

# Calculating h-index using Bibexcel

Select doc-file

Click here!

Select field type

The screenshot shows the Bibexcel software interface. The title bar reads "Bibexcel - A toolbox for bibliometricians, by Olle Persson. Version 2011-08-29". The menu bar includes "File", "Edit doc file", "Edit out-files", "Add data classify", "Analyze", "Misc", "Mapping", and "Help".

Annotations with arrows point to the following elements:

- Select doc-file:** Points to the file selection dialog box on the left, which shows a file explorer view with "cocit569.doc" selected.
- Click here!:** Points to the "Prep" button in the "Select field to be analysed, view file to get info about which fields are available." section.
- Select field type:** Points to the dropdown menu in the same section, which is currently set to "Any, separated field".
- Type author field tag:** Points to the "Old Tag" input field in the "Frequency distribution" section, which contains the text "au".

Other visible interface elements include:

- "Select file here" section with a "View file" button.
- "Select documents" and "Select rows" sections, each with a "Start" button.
- "Type new file name here" section with a text input field containing "c:\bibexcel\my data\cocit569.tx2".
- "The Box" section with a large empty text area.
- "The List" section with "Copy", "Paste", "Add", and "Clear" buttons, and a list of author and document information.
- "Frequency distribution" section with "Select type of unit" dropdown, "Start" button, and checkboxes for "Sort descending", "Remove duplicates", "Make new out-file", and "Fractionalize".
- "Old Tag" and "New Tag" sections with input fields and "Add field to units" / "Add new field to docs" buttons.
- "Search" and "View whole file" buttons at the bottom.

Type author field tag

Select out-file

The screenshot shows the Bibexcel software interface. The title bar reads "Bibexcel - A toolbox for bibliometricians, by Olle Persson. Version 2011-08-29". The menu bar includes "File", "Edit doc file", "Edit out-files", "Add data classify", "Analyze", "Misc", "Mapping", and "Help".

**Select file here:** A file explorer shows the directory "C:\Bibexcel\My data" with files "cocit569.doc", "cocit569.out", and "cocit569.tx2". The "cocit569.out" file is selected. Below the explorer is a text input field containing "cocit569.out" and a "View file" button.

**Select field to be analysed, view file to get info about which fields are available:** A dropdown menu shows "Any ; separated field" and a "Prep" button.

**Select documents:** A "Start" button.

**Select rows:** A "Start" button.

**The Box:** A text area containing "Doc: 569 prepared, n of units:1300 Look at:c:\bibexcel\my data\cocit569.out".

**Type new file name here:** A text input field containing "c:\bibexcel\my data\cocit569.tx2".

**Frequency distribution:** A section with a "Select type of unit" dropdown, a "Start" button, and checkboxes for "Sort descending", "Remove duplicates", "Make new out-file", and "Fractionalize". It also has input fields for "Min number", "Max number", and "Any number".

**Old Tag:** An input field containing "tc" and an "Add field to units" button.

**New Tag:** An empty input field and an "Add new field to docs" button.

**The List:** A list of 13 author names with their citation counts: 1 Hsu PY, 1 Pai NY, 1 Su YM, 2 Jank DA, 3 Garud R, 3 Raghuram S, 3 Tuertscher P, 4 Estabrooks CA, 4 Lavis JN, 4 Profetto-McGrath J, 4 Scott SD, 4 Wallin L, 4 Winther C, 5 Waajjer CJF, 5 van Bochove CA.

**Search and View whole file:** Buttons at the bottom right.

Type times cited field tag

Click here!

Now, we have 3 columns (doc nr+author+times cited)

The screenshot shows the Bibexcel software interface. The window title is "Bibexcel - A toolbox for bibliometricians, by Olle Persson. Version 2011-08-29". The menu bar includes "File", "Edit doc file", "Edit out-files", "Add data classify", "Analyze", "Misc", "Mapping", and "Help".

**Select file here:** A file explorer shows the "My data" folder selected. The file list contains "cocit569.doc", "cocit569.in1", "cocit569.out", and "cocit569.tx2". The "cocit569.in1" file is selected. A "View file" button is at the bottom right.

**Select field to be analysed, view file to get info about which fields are available:** A dropdown menu shows "Any ; separated field" and a "Prep" button.

