

**The University of Akron**

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**From the Selected Works of Ian McCullough**

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March 31, 2015

# Worksheet for Collection Microclimates poster

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Available at: [https://works.bepress.com/ian\\_mccullough/7/](https://works.bepress.com/ian_mccullough/7/)

## Worksheet for Collections Microclimates (ACRL 2015, March 28, Portland, OR, Session 3, Poster 8)

Ian McCullough, March 31, 2015

This is a nuts and bolts about how to search large numbers of terms in web of science, pull down the cited reference data, trim the author and dates to get the journal titles listed first, and then organized into a single column for easy counting. This is still terse, so please contact me at [ibm@uakron.edu](mailto:ibm@uakron.edu) if you have questions. The poster, summarizing results of research conducted using this method, is located here: [http://works.bepress.com/ian\\_mccullough/5](http://works.bepress.com/ian_mccullough/5)

In general, I use Jeremy Cusker's method as outlined in his article "Using ISI Web of Science to Compare Top-Ranked Journals to the Citation Habits of a 'Real World' Academic Department" (<http://www.istl.org/12-summer/refereed2.html>)

In terms of formulating the query, I take advantage of Web of Science's ability to accept pasted data from Excel. I list terms I'm interested in in one column, then the Boolean term OR directly to the right, and copy and paste both columns into Web of Science. Typically I would do authors last name [space] first name initial\* (mccullough i\*). Shown in Figure 1 is my "all faculty" list.

	A	B
2		
3	Brittain w*	OR
4	Carri g*	OR
5	Cheng szd	OR
6	Dhinojwala a*	OR
7	Foster M*	OR
8	Gujrati p*	OR
9	Hamed g*	OR
10	Harris f*	OR
11	Mattice w*	OR
12	Newkome G*	OR
13	Pugh C*	OR
14	Puskas J*	OR
15	Quirk R*	OR
16	Reneker d*	OR
17	Sokolov A*	OR
18	Wang SQ	OR
19	Becker M*	OR
20	Chuang s*	OR
21	Collins S*	OR
22	Douglas f*	OR
23	Jia L*	OR
24	Joy A*	OR
25	Kennedy j*	OR
26	Landis W*	OR
27	Liu T*	OR
28	Miyoshi T*	OR
29	Sahai n*	OR
30	Tsige M*	OR
31	Von meerwall e*	OR
32		

Figure 1 - Data selected for Web of Science Advanced Search

The next step is to copy and paste the highlighted area into the Advanced Search of Web of Science. First I put in the search term ("AU" for author in this case) with "=" then paste (Figure 2). Afterwards, I enter search qualifiers to make sure these are all Akron-based results (Figure 3 - next page).

**Advanced Search**

Use field tags, Boolean operators, parent the page. [\(Learn more about Advanced Se](#)

*Example: TS=(nanotub\* AND carbon) #1 NOT #2 more example:*

AU=|

**Search**

Figure 2 - Advanced Search ready for Excel paste

You do the same thing with author names (Figure 4 – next page) and qualifiers to get a big list of authors into Web of Science quickly. I've entered well over a thousand search terms at a time with this trick.

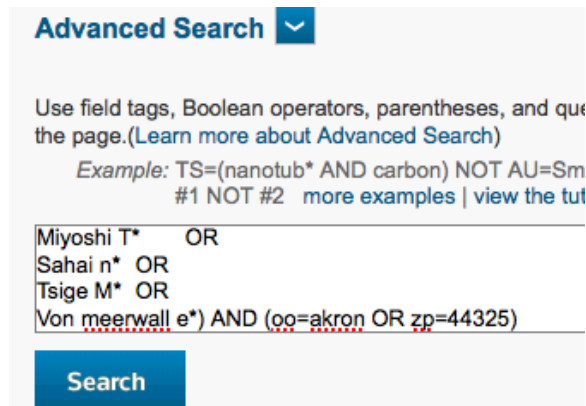


Figure 3- After the Excel paste with qualifiers

Now we have a big list of terms with results. At this point you would use the aforementioned method from Cusker from step 4 through 11. I recommend using tab and semicolon in step 8 as delimiters – you get more columns to delete on the left, but the rest of the data is relatively clean. The most important part of Cusker's method is the Excel trim function in step 11 to get the journal titles first. Now that there is a worksheet with the trimmed citations (beginning with journal title), I did the

following:

1. Copied the entire worksheet and used “paste special” and only pasted the values into a new worksheet.
2. Used a Macro to convert the excel range into one column. Some of my data sets had 2000 citations, which would have been very time-consuming manually. There are many options available in various forums, but the macro I chose to use was posted online here: <http://www.extendoffice.com/documents/excel/1172-excel-transpose-multiple-columns-into-one-column.html>
3. Now that the entire range is in one column, go back to Cusker's method for steps 13 and 14 – namely, alphabetize and count. Using the counta function in excel will allow you to rapidly count large numbers of citations to a specific journal.
4. I recommend putting count numbers next to the journal title, so the numbers can be easily sorted to get a ranked list (Figure 5 – next page).

