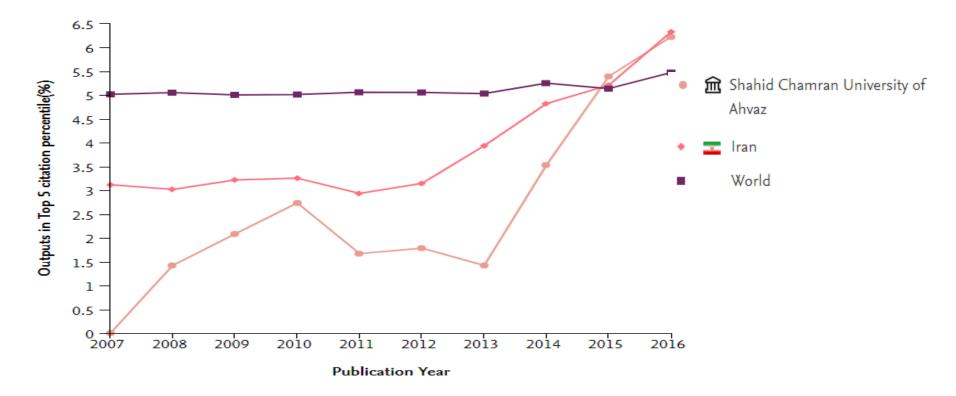
Can we conclude that Durant is a better sportsman?

#### Maximizing Research Impact

- \* Conducting High Quality Research.
- \* Writing for International Audiences.
- \* Publishing in High Impact Journals.
- \* Collaborating with Other Researchers.
- \* Increasing the Visibility of Research Output.
- \* Communicating & Promoting Research Outputs.

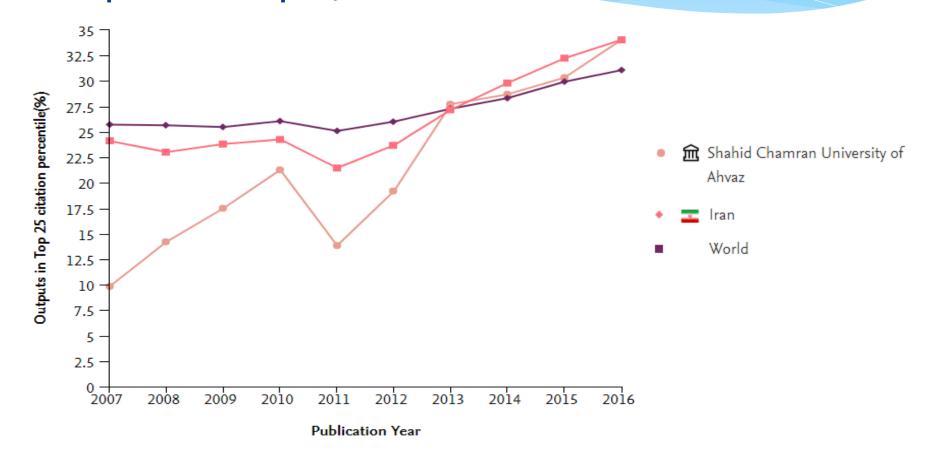
### Conducting High Quality Research

- \* Higher quality research = Higher citation impact.
- \* Outputs in Top 5% Citation Percentiles:



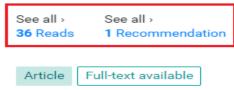
## Conducting High Quality Research

\* Outputs in Top 25% Citation Percentiles:



#### Writing for International Audiences

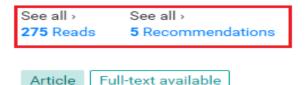
\* Papers written in English attract more readers and citations.



Composition of Journals' Editorial Board Members as an indicator of the Interdisciplinarity: The Case of Iranian Journals in Social Sciences and Humanities