**Select documents:** A "Start" button.

**Select rows:** A "Start" button.

**The Box:** A text area displays "READY! Have a look at the file: c:\bibexcel\my data\cocit569.in1".

**Type new file name here:** A text area displays "c:\bibexcel\my data\cocit569.tx2".

**Frequency distribution:** A section with a "Select type of unit" dropdown, a "Start" button, and checkboxes for "Sort descending", "Remove duplicates", "Make new out-file", and "Fractionalize". Input fields for "Min number", "Max number", and "Any number" are present.

**Old Tag:** A text input field contains "tc" and an "Add field to units" button.

**New Tag:** An empty text input field and an "Add new field to docs" button.

**The List:** A table with columns for document number, author, and citation count. Buttons for "Copy", "Paste", "Add", and "Clear" are above the table.

1	Hsu PY	0
1	Pai NY	0
1	Su YM	0
2	Jank DA	0
3	Garud R	0
3	Raghuram S	0
3	Tuertscher P	0
4	Estabrooks CA	0
4	Lavis JN	0
4	Profetto-McGrath J	0
4	Scott SD	0
4	Wallin L	0
4	Winther CO	0
5	Waaiker CJF	0
5	van Bochove CA	0

Buttons for "Search" and "View whole file" are at the bottom right.

Select cocit569.jn1

Type like this to get columns 2 and 3

The screenshot shows the Bibexcel software interface. The title bar reads "Bibexcel - A tool box for bibliometricians, by Olle Persson. Version 2011-08-29". The menu bar includes "File", "Edit doc file", "Edit out-files", "Add data classify", "Analyze", "Misc", "Mapping", and "Help".

**Select file here:** A file explorer window shows the directory "C:\Bibexcel\My data" selected. The file list contains "cocit569.doc", "cocit569.jn1", "cocit569.out", and "cocit569.tx2". The file "cocit569.jn1" is selected. Below the list, the path "c:\cocit569.jn1" is shown, and a "View file" button is present.

**Select field to be analysed, view file to get info about which fields are available:** A dropdown menu shows "Any ; separated field" and a "Prep" button.

**Select documents:** A "Start" button.

**Select rows:** A "Start" button.

**Type new file name here:** A text input field containing "c:\bibexcel\my data\cocit569.tx2".

**Frequency distribution:** A section with "Select type of unit" dropdown, a "Start" button, and input fields for "Min number", "Max number", and "Any number". There are also checkboxes for "Sort descending", "Remove duplicates", "Make new out-file", and "Fractionalize".

**Old Tag:** A text input field containing "tc" and an "Add field to units" button.

**New Tag:** An empty text input field and an "Add new field to docs" button.

**The List:** A table with columns for row number, author name, and a numerical value. The first row is highlighted in blue.

Row	Author	Value
1	Hsu PY	0
1	Pai NY	0
1	Su YM	0
2	Jank DA	0
3	Garud R	0
3	Raghuram S	0
3	Tuertscher P	0
4	Estabrooks CA	0
4	Lavis JN	0
4	Profetto-McGrath J	0
4	Scott SD	0
4	Wallin L	0
4	Wrinther CO	0
5	Waaajer CJF	0
5	van Bochove CA	0

Buttons for "Copy", "Paste", "Add", and "Clear" are located above the list. At the bottom, there are "Row no: 1", "Search", and "View whole file" buttons.

...then from the menu run Edit outfiles/Select columns

Select cocit569.col

The screenshot shows the Bibexcel software interface. The title bar reads "Bibexcel - A toolbox for bibliometricians, by Olle Persson. Version 2011-08-29". The menu bar includes "File", "Edit doc file", "Edit out files", "Add data classify", "Analyze", "Misc", "Mapping", and "Help".

**Select file here:** A file explorer view shows the directory "C:\Bibexcel\My data" with files "cocit569.col", "cocit569.doc", "cocit569.in1", "cocit569.out", and "cocit569.tx2". The file "cocit569.col" is selected. Below the explorer, a text field contains "cocit569.col" and a "View file" button is present.

**Select field to be analysed, view file to get info about which fields are available:** A dropdown menu shows "Any ; separated field" and a "Prep" button.

