

## **An introduction to H.Index**

**H-index is one of the scientometric indices that measures both the output and the impact of the articles published by a researcher. This index was presented in 2005 by Prof. Hrisch, a physicist at the University of California.**

**H-index is determined based on the distribution of citations of a researcher's published documents. This index can also be calculated for a group of researchers such as a department, center or university.**

**According to the definition, if each of the NPs of a researcher's articles have at least H citations, and the rest of his articles, i.e. NP-H of his article, are cited less than H times, then the researcher has a profile equivalent to H. For example, if a researcher's H-index is 5, it means that this researcher has at least 5 published articles, each of which has at least 5 citations. In other words, other articles of this researcher have less than 5 citations.**

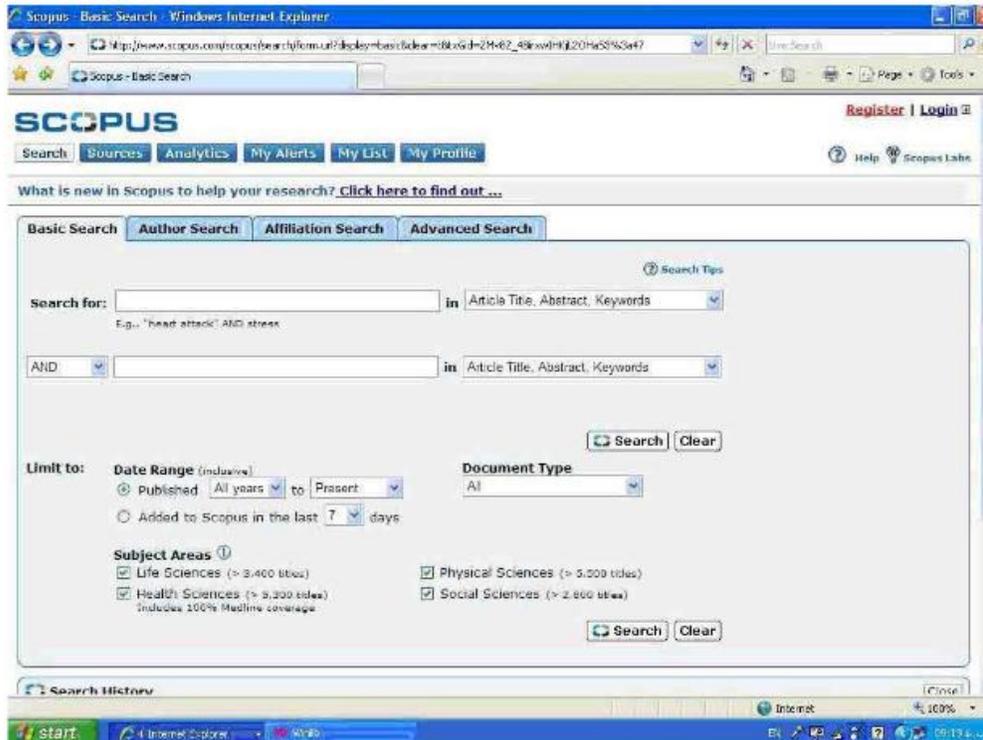
**Therefore, the H-index is the result of the balance between the number of publications and the number of citations per article. This index is designed to enhance other science measurement indicators such as total number of articles and total number of citations to distinguish influential researchers from those who simply publish a large number of articles. This index is used to compare researchers with the same field of work.**

**Web databases for calculating this index include: ESS: Web of Science, Scopus, and Google Scholar, the first two can be accessed by membership and the last one as free access by using the publish or perish software. Is .**