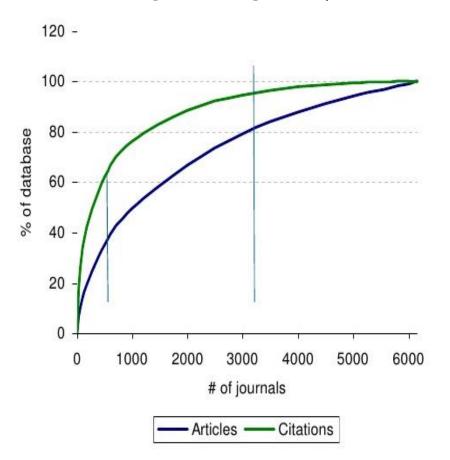
June 2017

Article



Publishing in Predatory Open Access Journals: A Case of Iran

#### \* The Pareto principle (80/20 rule).



#### 40% of the journals:

- 80% of the publications
- 92% of cited papers

#### 4% of the journals:

- · 30% of the publications
- 51% of cited papers

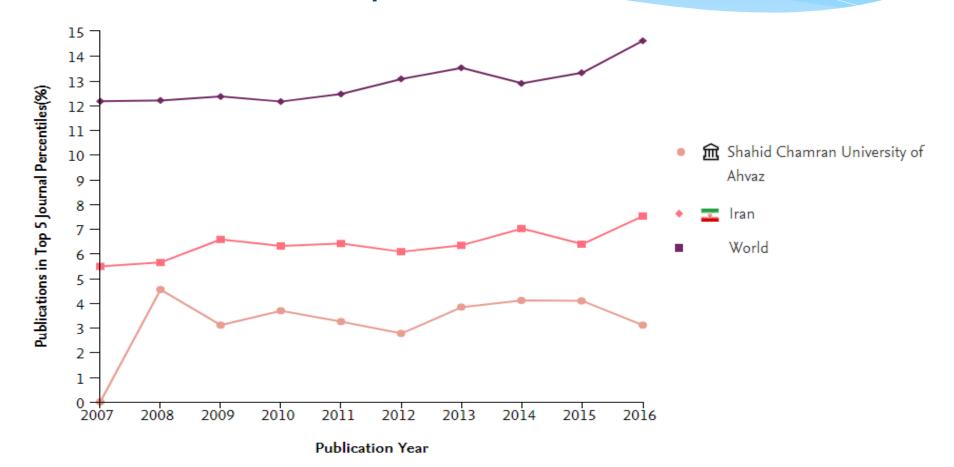
- \* Papers published in high impact journals receive more citations.
- \* Publishing in high impact journals = Reputation.
- \* ISI-indexed journals, Scopus-indexed Journals, ISC-indexed journals, علمی پژوهشی و ترویجی





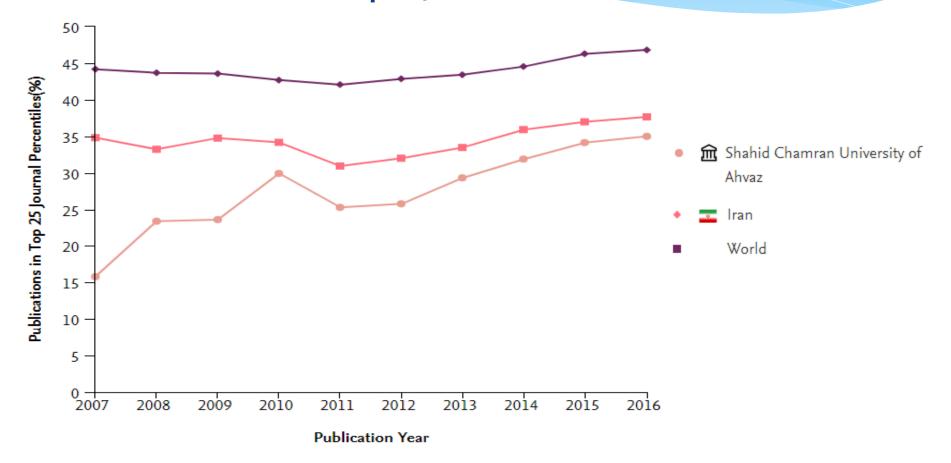
### Conducting High Quality Research

\* Publications in Top 5% Journal Percentiles:

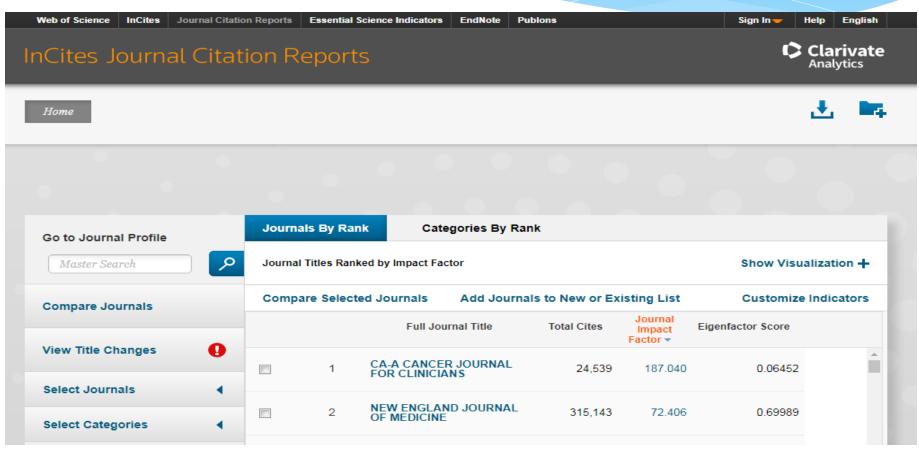


## Conducting High Quality Research

\* Publications in Top 25% Journal Percentiles:



\* Journal Citation Reports (JCR) – Clarivate Analyrics

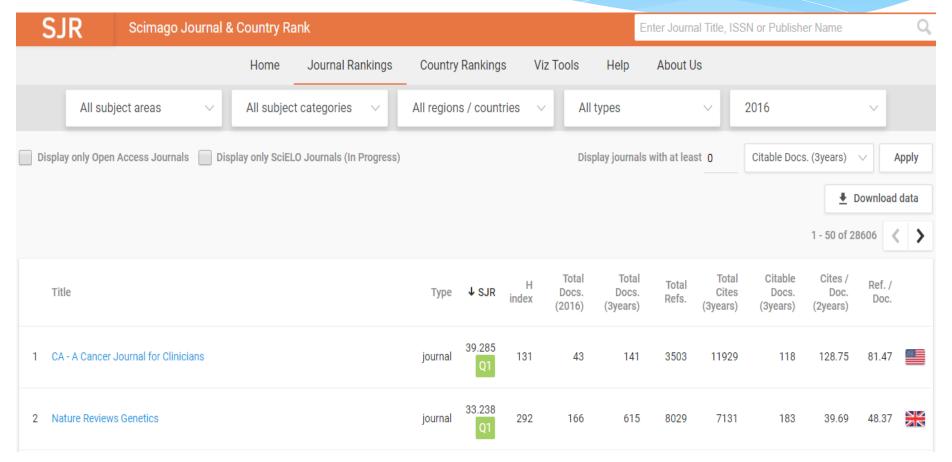


\* Journal Evaluation Indicators:

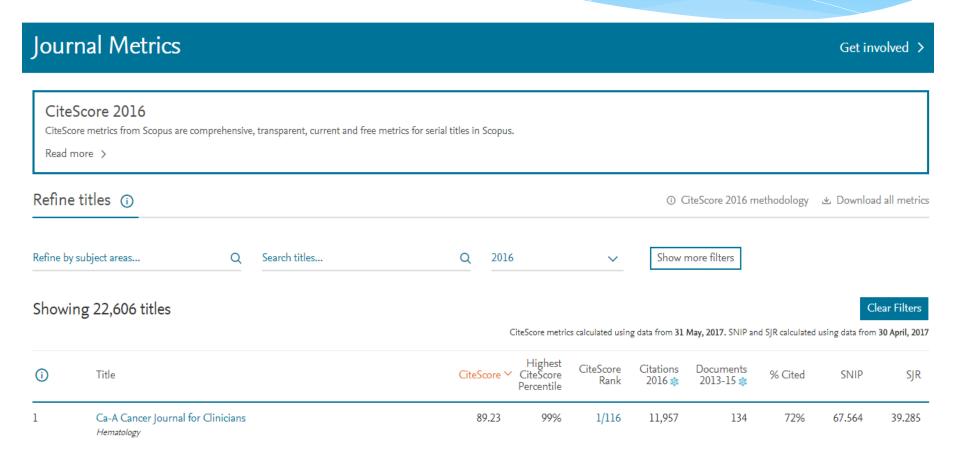
#### JCR:

Journal Impact Factor (JIF)
Impact Factor without Journal Self-cites
5 Year Impact Factor
Immediacy Index
Article Influence Score
Eigenfactor
JIF Percentile
JIF Quartile

Scimago Journal Ranking (SJR) - Scopus



\* Journal Metrics - Scopus



\* Journal Evaluation Indicators:

#### SJR:

SJR

Cite Score

Source Normalized Impact per Publication (SNIP)

Field-weighted Citation Impact

H-Index

\* Journal Evaluation Indicators:

"Using the Impact Factor alone to judge a journal is like using weight alone to judge a person's health."



#### Disciplinary Differences in Journal Metrics:

The New England Journal of Medicine (impact factor: 72.406)

Chemical Reviews (impact factor: 47.928)

Lancet (London, England) (impact factor: 47.831)

Nature Reviews. Molecular Cell Biology (impact factor: 46.602)

JAMA - Journal of the American Medical Association (impact factor: 44.405)

Nature Biotechnology (impact factor: 41.667)

Nature (impact factor: 40.137)

Nature Reviews Immunology (impact factor: 39.932)

Nature Materials (impact factor: 39.737)

Nature Nanotechnology (impact factor: 38.986)

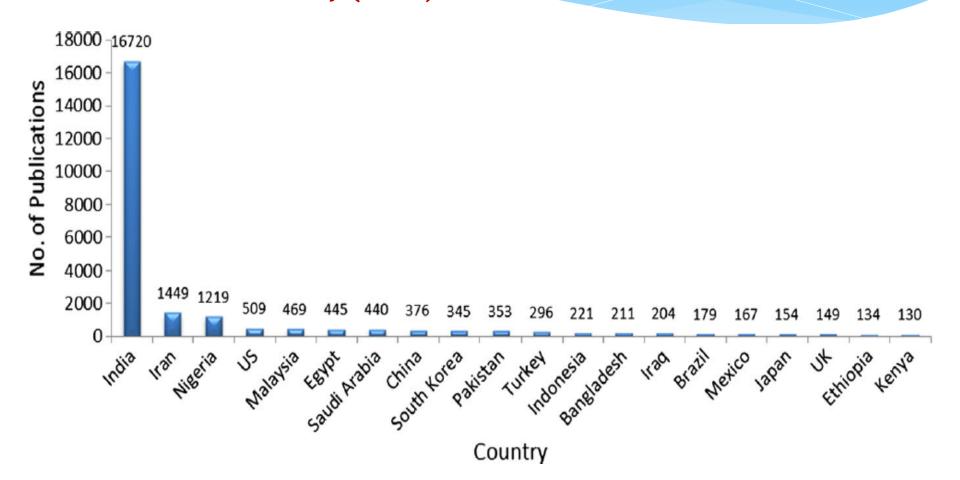
Chemical Society Reviews (impact factor: 38.618)

Science (New York, N.Y.) (impact factor: 37.205)

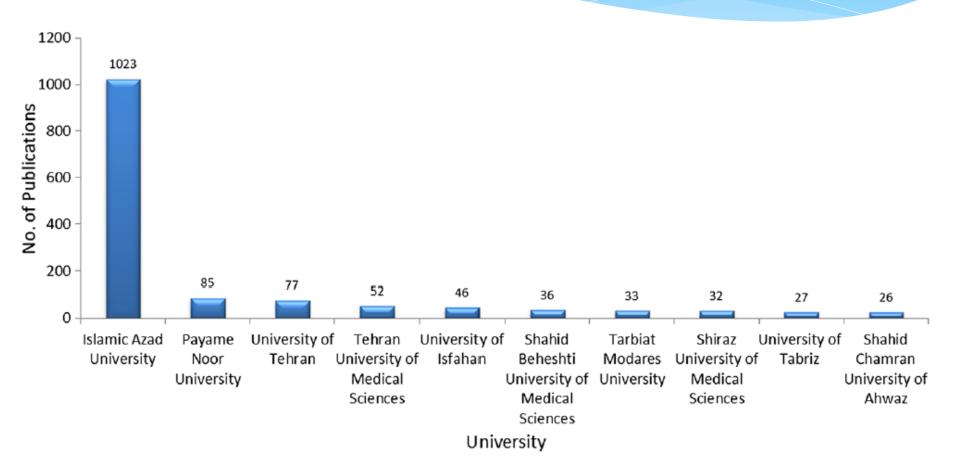
Nature Reviews Cancer (impact factor: 37.147)

Cell (impact factor: 30.410)

\* Beware of Predatory (Fake) Journals:



\* Beware of Predatory (Fake) Journals:



- \* Characteristics of Predatory Journals:
- \* Bombarding the target group of researchers with spam e-mails to solicit submission of manuscript or serve on editorial boards.
- \* Accepting manuscripts without any peer-review or quality control.
- \* Charging APC without providing any publishing services and editorial oversight.
- Claiming to operate in a western country to appear reputable while in most of the cases really based in Asian of African countries.