**Select documents:** A "Start" button.

**Select rows:** A "Start" button.

**The Box:** A text area showing the path "Look at: c:\bibexcel\my data\cocit569.col".

**Type new file name here:** A text area showing "c:\bibexcel\my data\cocit569.tx2".

**Frequency distribution:** A section with a "Select type of unit" dropdown, a "Start" button, and checkboxes for "Sort descending", "Remove duplicates", "Make new out-file", and "Fractionalize". Input fields for "Min number", "Max number", and "Any number" are also present.

**The List:** A list of authors and their counts, with buttons for "Copy", "Paste", "Add", and "Clear".

Author	Count
Hsu PY	0
Pai NY	0
Su YM	0
Jank DA	0
Garud R	0
Raghuram S	0
Tuertscher P	0
Estabrooks CA	0
Lavis JN	0
Profetto-McGrath J	0
Scott SD	0
Wallin L	0
Winther C	0
Waaiker CJF	0
van Bochove CA	0

At the bottom, there is a "Row no: 1" field, a "Search" button, and a "View whole file" button.

...then from the menu run Analyze/h-index  
(answer Yes and OK to questions)

Cocit569.hdx has the h-index data that also can be opened or copied to Excel!

Bibexcel - A toolbox for bibliometricians, by Olle Persson, Version 2011-08-29

File Edit doc file Edit out-files Add data classify Analyze Misc Mapping Help

**Select file here**

C:\  
Bibexcel  
My data

cocit569.col  
cocit569.doc  
cocit569.hdx  
cocit569.in1  
cocit569.out  
cocit569.tx2

c:\  
cocit569.hdx

View file

**Select field to be analysed, view file to get info about which fields are available.**

Any ; separated field

Prep

**Select documents** Start

**Select rows** Start

**Type new file name here**

c:\bibexcel\my data\cocit569.tx2

**Frequency distribution**

Select type of unit

Start

Min number

Sort descending

Remove duplicates

Make new out-file

Fractionalize

Max number

Any number

**Old Tag** tc Add field to units

**New Tag** Add new field to docs

**The Box**

Look at: c:\bibexcel\my data\cocit569.hdx

**The List** Copy Paste Add Clear

13	h-index	SMALL H Citation sum within h-core	1199	All citations	1226	All articles	2
12	h-index	McCain KWV Citation sum within h-core	612	All citations	633	All articles	1
11	h-index	White HD Citation sum within h-core	864	All citations	898	All articles	1
10	h-index	Chen CM Citation sum within h-core	499	All citations	507	All articles	1
7	h-index	Leydesdorff L Citation sum within h-core	188	All citations	209	All articles	1
6	h-index	Rousseau R Citation sum within h-core	213	All citations	224	All articles	1
6	h-index	Eom SB Citation sum within h-core	101	All citations	110	All articles	1
6	h-index	VANRAAN AFJ Citation sum within h-core	279	All citations	282	All articles	1
5	h-index	Ding Y Citation sum within h-core	76	All citations	80	All articles	7
5	h-index	Bassecoulard E Citation sum within h-core	95	All citations	98	All articles	1
5	h-index	Herrero-Solana V Citation sum within h-core	65	All citations	67	All articles	1
5	h-index	Zitt M Citation sum within h-core	95	All citations	102	All articles	7
5	h-index	Glanzel WW Citation sum within h-core	74	All citations	76	All articles	1
4	h-index	Jarneving B Citation sum within h-core	121	All citations	127	All articles	1
4	h-index	Schneider JW Citation sum within h-core	35	All citations	38	All articles	1

Row no: 1

Search

View whole file

I suggest that you first edit the out-file to correct spelling variants of names! For example VanRaen has several variants!

You can of course study h-index of source journals or countries, by producing new out-files before adding times cited data



# Calculate author h-index in cited references using Scopus records

Data:

Records from the journal Scientometrics were downloaded from the Scopus database using ris-format and complete records. With Bibexcel select the scopus ris-file and then run Edit doc-file/Replace line feeds with carriage return. Then select the tx2-file and run Misc/Convert to Dialog format/Convert from Scopus RIS-format.