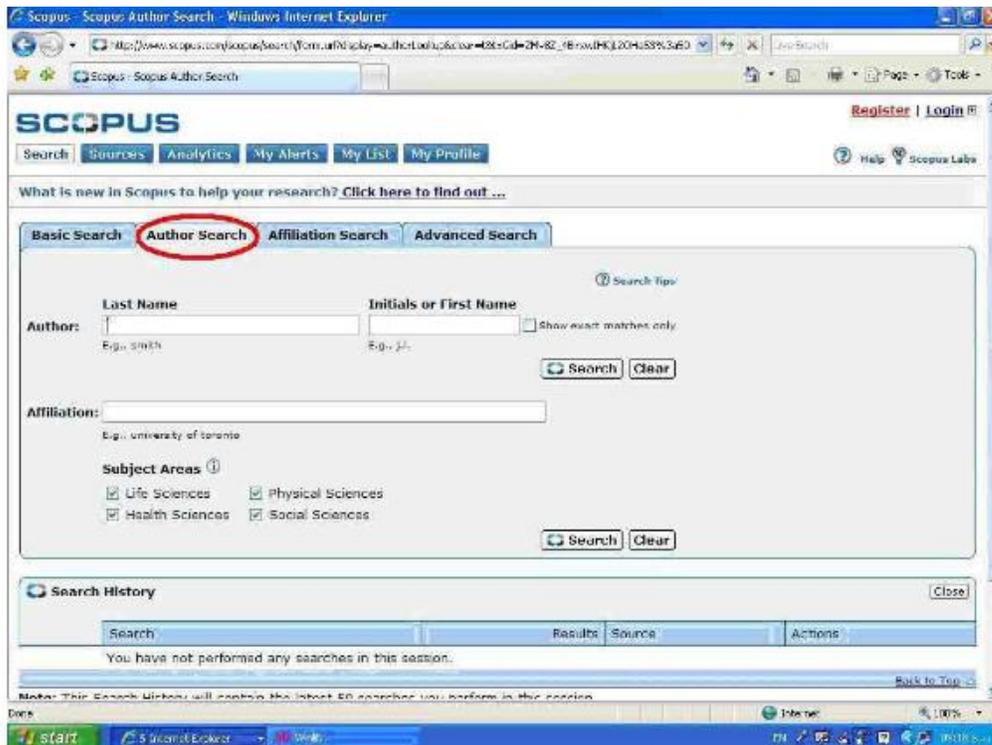
### **H-index calculation**

**In order to determine the H-index, people can calculate their H-index as follows and print the result based on the Scopus database.**

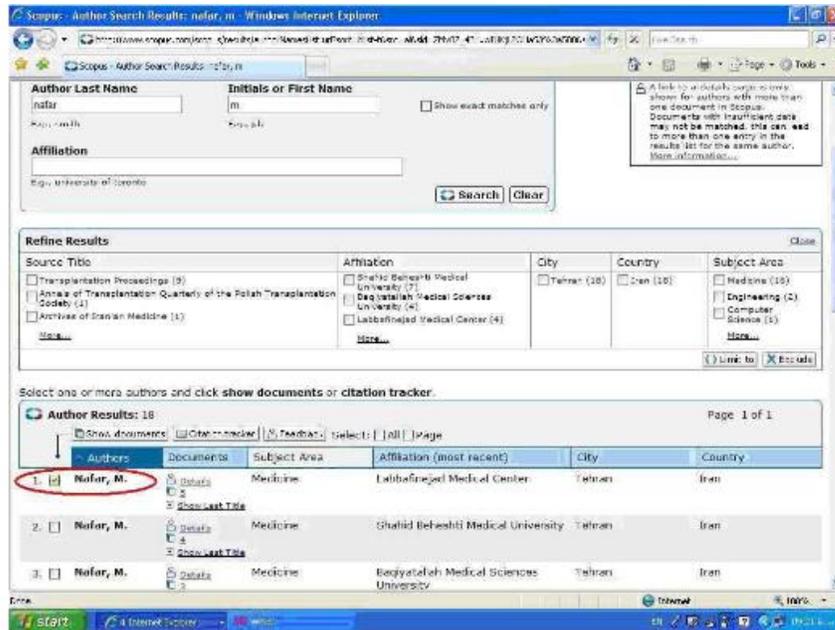
# 1-Login to the Scopus database website at the address: [www.scopus.com](http://www.scopus.com).



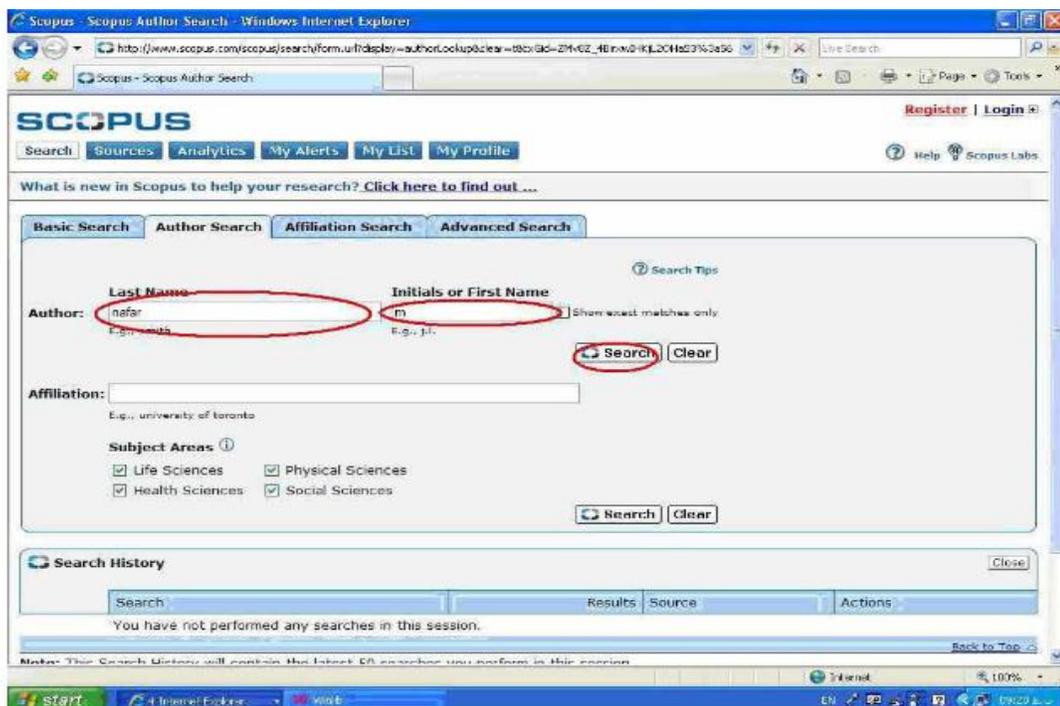
## 2-Selection Author search.