- \* Characteristics of Predatory Journals:
- \* Utilizing bogus journal impact factors and misleading metrics as an indication of their value.
- \* Appointing well-known academics as editorial board members without their permission and knowledge or indicating names that do not exist at all.
- \* Claiming to have their content indexed in prestigious citation indices like Clarivate Analytic's Web of Science or Elsevier's Scopus.

- \* Characteristics of Predatory Journals:
- Imitating the name, logo, design or features of prominent and respected scholarly journals
- \* Using interesting words like "International", "European", "American", "Canadian", "Australian" and etc. in the title of journals, whereas they operate in developing countries.
- \* Publishing papers from a wide range of scientific fields in order to attract more submissions.

- \* Characteristics of Predatory Journals:
- \* Promising prompt turnaround time from submission to acceptance and immediate publication of accepted manuscripts.
- \* Maintaining poorly designed websites with lots of spelling mistakes and grammatical errors.
- Exhibiting poor quality copyediting and proofreading.

- \* Characteristics of Predatory Journals:
- \* Providing inaccurate or incomplete contact information and hiding their ownership and location.
- \* Receiving Manuscripts through general e-mail services such as Gmail or Yahoo.
- \* Claiming membership in World Association of Medical Editors (WAME), Committee on Publication Ethics (COPE) or other ethical committees.





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#### Impact Factor



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National Conference on Recent Treands on Computer Technology NCRTCT-16, Organized by Department of MCA, SBCEC, Arni, India, on 18 March 2016. Click to Download Paper

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Last Date of Submission

28-Oct-2016

Notification Deadline

in 5 Days

Publication Date

in 3 days

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Scholarly Peer Review Research Publication Journal ISSN - 2394-5788

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### Publishing in High Impact Journals

- \* Useful Resources to Spot Predatory Journals:
- \* Beall's list of predatory publishers and journals (https://predatoryjournals.com).
- \* Black list of the Ministry of Science, Research and Technology of Iran (https://rppc.msrt.ir/fa).
- Black list of the Ministry of Health and Medical Education of Iran (http://blacklist.research.ac.ir/).

# Publishing in High Impact Journals

Beall's List: Potential, possible, or probable predatory scholarly open-access publishers



### Scholarly Open Access Critical analysis of scholarly open-access publishing

About the Author LIST OF PUBLISHERS Appeals Disclaimer Research

LIST OF INDIVIDUAL JOURNALS.

#### LIST OF PUBLISHERS

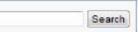
#### Beall's List:

#### Potential, possible, or probable predatory scholarly open-access publishers

This is a list of questionable, scholarly open-access publishers. We recommend that scholars read the available reviews, assessments and descriptions provided here, and then decide for themselves whether they want to submit articles, serve as editors or on editorial boards. The criteria for determining predatory publishers are here.

We hope that tenure and promotion committees can also decide for themselves how importantly or not to rate articles published in these journals in the context of their own institutional standards and/or geocultural locus. We emphasize that journal publishers and journals change in their business and editorial practices over time. This list is kept up-to-date to the best extent possible but may not reflect sudden, unreported, or unknown enhancements

- o Abhinay
- o A M Publishers
- o Academe Research Journals
- o Academia Publishing
- o Academic and Business Research Institute
- o Academic and Scientific Publishing
- o Academic Journals



#### RECENT POSTS

- o Report Details Predatory Practices of Two Bosnian Journals
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- o What's Up with Dr.
- George Perry?
- o Appeal Process to be Implemented for This Blog's Lists
- o Documenting Plagiarism in the Journal of Academic and Business Ethics

- o March 2013
- o February 2013
- o January 2013
- o December 2012
- a November 2012
- o October 2012
- o September 2012
- p August 2012
- o July 2012
- o June 2012

### Collaborating with Other Researchers

\* Collaborative publications receive more citations.

\* Types of research collaborations:

Institutional

**National** 

International

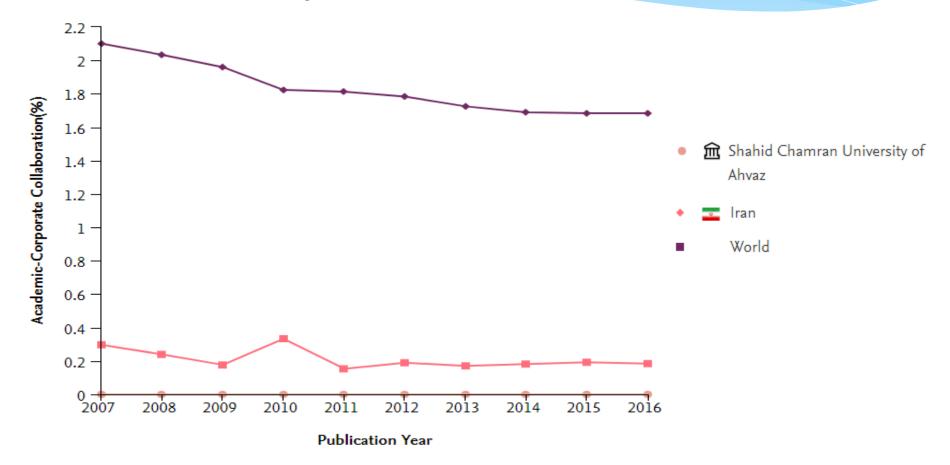
Academic-corporate

## Collaborating with Other Researchers

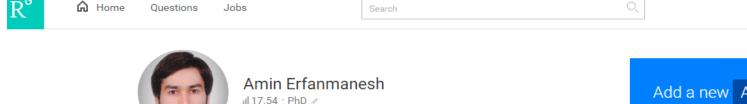
Institution	Co-authored publications ↓	Co-authors at the Shahid Chamran University of Ahvaz	Co-authors at the other institution	Field-Weigh 🗸
Islamic Azad University	279 ▼	242 🔻	332 ▼	0.65
<ul><li>Ahvaz Jundishapur</li><li>University of Medical</li><li>Sciences</li></ul>	163 🔺	173 🔺	256 ▲	0.83
University of Tehran	105 🔺	115 🛦	133 🛦	0.62
Institution	Co-authored publications ↓	Co-authors at the Shahid Chamran University of Ahvaz	Co-authors at the other institution	Field-Weigh 🗸
University of Saskatchewan	9 🛦	3 ▲	9 🔺	1.35
■ McGill University	7 🔺	3 🛦	1 🛦	4.20
University of Nebraska	5 🛦	4 🔺	1 🛦	1.54

### Collaborating with Other Researchers

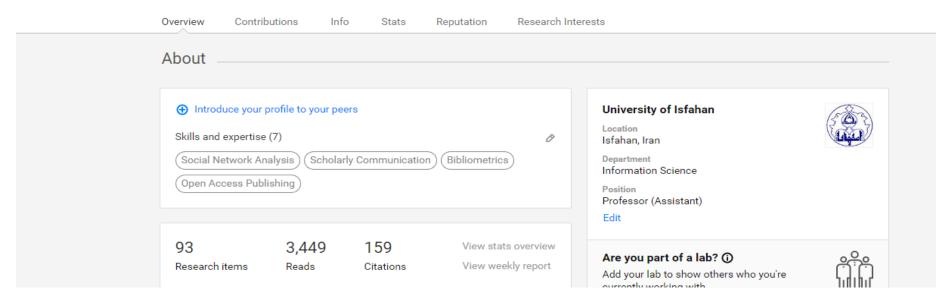
\* Academic-corporate Publications:



### \* ResearchGate:







### \* ResearchGate:

Overview



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#### \* ResearchGate:

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#### Status and Quality of Open Access Journals in Scopus

#### Abstract

Purpose: This research provides an extensive overview of open access journals' status and quality in 27 research areas based on all Scopus-indexed journals. It shows the volume of OA journals, proportion of publications in OA journals and the quality of these journals in comparison with subscription-based counterparts.

Design/methodology/approach: This research investigated 22256 active peer-reviewed journals indexed by Scopus in 2015. Data was gathered using Journal Metrics website. The current research adopted four indicators to compare the quality of OA and non-OA journals indexed in Scopus under each subject area, namely citedness rate, CiteScore, SNIP and SJR.

Findings: OA journals comprised approximately 17 percent out of the total journals indexed by Scopus in 2015. Results revealed an uneven spread of OA journals across disciplines, ranged from 5.5% to 28.7%. Studying the quality of journals as measured by CiteScore, SJR and SNIP leads us to the finding that in all research areas except for health profession and nursing, non-OA journals attain statistically significant higher average quality than do OA journals.

Originality/value: Although OA publishing improves the visibility of scholarly journals, it is not always coupled with increase in journals' impact and quality.

Keywords: Open Access Journals, Non-open Access Journals, Journal Quality, Scopus.

### \* ResearchGate:



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### \* Google Scholar:

≡ Google Scholar





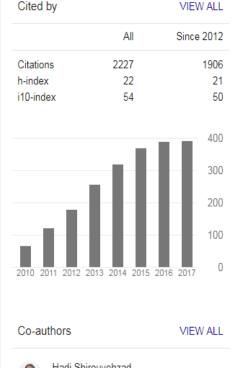
#### Prof Arash Shahin

Professor of Industrial Engineering-Quality Management, <u>University of Isfahan</u> Verified email at ase.ui.ac.ir - Homepage