# Make an outfile based on the CD-field

The screenshot shows the Bibexcel software interface with the following components:

- Select file here:** A file browser showing the directory structure: C:\ > Bibdata 2011 > Scopus Scientometrics. The file 1976-2011.doc is selected. A list of files is shown: 1976-2011.coc, 1976-2011.col, 1976-2011.doc (selected), 1976-2011.dpy, 1976-2011.hdx, 1976-2011.in1, 1976-2011.in2, 1976-2011.lag. A "View file" button is at the bottom right.
- Select field to be analysed, view file to get info about which fields are available:** A dropdown menu is set to "Any ; separated field" and a "Prep" button is next to it.
- Select documents:** A "Start" button.
- Select rows:** A "Start" button.
- Type new file name here:** An empty text input field.
- Frequency distribution:** A section with a "Select type of unit" dropdown set to "Whole string" and a "Start" button. Below are checkboxes for "Sort descending", "Remove duplicates", "Make new out-file", and "Fractionalize". Input fields for "Min number", "Max number", and "Any number" are present.
- Old Tag:** A text input field containing "cd" and an "Add field to units" button.
- New Tag:** An empty text input field and an "Add new field to docs" button.
- The Box:** A preview window showing the file path: "Look at: c:\bibdata 2011\scopus scientometrics\1976-2011.hdx".
- The List:** A list of fields with buttons for "Copy", "Paste", "Add", and "Clear". The list includes: JA- Scientometrics|, VL- 45|, IS- 1|, SP- 81|, EP- 94|, PY- 1999|, SN- 01389130 (ISSN)|, AU- Ojasoo, T.; DorÅ@, J.C.|, AD- Alexandra Rd, Kew, United Kingdom; CNRS URA 401, Mus. National d'Histoire Naturelle, 63 rue de Buffon, 75231 Pa|, AB- Multivariate statistical analysis of the citation profiles of urology and related journals (i.e. the relative extent to which|, TC- 8|, N1- Export Date: 17 May 2011; Source: Scopus|, LA- English|, CD- Garfield, E., Citation indexing for studying science (1970) Nature, 227, pp. 669-671; Garfield, E., (1979) Citation Inde|, UR- http://www.scopus.com/inward/record.url?eid=2-s2.0-0003001852&partnerID=40&md5=1f089b440363c5cf2eceb|.
- Row no: 1** and **Search** / **View whole file** buttons are at the bottom.

Three black arrows point from the text "Make an outfile based on the CD-field" to the "cd" field in the "Old Tag" section, the "Prep" button, and the "The List" section.

# Caclulate citation frequencies

The screenshot shows the Bibexcel software interface. The title bar reads "Bibexcel - A toolbox for bibliometricians, by Olle Persson. Version 2011-09-28". The menu bar includes "File", "Edit doc file", "Edit out-files", "Add data classify", "Analyze", "Misc", "Mapping", and "Help".

**Select file here:** A file browser shows the directory "C:\Bibdata 2011\Scopus Scientometrics" selected. A list of files is shown, with "1976-2011.out" selected. A "View file" button is at the bottom right of this section.

**Frequency distribution:** A section for selecting the type of unit. The "Whole string" option is selected in the dropdown. The "Sort descending" checkbox is checked. There are input fields for "Min number", "Max number", and "Any number". A "Start" button is to the right of the dropdown. Below this are "Old Tag" (containing "cd") and "New Tag" (empty) with "Add field to units" and "Add new field to docs" buttons respectively.

**Select field to be analysed, view file to get info about which fields are available:** A dropdown menu shows "Any ; separated field" and a "Prep" button.

**Select documents:** A "Start" button.

**Select rows:** A "Start" button.

**Type new file name here:** An empty text input field.

**The Box:** A text area containing "Doc: 2822 prepared, n of units:50274 Look at:c:\bibdata 2011\scopus scientometrics\1976-2011.out".

**The List:** A list of bibliographic entries with a "Copy", "Paste", "Add", and "Clear" button above. The first entry is "Benz@cri, J.P., (1973) L'Analyse des Donn@es. Tome I: La Taxinomie. Tome II: L'Analyse des Correspondan...".

At the bottom, there is a "Row no: 1" label, a "Search" button, and a "View whole file" button.