Search History:			
Set	Results	Save History / Create Alert	Edit Sets
# 2	3,220		Edit
AU=(Brittain w* OR Carri g* OR Cheng szd OR Dhinojwala a* OR Foster M* OR Gujrati p* OR Hamed g* OR Harris f* OR Mattice w* OR Newkome G* OR Pugh C* OR Puskas J* OR Quirk R* OR Reneker d* OR Sokolov A* OR Wang SQ OR Becker M* OR Chuang s* OR Collins S* OR Douglas f* OR Jia L* OR Joy A* OR Kennedy j* OR Landis W* OR Liu T* OR Miyoshi T* OR Sahai n* OR Tsige M* OR Von meerwall e*) AND (OO=akron OR zp=44325) <small>Indexes=SCI-EXPANDED, CPCI-S Timespan=1965-2015</small>			

Figure 4 - Results from the Excel Pasted Search

	AM J BOT, V76, P730, C	122	J EXP BIOL, V207, P285, DO
	AM J BOT, V78, P1404,	110	P NATL ACAD SCI USA, V10
	AM J BOT, V78, P1746,	109	NATURE, V372, P425, DOI 1
	AM J BOT, V80, P1407,	87	EVOLUTION, V53, P313, DC
	AM J BOT, V81, P199, C	86	LANGMUIR, V17, P5605, DC
	AM J BOT, V83, P1343,	67	P ROY SOC B-BIOL SCI, V271
	AM J BOT, V85, P1022,	66	J R SOC INTERFACE, V5, P33
	AM J BOT, V89, P1250,	65	BIOMACROMOLECULES, V1
	AM J BOT, V91, P2041,	44	HYDROBIOLOGIA, V298, P7
	AM J BOT, V92, P1641,	41	AM NAT, V172, P63, DOI 10
23	AM J BOT, V92, P885, C	39	ANN BOT-LONDON, V109, I
	AM J BOT, V92, P885, C	34	J EVOLUTION BIOL, V23, P1
	AM J BOT, V92, P885, C	30	ADV MATER, V22, P2871, C
	AM J BOT, V92, P885, C	29	BIOMATERIALS, V28, P4192
	AM J BOT, V92, P885, C	29	ECOLOGY, V85, P2341, DOI
	AM J BOT, V93, P1306,	29	MACROMOLECULES, V38, F
	AM J BOT, V93, P1306,	28	BIOL J LINN SOC, V30, P135
	AM J BOT, V93, P1306,	27	J AM CHEM SOC, V132, P60
	AM J BOT, V93, P1306,	26	HEREDITY, V92, P242, DOI 1
	AM J BOT, V96, P809, C	24	APPL ENVIRON MICROB, V7
	AM J BOT, V96, P809, C	23	AM J BOT, V92, P885, DOI 1
	AM J BOT, V96, P809, C	23	ANIM BEHAV, V74, P921, D
	AM J BOT, V98, P1191,	23	J ARACHNOL, V29, P82, DO
1	AM J CLIN NUTR, V74, F	22	LIMNOL OCEANOGR, V57, I
1	AM J CLIN PATHOL, V45	22	OECOLOGIA, V85, P41, DOI
1	AM J HUM GENET, V86	22	PHILOS T R SOC LON B, V21
	AM J OBSTET GYNECOL	20	BEHAV ECOL SOCIOBIOL, V
	AM J OBSTET GYNECOL	20	MOL ECOL, V17, P2321, DC
	AM J OBSTET GYNECOL	20	NUCLEIC ACIDS RES, V34, p
4	AM J OBSTET GYNECOL	19	J CRUSTACEAN BIOL, V27, F
1	AM J OPHTHALMOL, V1	19	MAR ECOL PROG SER, V69,
	AM J PATHOL, V108, P1	18	CAN J ZOOL, V86, P525, DC
2	AM J PATHOL, V164, P1	18	GEN COMP ENDOCR, V166,
1	AM J PHYSIOL-CELL PH,	18	INVERTEBR BIOL. V127. P33

Figure 2 - count list (left), sorted list (right)