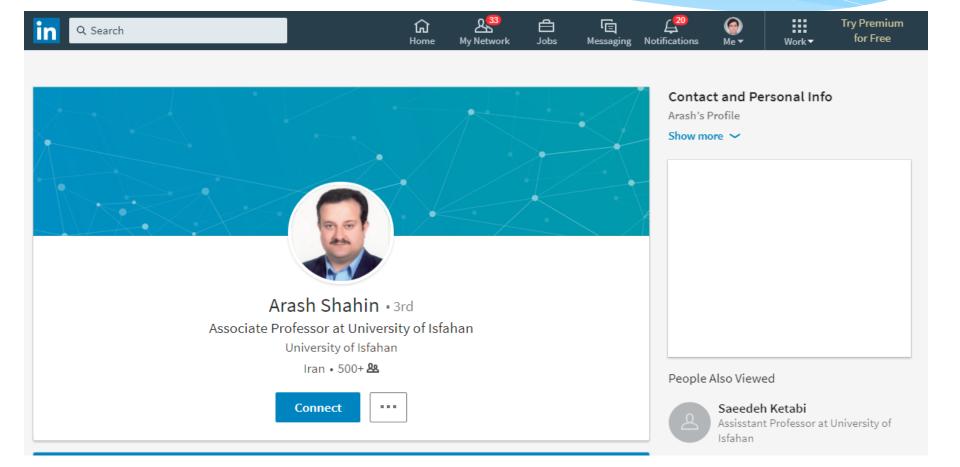
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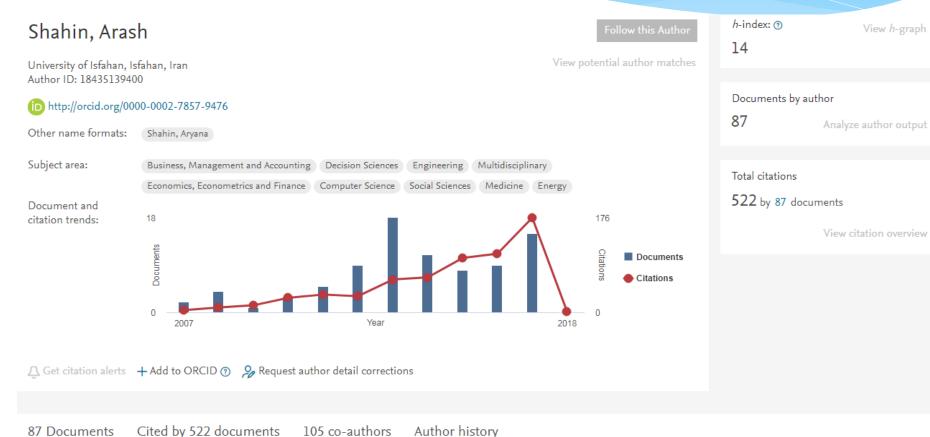
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SERVQUAL and Model of Service Quality Gaps: A Framework for Determining and Prioritizing Critical Factors in A Shahin Isfahan: Department of Management, University of Isfahan	225	2004
Prioritization of key performance indicators: An integration of analytical hierarchy process and goal setting A Shahin, MA Mahbod International Journal of Productivity and Performance Management 56 (3), 226-240	i 182	2007



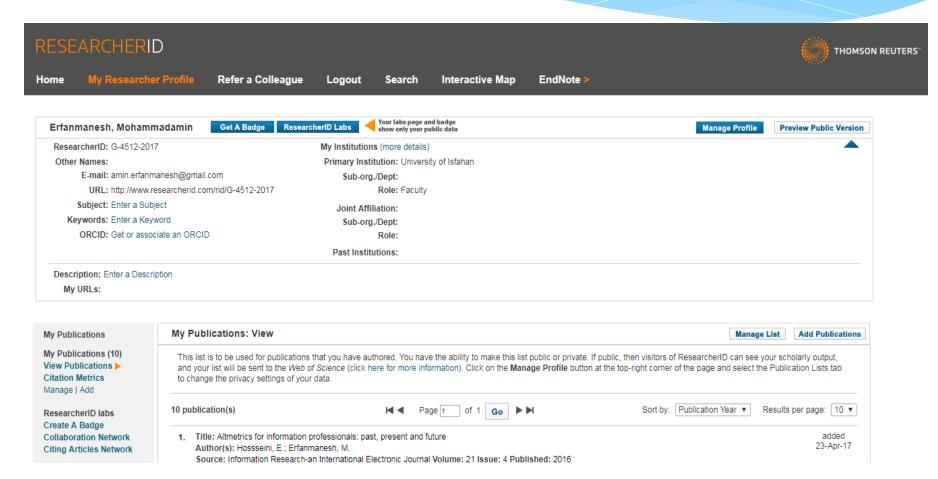
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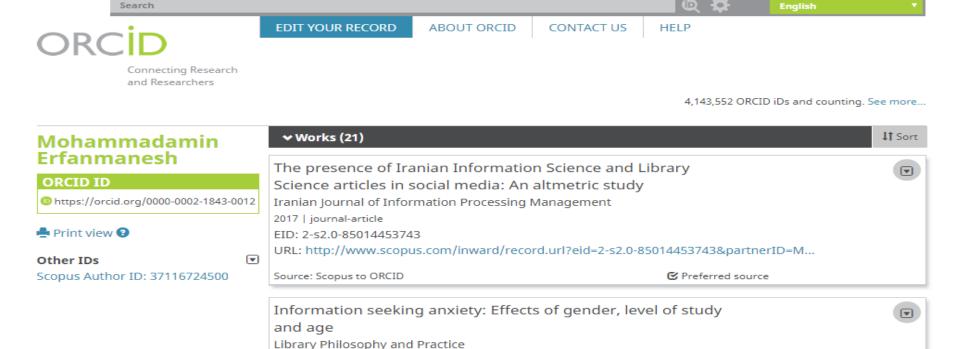
#### \* RESEARCHER ID:



\* Open Researcher & Contributor ID (ORCID):

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### Interlocking Editorships in Scientific Journals