Three black arrows point from the left side of the image to the "Sort descending" checkbox, the "Start" button in the "Frequency distribution" section, and the "Add field to units" button.

# The cit-file has the citation distribution

The screenshot shows the Bibexcel software interface. The title bar reads "Bibexcel - A toolbox for bibliometricians, by Olle Persson. Version 2011-09-28". The menu bar includes "File", "Edit doc file", "Edit out-files", "Add data classify", "Analyze", "Misc", "Mapping", and "Help".

**Select file here:** A file explorer shows the directory "C:\Bibdata 2011\Scopus Scientometrics" with a list of files including "1976-2011.cit". A "View file" button is located below the list.

**Select field to be analysed, view file to get info about which fields are available:** A dropdown menu is set to "Any ; separated field" with a "Prep" button.

**Select documents:** A "Start" button.

**Select rows:** A "Start" button.

**The Box:** Displays "View file: c:\bibdata 2011\scopus scientometrics\1976-2011.cit Sec:4 Units:42969 Unique:42969".

**Type new file name here:** An empty text input field.

**Frequency distribution:** A section with "Select type of unit" set to "Whole string" and a "Start" button. It includes checkboxes for "Sort descending" (checked), "Remove duplicates", "Make new out-file", and "Fractionalize". Input fields for "Min number", "Max number", and "Any number" are present.

**Old Tag:** A text field containing "cd" and an "Add field to units" button.

**New Tag:** An empty text field and an "Add new field to docs" button.

**The List:** A list of references with row numbers 42 through 16 (reversed). The first entry is "Katz, J.S., Martin, B.R., What is research collaboration? (1997) Research Policy, 26, pp. 1-18". Buttons for "Copy", "Paste", "Add", and "Clear" are above the list.

**Row no: 1** and **Search** buttons are at the bottom.

Next run Edit out-files/Scopus tools/Extract all authors from Scopus references

The sco-file has now citations for a given paper and its authors!

The screenshot shows the Bibexcel software interface. The title bar reads "Bibexcel - A toolbox for bibliometricians, by Olle Persson. Version 2011-09-28". The menu bar includes "File", "Edit doc file", "Edit out-files", "Add data classify", "Analyse", "Misc", "Mapping", and "Help".

**Select file here:** A file explorer shows the directory "C:\Bibdata 2011\Scopus Scientometrics" with the file "1976-2011.sco" selected. A list of files is shown: 1976-2011.low, 1976-2011.max, 1976-2011.min, 1976-2011.net, 1976-2011.nnu, 1976-2011.out, 1976-2011.oux, and 1976-2011.sco. A "View file" button is at the bottom right of this section.

**Select field to be analysed, view file to get info about which fields are available:** A dropdown menu shows "Any ; separated field" and a "Prep" button.

**Select documents:** A "Start" button.

**Select rows:** A "Start" button.

**The Box:** A text area containing "Look at :c:\bibdata 2011\scopus scientometrics\1976-2011.sco".

**Type new file name here:** An empty text input field.

**Frequency distribution:** A section with "Select type of unit" set to "Whole string" and a "Start" button. It includes checkboxes for "Sort descending" (checked), "Remove duplicates", "Make new out-file", and "Fractionalize". There are input fields for "Min number", "Max number", and "Any number".

**Old Tag:** A text input field containing "cd" and an "Add field to units" button.

**New Tag:** An empty text input field and an "Add new field to docs" button.

**The List:** A list of citations with a "Copy", "Paste", "Add", and "Clear" button above it. The list is as follows:

42	Katz JS; Martin BR
37	Schubert A; Braun T
26	May RM
25	Lotka AJ
24	Bradford SC
23	Garfield E
22	Merton RK
20	King DA
19	van Raan AFJ
19	Frame JD; Carpenter MP
18	Kessler MM
17	Hirsch JE
17	Ball P
16	Moed HF; De Bruin RE; Van Leeuwen ThN
16	Schubert A; Braun T

At the bottom, there is a "Row no: 1" field, a "Search" button, and a "View whole file" button.