3-Enter the last name in the section Last Name and First Name and confirm the information on the search.



4-Choose your own name by ticking the box next to the name of the relevant faculty.



## 5-Selection Show Document.

The screenshot shows the Scopus Author Search Results page for 'nafar, m.'. The search criteria include Author Last Name (nafar) and Initials or First Name (m). The Refine Results section shows filters for Source Title, Affiliation, City, Country, and Subject Area. The main results table lists documents by Nafar, M. with columns for Documents, Subject Area, Affiliation, City, and Country. A red circle highlights the 'Show documents' link in the navigation bar.

Documents	Subject Area	Affiliation (most recent)	City	Country
1	Medicine	Labbafnejad Medical Center	Tehran	Iran
2	Medicine	Shahid Beheshti Medical University	Tehran	Iran
3	Medicine	Banavastalah Medical Sciences	Tehran	Iran

## 6-Selection of faculty member related results and selection View Citation Overview In order to get H-index.

The screenshot shows the Scopus Results page for 'Nafar, M.' with 5 results. A red circle highlights the 'Citation tracker' link. A red oval highlights the first result, 'Living unrelated versus living related kidney transplantation: 20 Years' experience with 2155 cases'. The citation overview for this result shows 2 citations.

Document (sort by relevance)	Author(s)	Date	Source Title	Cited By
1 Living unrelated versus living related kidney transplantation: 20 Years' experience with 2155 cases	Simforoosh, N., Basiri, A., Fattahi, M.F., Einollahi, B., Firoozan, A., Pour-Reza-Gholi, F., Nafar, M., Farrokhi, F.	2006	Transplantation Proceedings 38 (2), pp. 422-425	2
2 Signs and symptoms of cytomegalovirus disease in kidney transplant recipients	Pour-Reza-Gholi, F., Labibi, A., Farrokhi, F., Nafar, M., Firoozan, A., Einollahi, B.	2005	Transplantation Proceedings 37 (7), pp. 3056-3058	5
3 Potential risk factors for hypersensitization reflected by panel-reactive antibodies in dialysis patients	Pour-Reza-Gholi, F., Daneshyar, S., Nafar, M., Firoozan, A., Farrokhi, F., Einollahi, B.	2005	Transplantation Proceedings 37 (7), pp. 2936-2938	1
4 Kidney retransplantation in comparison with first kidney transplantation	Pour-Reza-Gholi, F., Nafar, M., Saadnia, A., Farrokhi, F., Firoozan, A., Simforoosh, N., Basiri, A., Einollahi, B.	2005	Transplantation Proceedings 37 (7), pp. 2962-2964	2
5 Pregnancy in kidney transplant recipients	Pour-Reza-Gholi, F., Nafar, M., Farrokhi, F., Entezani, A., Tahs, B., Firoozan, A., Einollahi, B.	2005	Transplantation Proceedings 37 (7), pp. 3090-3092	4

## 7-Get h-index and print results.

Scopus - Document Citation Overview - Windows Internet Explorer

http://www.scopus.com/scopus/citation/individual?doi=10.1016/j.jbi.2005.05.011&origin=resultlist

Quick Search

### Citation Overview Citations received since 1996

This is a citation overview for a set of 5 documents.

**Overview options**

Exclude from citation overview:  Self citations of all authors

Sort Documents: Year descending | Data Range: 2006 to 2008

5 Cited Documents <a href="#">View list</a>	Total	Citations				v2006	total
		v2006	2006	2007	2008		
1 <input type="checkbox"/> 2006 Living unrelated versus living r...			4	2	2		7
2 <input type="checkbox"/> 2005 Signs and symptoms of cytomegalo...			2	2	1		5
3 <input type="checkbox"/> 2005 Potential risk factors for hyper...				1	1		1
4 <input type="checkbox"/> 2005 Kidney retransplantation in comp...					2		2
5 <input type="checkbox"/> 2005 Pregnancy in kidney transplant r...			1	2	1		4
<b>Total</b>	<b>0</b>	<b>2</b>	<b>10</b>	<b>7</b>	<b>19</b>	<b>0</b>	<b>19</b>

Display: 25 Documents 1 to 5

**h index = 3**

**Document h index**

Of the 5 documents considered for the h index, 3 have been cited at least 3 times.

Scopus does not have complete citation information for articles published before 1996. [More information](#)

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