

# Research Performance Measurement:

## ***h-index***

- ***Finding author's h-index***

**Disclaimer:**

All contents are for  
educational purposes  
only

# What is H-Index

- short form for **highly cited index**
- was developed in **2005** by **Professor Hirsch**
- measure both the **productivity** and **citation impact** of the published body of work of a scientist or scholar.
- based on the set of the scientist's **most cited papers** and the **number of citations** that they have **received** in other publications.

# Formula

- A scientist has index  $h$  if  $h$  of his or her NP (number of papers) **papers have at least  $h$  citations each** and **the other  $(NP - h)$  papers have fewer than  $h$  citations each.**

# EXAMPLE 1

- **Lecturer A** published 24 papers which are ranked in descending citation order.

Article rank position	1	2	3	4	5	6	...	→	22	23	24
Citation Count	15	10	8	7	5	4	...	→	0	0	0

**Lecturer A** has an **h-index 5** if 5 of his 24 papers have at least 5 citations each.

## EXAMPLE 2

- **Professor B** published 185 papers which are ranked in descending citation order.

Article rank position	1	2	3...	→	28	29	30	...	→	183	184	185
Citation Count	191	139	102	→	29	29	28	...	→	1	0	0

**Professor B** has an **h-index 29** if 29 of his 185 papers have at least 29 citations each.

# EXAMPLE 3

A scientist has index  $h$  if  $h$  of his or her NP (number of papers) papers have at least  $h$  citations each and **the other (NP - h) papers have fewer than  $h$  citations each**

- **Professor C** published 35 papers which are ranked in descending citation order.

Article rank position	1	2	3...	→	15	16	17	...	→	33	34	35
Citation Count	182	109	98	→	23	21	11	...	→	1	0	0

**Professor C** has an **h-index 16**.

# EXAMPLE 4

A scientist has index  $h$  if  $h$  of his or her NP (number of papers) papers have at least  $h$  citations each and **the other (NP -  $h$ ) papers have fewer than  $h$  citations each**

- **Lecturer D** published 16 papers which are ranked in descending citation order.

Article rank position	1	2	3	4	5	6	7...	→	..13	14	15	16
Citation Count	51	58	27	18	10	4	4	→	3	1	0	0

**Lecturer D** has an **h-index 5**.

# How to Find an Author's *h- Index* Using **Scopus**



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Citations: 2908 total citations by 2102 documents

*h*-index: 31 

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Relationship Between Metabolites Composition and Biological Activities of <i>Phyllanthus niruri</i> Extracts Prepared by Different Drying Methods and Solvents Extraction	Mediani, A., Abas, F., Khatib, A., (...), Ismail, A., Lajis, N.H.	2015	Plant Foods for Human Nutrition	0
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Rheological Properties of Modified Starch—Whey Protein Isolate Stabilized Soursop Beverage Emulsion Systems	Cheong, K.W., Mirhosseini, H., Leong, W.F., (...), Basri, M., Tan, C.P.	2015	Food and Bioprocess Technology	0
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Review on the Current State of Diacylglycerol Production Using Enzymatic Approach	Phuah, E.-T., Tang, T.-K., Lee, Y.-Y., (...), Tan, C.-P., Lai, O.-M.	2015	Food and Bioprocess Technology	0
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Entrapment of Palm-Based Medium- and Long-Chain Triacylglycerol via Maillard Reaction Products	Lee, Y.-Y., Tang, T.-K., Tan, C.-P., (...), Karim, N.A.A., Lai, O.-M.	2015	Food and Bioprocess Technology	0
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Documents (207)

***h-index (31)***

Citations (2906)

Co-authors (150)

