The State of the Art in Citation-based Searching: Google Scholar & Beyond

CONTENT ISSUES

Prague
May 21, 2007

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The Basics

Why citation based searching ?

Thesaurus based searching is very limited

- It was nice in the 1960s
- Many outdated and simply poor thesauri
- Few are implemented online
- Even fewer are well implemented
- Few end-users would bother to browse the thesaurus

Weird Broader term (Indonesia) for Balkan Region

Basketball as contact sport taekwondo, karate anyone?

Thesaurus for contact sport
Database: SPORTDiscus

Select	Subject Heading	Hits	Explode	Scope N
	[Back up in List]			
☐	consumer	323	☐	
☐	consumer education	43	☐	
☐	consumer product safety commission	6	☐	
☐	contact lenses	137	☐	
☑	**contact sport**	273	☐	
	[Narrower Terms]			
☐	basket-ball	0	☐	
☐	basketball	18346	☐	
☐	boxe	167	☐	
☐	boxing	3533	☐	
☐	football	18417	☐	
☐	hockey	8777	☐	
☐	judo	2438	☐	
☐	wrestling	3908	☐	
	contagious disease			
☐	container	14	☐	
☐	conte, f.	1	☐	
☐	conteneur	0	☐	
☐	content analysis	513	☐	

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Students have no attitude?

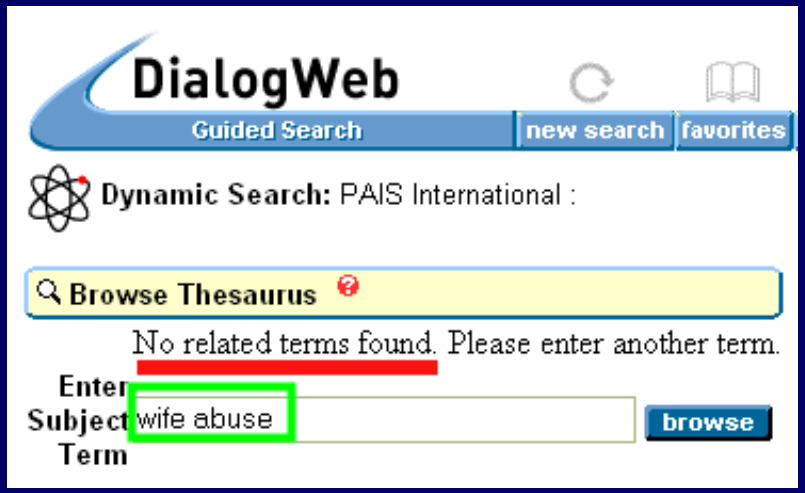
corporal punishment (03)
pupil (04)
foreign pupil (04)
pupil attitude (21) *
pupil behaviour (24)
pupil equipment (08)
pupil integration (27)
pupil mobility
USE student mobility (29)

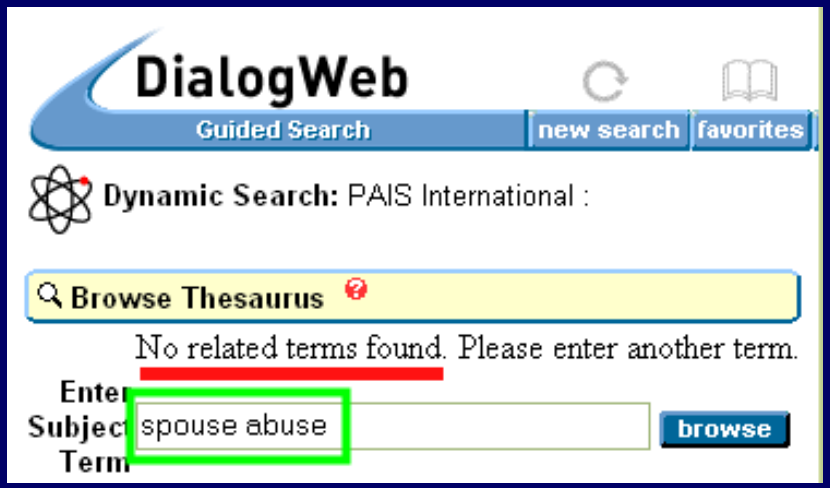
home student (04)
married student (04)
non-enrolled student (04)
postgraduate student (04)
ndergraduate student (04)
working student (04)
student behaviour (24) √
student demonstration (24)
student exchange (27)