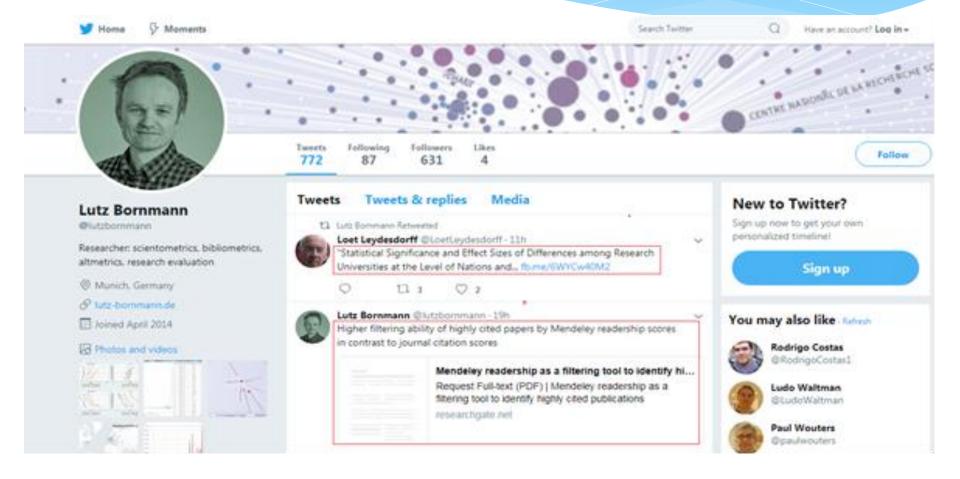
Authors

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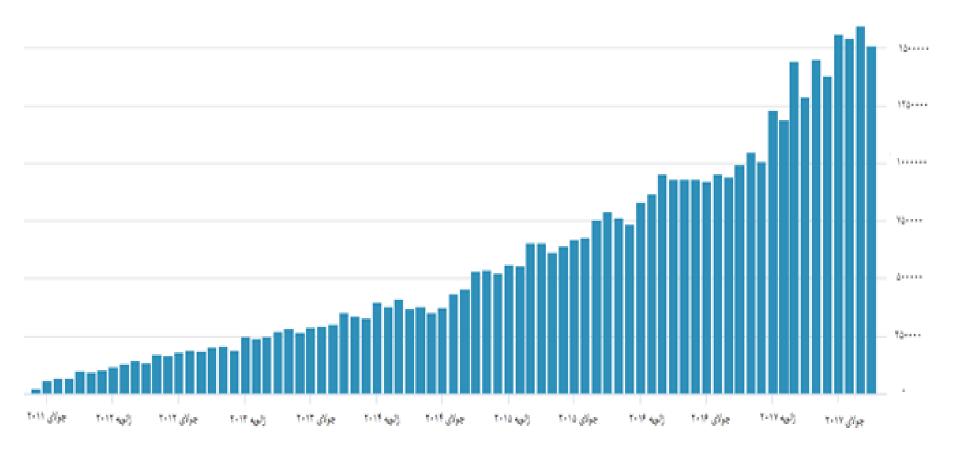


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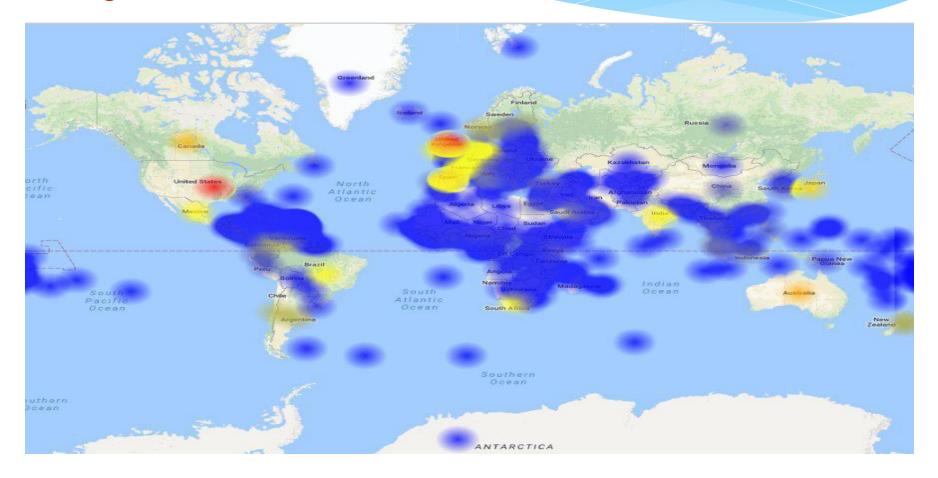
#### \* Twitter:



Temporal analysis of 45 million tweets of scholarly articles:

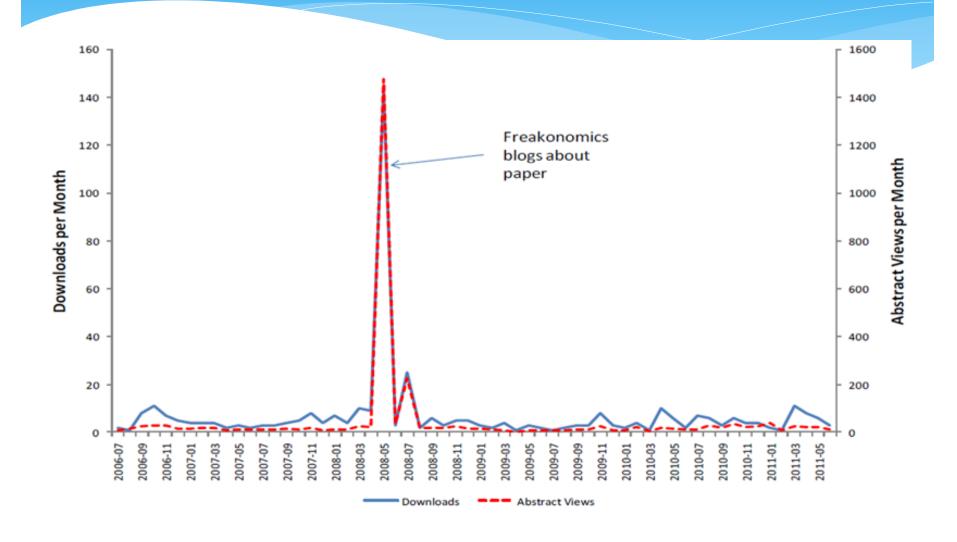


\* Geographic distribution of tweets of scholarly articles:





Academic journals with a presence on Twitter are more widely disseminated and receive a higher number of citations



\* Make Your Work Open Access (OA):

\* Gold Open Access:

**OA Journals** 

\* Green Open Access:

Institutional Repositories

Subject Repositories

**Personal Websites** 

- \* Attend & presented at conferences & seminars.
- \* Sharing of full-texts, data, ...
- \* Presence on social web tools.
- \* Sharing files on Slide Share ...

### \* Altmetrics:

- \* Number of views.
- \* Number of mentions.
- \* Number of comments.
- \* Number of recommendations.
- \* Number of bookmarks.
- \* Number of reads.
- Number of followers.
- \* Number of likes.
- \* Number of shares ...



### \* Altmetrics:

- \* Blogs.
- \* Microblogs.
- \* Social networking sites.
- \* Social reference managers.
- \* Social peer reviewing.
- \* Wikis.
- \* Data repositories.
- \* News outlets.

#### \* Altmetrics:



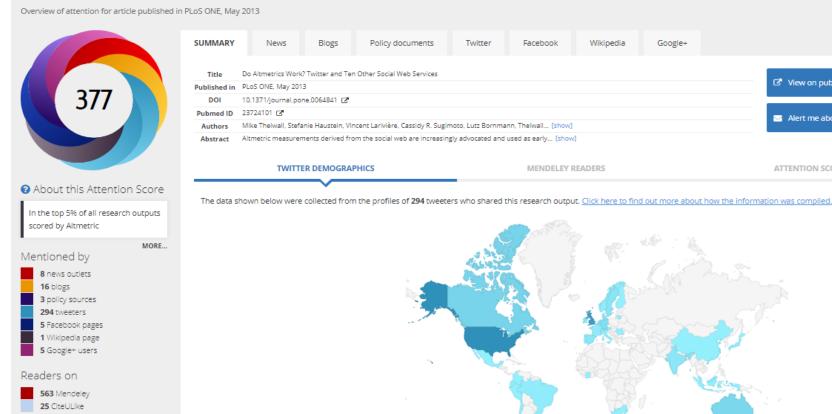
View on publisher site

Alert me about new mentions

ATTENTION SCORE IN CONTEXT

#### \* Altmetrics:

#### Do Altmetrics Work? Twitter and Ten Other Social Web Services



#### \* Altmetrics:



#### **Aust Science Channel**

@RiAus

RT @adamgdunn: Do Altmetrics Work? Comparing 11 alternative metrics with citations https://t.co/OWzpoUM6mQ https://t.co/kCvVyPzTiB #ECRchat

10 Oct 2017



#### **Noel Brewer**

@noelTbrewer

RT @adamgdunn: Do Altmetrics Work? Comparing 11 alternative metrics with citations https://t.co/OWzpoUM6mQ https://t.co/kCvVyPzTiB #ECRchat

10 Oct 2017



#### Adam Dunn

@adamgdunn

Do Altmetrics Work? Comparing 11 alternative metrics with citations https://t.co/OWzpoUM6mQ https://t.co/kCvVyPzTiB #ECRchat

10 Oct 2017



#### Elizabeth Somerville

@ElizabethKF

First #UniSMData tweet. The papers that came out of the thread that suit my needs best are https://t.co/yqc8rci684 https://t.co//B1WJegXAr

19 Aug 2017



#### Elizabeth Somerville

@ElizabethKF

@was3210 @AMLTaylor66 @BeddoeE @jonbolton @Lindsey\_Pike @HannahnagroM @jswec @MichelleLefevr1 @VivCree @Harr\_Ferguson @LSEImpactBlog Thank you. I think this one https://t.co/yqc8rczGZC could be helpful



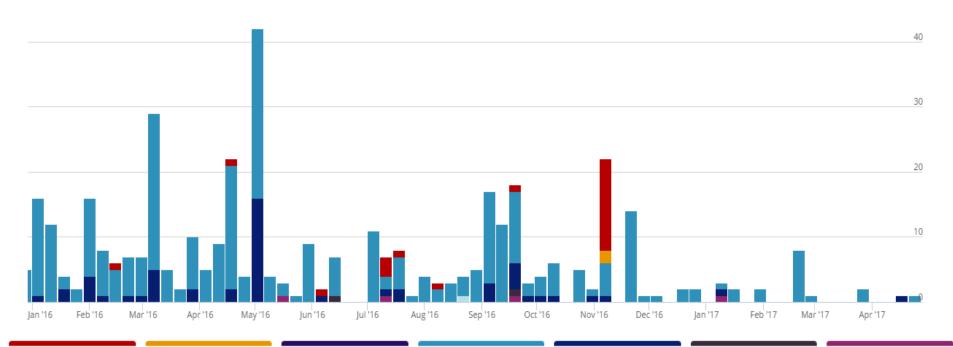
#### Biblioteca Ravignani

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RT @realscientists: Here is an interesting article "Do Altmetrics Work? Twitter and Ten Other Social Web Services" https://t.co/ND97bEaH8d ...

17 Jul 2017

\* Altmetric Presence of UI Articles:



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