Analyze documents published between

1999

to 2015

Exclude self citations

Exclude citations from books

Update Graph

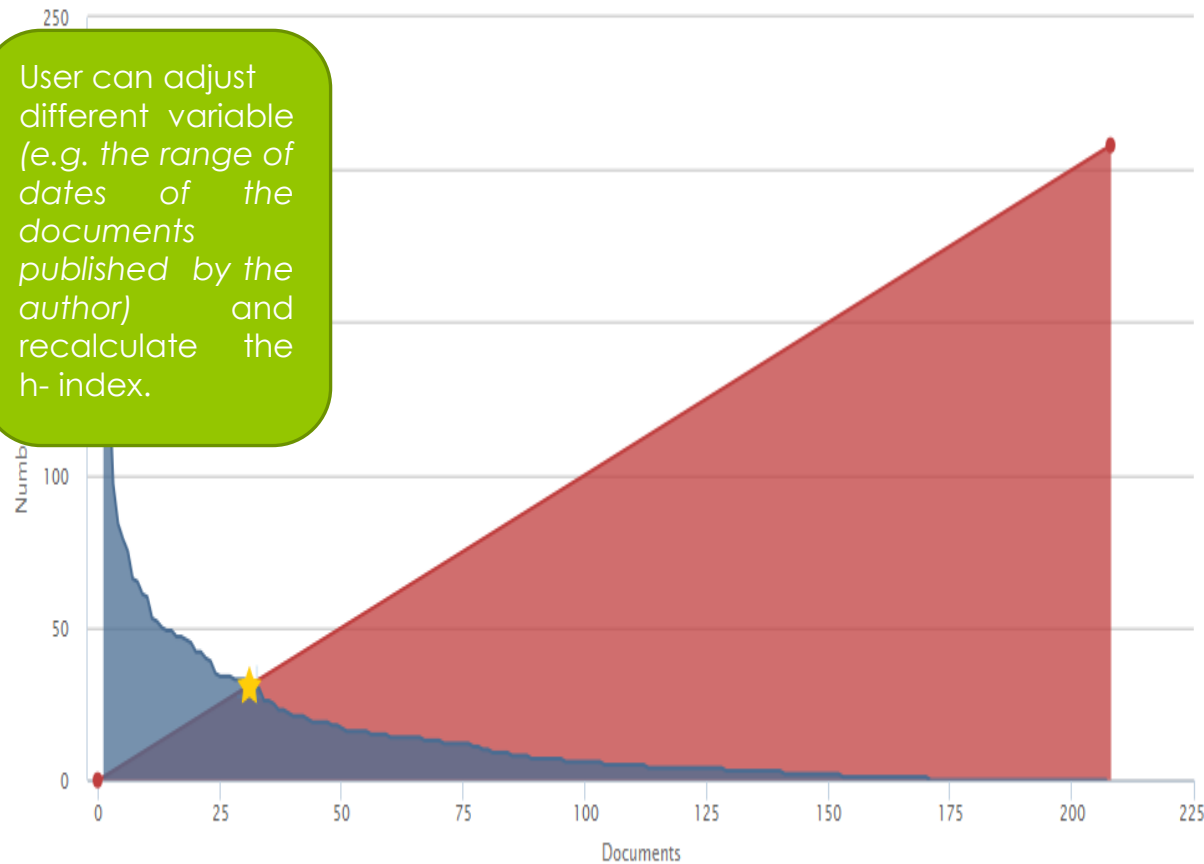
Documents	Citations	Title
22	40	Effect of polyglycerol ester...
23	39	Quantitative differential scanning
24	35	Detection of lard adulteration in R...
25	34	Effect of processing conditions on ...
26	34	Modeling the physicochemical pro...
27	34	Solid-phase microextraction for he...
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29	33	Droplet characterization and stabil...
30	33	Comparative differential scanning ...
31	31	Influence of pectin and CMC on ph...
32	31	Stability and rheology of concentra...
33	30	Effect of Arabic gum, xanthan gum ...
34	26	Lipase-catalysed production and c...
35	26	Effects of microwave heating on th...
36	25	Phenolic acid analysis and antioxi...
37	23	Equilibrium headspace analysis o...

This author's *h-index* is 31

*H-index* result

The *h-index* is based upon the number of documents and number of citations.

User can adjust different variable (e.g. the range of dates of the documents published by the author) and recalculate the *h-index*.



Note: Scopus is in progress of updating pre-1996 cited references going back to 1970. The *h-index* might increase over time.

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THIS IS  
**THE END**

THANK YOU