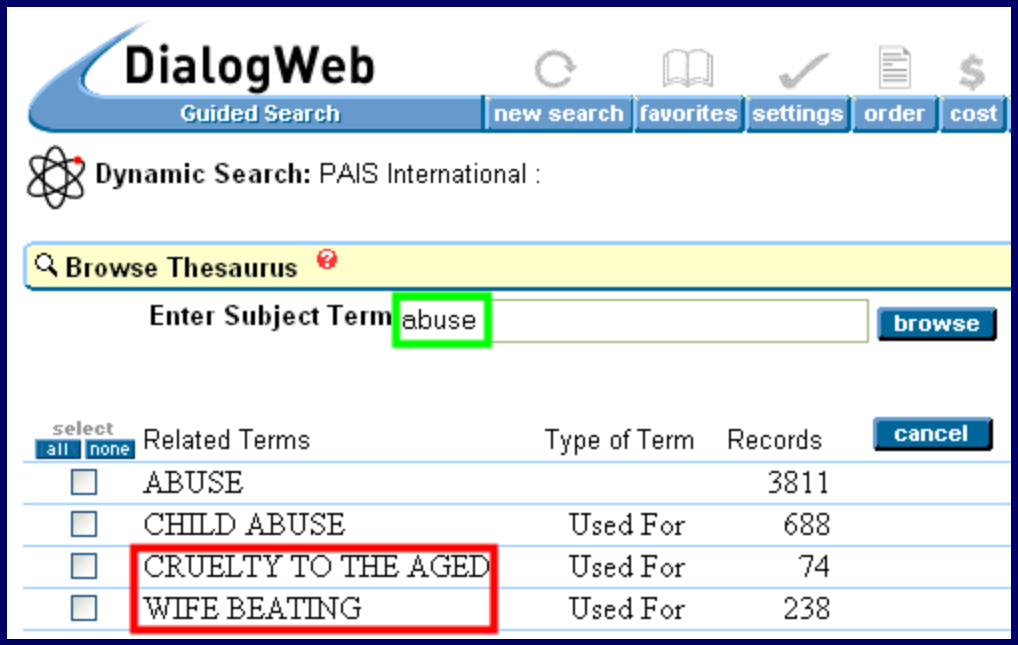
Good controlled vocabulary

MeSH Heading	Battered Women
Tree Number	M01.975.155
Annotation	prefer SPOUSE ABUSE for battering of wives; check tags HUMAN & FEMALE
Scope Note	Women who are physically and mentally abused over an extended period, usually by a husband or other dominant male figure. Characteristics of the battered woman syndrome are helplessness, constant fear, and a perceived inability to escape. (From American Heritage Dictionary of the English Language, 3d ed)
Entry Term	Abused Women
Entry Term	Women, Abused
Entry Term	Women, Battered
Entry Term	Abused Woman
Entry Term	Battered Woman
Entry Term	Woman, Abused
Entry Term	Woman, Battered
See Also	Spouse Abuse
Allowable Qualifiers	CL ED HI LJ PX SN
History Note	95
Unique ID	D018585