Next run Edit out-files/Decompress out-file

The nnu-file has one row for each author of a given paper and the citation frequency to the left

The screenshot shows the Bibexcel software interface. The title bar reads "Bibexcel - A toolbox for bibliometricians, by Olle Persson. Version 2011-09-28". The menu bar includes "File", "Edit doc file", "Edit out-files", "Add data classify", "Analyze", "Misc", "Mapping", and "Help".

**Select file here:** A file explorer shows the directory "C:\Bibdata 2011\Scopus Scientometrics" with files: 1976-2011.low, 1976-2011.max, 1976-2011.min, 1976-2011.net, 1976-2011.nnu (selected), 1976-2011.out, 1976-2011.oux, and 1976-2011.sco. Below the list, "1976-2011.nnu" is entered in a text field, and a "View file" button is present.

**Select field to be analysed, view file to get info about which fields are available:** A dropdown menu shows "Any ; separated field" and a "Prep" button.

**Select documents:** A "Start" button.

**Select rows:** A "Start" button.

**The Box:** A text area containing "Look at: c:\bibdata 2011\scopus scientometrics\1976-2011.nnu".

**Type new file name here:** An empty text input field.

**Frequency distribution:** A section with "Select type of unit" (Whole string), "Start" button, "Min number" input, "Sort descending" (checked), "Remove duplicates" (unchecked), "Make new out-file" (unchecked), "Fractionalize" (unchecked), "Max number" input, and "Any number" input.

**Old Tag:** A text field with "cd" and an "Add field to units" button.

**New Tag:** An empty text field and an "Add new field to docs" button.

**The List:** A list of authors with citation frequencies: 42 Katz JS, 42 Martin BR, 37 Schubert A, 37 Braun T, 26 May RM, 25 Lotka AJ, 24 Bradford SC, 23 Garfield E, 22 Merton RK, 20 King DA, 19 van Raan AFJ, 19 Frame JD, 19 Carpenter MP, 18 Kessler MM, 17 Hirsch JE. Buttons for "Copy", "Paste", "Add", and "Clear" are above the list.

At the bottom, there is a "Row no: 1" indicator, a "Search" button, and a "View whole file" button.

Next run Edit out-files/Swap two columns

The swp-file has now the right format for h-index calculation.

The screenshot shows the Bibexcel software interface. The title bar reads "Bibexcel - A toolbox for bibliometricians by Olle Persson. Version 2011-09-28". The menu bar includes "File", "Edit doc file", "Edit out-files", "Add data classify", "Analyse", "Misc", "Mapping", and "Help".

**Select file here:** A file explorer shows the directory "C:\Bibdata 2011\Scopus Scientometrics" with files: 1976-2011.max, 1976-2011.min, 1976-2011.net, 1976-2011.nnu, 1976-2011.out, 1976-2011.oux, 1976-2011.sco, and 1976-2011.swp. The "1976-2011.swp" file is selected. A "View file" button is at the bottom right of this section.

**Select field to be analysed, view file to get info about which fields are available:** A dropdown menu shows "Any ; separated field" and a "Prep" button.

**Select documents:** A "Start" button.

**Select rows:** A "Start" button.

**The Box:** A text box shows the path "c:\bibdata 2011\scopus scientometrics\1976-2011.swp".

**Type new file name here:** An empty text input field.

**Frequency distribution:** A section with "Select type of unit" (Whole string), "Start" button, "Min number" input, "Sort descending" checked, "Remove duplicates" unchecked, "Make new out-file" unchecked, "Fractionalize" unchecked, "Max number" input, and "Any number" input.

**Old Tag:** Input "cd" and "Add field to units" button.

**New Tag:** Empty input and "Add new field to docs" button.

**The List:** A list of authors and their counts with buttons "Copy", "Paste", "Add", and "Clear".

Author	Count
Katz JS	42
Martin BR	42
Schubert A	37
Braun T	37
May RM	26
Lotka AJ	25
Bradford SC	24
Garfield E	23
Merton RK	22
King DA	20
van Raan AFJ	19
Frame JD	19
Carpenter MP	19
Kessler MM	18
Hirsch JE	17

Row no: 1, Search, View whole file

Next run Analyse/h-index

Voilà! The hdx-file has it!

The screenshot shows the Bibexcel software interface. The title bar reads "Bibexcel - A toolbox for bibliometricians, by Olle Persson. Version 2011-09-28". The menu bar includes "File", "Edit doc file", "Edit out-files", "Add data classify", "Analyze", "Misc", "Mapping", and "Help".

**Select file here:** A file explorer window shows the directory "C:\Bibdata 2011\Scopus Scientometrics" with a list of files including "1976-2011.hdx", "1976-2011.in1", "1976-2011.in2", "1976-2011.lag", "1976-2011.low", "1976-2011.max", "1976-2011.min", and "1976-2011.net". The "1976-2011.hdx" file is selected. A "View file" button is at the bottom right of this panel.

**Select field to be analysed, view file to get info about which fields are available:** A dropdown menu shows "Any ; separated field" and a "Prep" button.

**Select documents:** A "Start" button.

**Select rows:** A "Start" button.

**The Box:** A text area showing the file path "Look at: c:\bibdata 2011\scopus scientometrics\1976-2011.hdx".

**Type new file name here:** An empty text input field.

**Frequency distribution:** A section with a "Select type of unit" dropdown set to "Whole string" and a "Start" button. Below are checkboxes for "Sort descending" (checked), "Remove duplicates", "Make new out-file", and "Fractionalize". Input fields for "Min number", "Max number", and "Any number" are present.

**Old Tag:** A text input field containing "cd" and an "Add field to units" button.

**New Tag:** An empty text input field and an "Add new field to docs" button.

**The List:** A table with columns for row number, index type, author, metric, and various citation counts. Buttons for "Copy", "Paste", "Add", and "Clear" are above the table.

Row	h-index	Author	Metric	Value	Unit	Total	Articles
8	h-index	Schubert A	Citation sum within h-core	112	All citations	1116	All articles
8	h-index	Glänzel W	Citation sum within h-core	87	All citations	1200	All articles
7	h-index	Braun T	Citation sum within h-core	101	All citations	906	All articles
6	h-index	Thelwall M	Citation sum within h-core	51	All citations	336	All articles
6	h-index	Vinkler P	Citation sum within h-core	47	All citations	231	All articles
6	h-index	van Raan AFJ	Citation sum within h-core	73	All citations	740	All articles
6	h-index	Garfield E	Citation sum within h-core	65	All citations	890	All articles
6	h-index	Persson O	Citation sum within h-core	60	All citations	288	All articles
6	h-index	Moed HF	Citation sum within h-core	68	All citations	769	All articles
6	h-index	Leydesdorff L	Citation sum within h-core	62	All citations	752	All articles
6	h-index	Egghe L	Citation sum within h-core	71	All citations	569	All articles
6	h-index	Narin F	Citation sum within h-core	61	All citations	713	All articles
6	h-index	Rousseau R	Citation sum within h-core	59	All citations	665	All articles
5	h-index	Ingwersen P	Citation sum within h-core	37	All citations	162	All articles
5	h-index	MacRoberts MH	Citation sum within h-core	41	All citations	90	All articles

At the bottom, there is a "Row no: 1" indicator, a "Search" button, and a "View whole file" button.



Open the hdx-file in Excel using Unicode (UTF-8) will make it look nicer!

The screenshot shows the Microsoft Excel interface with the following data in the worksheet:

	A	B	C	D	E	F	G	H	I	J
1	8	h-index	Schubert A	Citation sum within h-core	112	All citations	1116	All articles	774	
2	8	h-index	Glänzel W	Citation sum within h-core	87	All citations	1200	All articles	784	
3	7	h-index	Braun T	Citation sum within h-core	101	All citations	906	All articles	639	
4	6	h-index	Thelwall M	Citation sum within h-core	51	All citations	336	All articles	219	
5	6	h-index	Vinkler P	Citation sum within h-core	47	All citations	231	All articles	128	
6	6	h-index	van Raan AFJ	Citation sum within h-core	73	All citations	740	All articles	534	
7	6	h-index	Garfield E	Citation sum within h-core	65	All citations	890	All articles	719	
8	6	h-index	Persson O	Citation sum within h-core	60	All citations	288	All articles	174	
9	6	h-index	Moed HF	Citation sum within h-core	68	All citations	769	All articles	551	
10	6	h-index	Leydesdorff L	Citation sum within h-core	62	All citations	752	All articles	514	
11	6	h-index	Egghe L	Citation sum within h-core	71	All citations	569	All articles	374	
12	6	h-index	Narin F	Citation sum within h-core	61	All citations	713	All articles	490	
13	6	h-index	Rousseau R	Citation sum within h-core	59	All citations	665	All articles	488	
14	5	h-index	Ingwersen P	Citation sum within h-core	37	All citations	162	All articles	102	
15	5	h-index	MacRoberts MH	Citation sum within h-core	41	All citations	90	All articles	46	

A h-index sequence could be used to study the publication and impact career of an author.

The following exercise is based on a WoS citation report for articles on co-citations. From the Citation report you can easily download to a xls-file with a matrix that for each paper shows the citations over citing years.



Select the cxx-file and run Analyze/h-index.  
 Open the hdx-file in Excel to study the h-index  
 sequences in detail

The List				
Copy				
Paste				
Add				
Clear				
h-index	Unit	Citation sum within h-core	All citations	All articles
15	Small H/2014	1718	1777	25
15	Small H/2013	1705	1762	25
14	Small H/2009	1219	1251	20
14	Small H/2012	1591	1650	25
14	Small H/2010	1353	1387	21
14	Small H/2011	1478	1523	22
13	Small H/2007	1016	1048	20
13	Small H/2008	1104	1145	20
12	White H/2014	1090	1096	13
12	White H/2013	1084	1090	13
12	Small H/2006	928	964	19
12	Small H/2004	791	818	19
12	Small H/2005	857	889	19
12	White H/2012	1014	1018	13

# Analyze/h-index from pairs, a preparatory step

A pair file with co-authorship frequencies

The List			Copy	Paste
7	Vargasquesada B	Chinchillarodriguez Z		
6	Zhao D	Strotmann A		
5	Vargasquesada B	Coreraalvarez E		
5	Zitt M	Bassecoulard E		
5	Demoyaanegon F	Chinchillarodriguez Z		
5	Glanzel W	Demoor B		
5	Chinchillarodriguez Z	Coreraalvarez E		
5	Guerrerobote V	Demoyaanegon F		
4	Vaneck N	Waltman L		
4	Yan E	Ding Y		
4	Coreraalvarez E	Munozfernandez F		
4	Demoyaanegon F	Coreraalvarez E		
4	Moyaanegon F	Herrerosolana V		
4	Boyack K	Klavans R		
4	Janssens F	Demoor B		

bibexcel

Select a pairfile of the coc-format(frequency+tab+unit+tab+unit) and I will list unit+tab+frequency from each pair and put it in filename.cyy.  
Then use the cyy-file for the h-index routine.  
If you have co-authorship frequencies, then the h-index routine will produce a list that is similar to the partenship index invented by A. Schubert.  
If we apply the same routines to a co-citation file, we would get a co-citation pairing index.

...and the resulting cyy-file looks like this

The List			Copy	Paste
Vargasquesada B	7			
Chinchillarodriguez Z	7			
Zhao D	6			
Strotmann A	6			
Vargasquesada B	5			
Coreraalvarez E	5			
Zitt M	5			
Bassecoulard E	5			
Demoyaanegon F	5			
Chinchillarodriguez Z	5			
Glanzel W	5			
Demoor B	5			
Chinchillarodriguez Z		5		
Coreraalvarez E	5			
Guerrerobote V	5			

Select the cyy-file and run **Analyze/h-index** and here you have the partnership index in the hdx-file, and other data as well.

The List						Copy	Paste	Add	Clear
h-index	Unit	Citation sum within h-core	All citations	All article:					
4	Chinchillarodriguez Z	21	31	11					
4	Demoyaanegon F	18	42	19					
4	Vargasquesada B	20	48	20					
4	Coreraalvarez E	18	25	9					
3	Herrerosolana V	12	32	16					
3	Glanzel W	12	32	20					
3	Ding Y	10	28	19					
3	Munozfernandez F	12	21	8					
3	Demoor B	12	18	9					
2	Kotzab H	4	4	2					
2	Hislop G	4	8	5					
2	Juradoalameda E	4	7	4					
2	Chabowski B	4	8	6					