PAIS thesaurus abuse on Dialog







Much out-dated PAIS thesaurus on Dialog, current on CSA

Dialog Response

Ref	Items	Type	RT	Index-term
R1	0		1	*BATTERED WIVES
R2	238	U	9	WIFE BEATING

© 2003 The Dialog Corporation

Ref	Items	Type	RT	Index-term
R1	238		9	*WIFE BEATING
R2	3272	F	3	ABUSE
R3	49	R	4	ASSAULT AND BATTERY
R4	0	F	1	BATTERED WIVES
R5	0	F	1	CONJUGAL VIOLENCE
R6	457	R	5	FAMILY VIOLENCE
R7	112	R	6	HUSBAND AND WIFE
R8	225	R	9	WIVES
R9	13065	R	24	WOMEN
R10	0	R	5	WOMEN - CRIMES AGAINST

CSA

to Search | Click on Term to Display Thesaurus

Wife beating

Use Instead

Spousal abuse

Previous Term: Wiesel, Elie

Next Term: Wijetunga, Dingiri Banda

Ovid's most informative thesaurus display

Select	Subject Heading	Hits	Explode	Focus	Scope Note
+	**Anatomy (Non MeSH)**				
+	**Organisms (Non MeSH)**				
+	**Diseases (Non MeSH)**				
+	**Chemicals and Drugs (Non MeSH)**				
+	**Analytical, Diagnostic and Therapeutic Techniques and Equipment (Non MeSH)**				
+	**Psychiatry and Psychology (Non MeSH)**				
+	**Biological Sciences (Non MeSH)**				
+	**Physical Science (Non MeSH)**				
−	**Anthropology, Education, Sociology and Social Phenomena (Non MeSH)**				
− ☐	Social Sciences	2835	☐	☐	
+ ☐	Anthropology	1331	☐	☐	
☐	Cost of Illness	5332	☐	☐	
− ☐	Criminology	580	☐	☐	
− ☐	Crime	7538	☐	☐	
☐	Abortion, Criminal	1453	☐	☐	
☐	Fraud	4763	☐	☐	
+ ☐	Homicide	8433	☐	☐	
+ ☐	Sex Offenses	2891	☐	☐	
☐	Theft	886	☐	☐	
− ☐	Violence	13271	☐	☐	
− ☐	Domestic Violence	1886	☐	☐	
+ ☐	Child Abuse	10867	☐	☐	
☐	Elder Abuse	889	☐	☐	
☑	Spouse Abuse	2278	☐	☐	

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Not even that could help in multi database searching

#	Search History	Results	Display
1	spouse abuse.sh. EMBASE <1980 to 2003 Week 26> (0) ERIC <1966 to May 2003> (0) MEDLINE <1966 to June Week 3 2003> (2277) PAIS International <1972 to May 2003> (0) PsycINFO <1974 to June Week 1 2003> (0) No Details	2277	Display
2	wife abuse.sh. EMBASE <1980 to 2003 Week 26> (5) ERIC <1966 to May 2003> (0) MEDLINE <1966 to June Week 3 2003> (0) PAIS International <1972 to May 2003> (0) PsycINFO <1974 to June Week 1 2003> (0) No Details	5	Display
3	spousal abuse.sh. EMBASE <1980 to 2003 Week 26> (0) ERIC <1966 to May 2003> (0) MEDLINE <1966 to June Week 3 2003> (0) PAIS International <1972 to May 2003> (47) PsycINFO <1974 to June Week 1 2003> (0) No Details	47	Display
4	partner abuse.sh. EMBASE <1980 to 2003 Week 26> (0) ERIC <1966 to May 2003> (0) MEDLINE <1966 to June Week 3 2003> (0) PAIS International <1972 to May 2003> (0) PsycINFO <1974 to June Week 1 2003> (1950) No Details	1950	Display
5	battered women.sh. EMBASE <1980 to 2003 Week 26> (0) ERIC <1966 to May 2003> (484) MEDLINE <1966 to June Week 3 2003> (578) PAIS International <1972 to May 2003> (0) PsycINFO <1974 to June Week 1 2003> (0) No Details	1062	Display

Contract

Personal Account Saved Searches Save Search History Delete Searches Remove Duplicates

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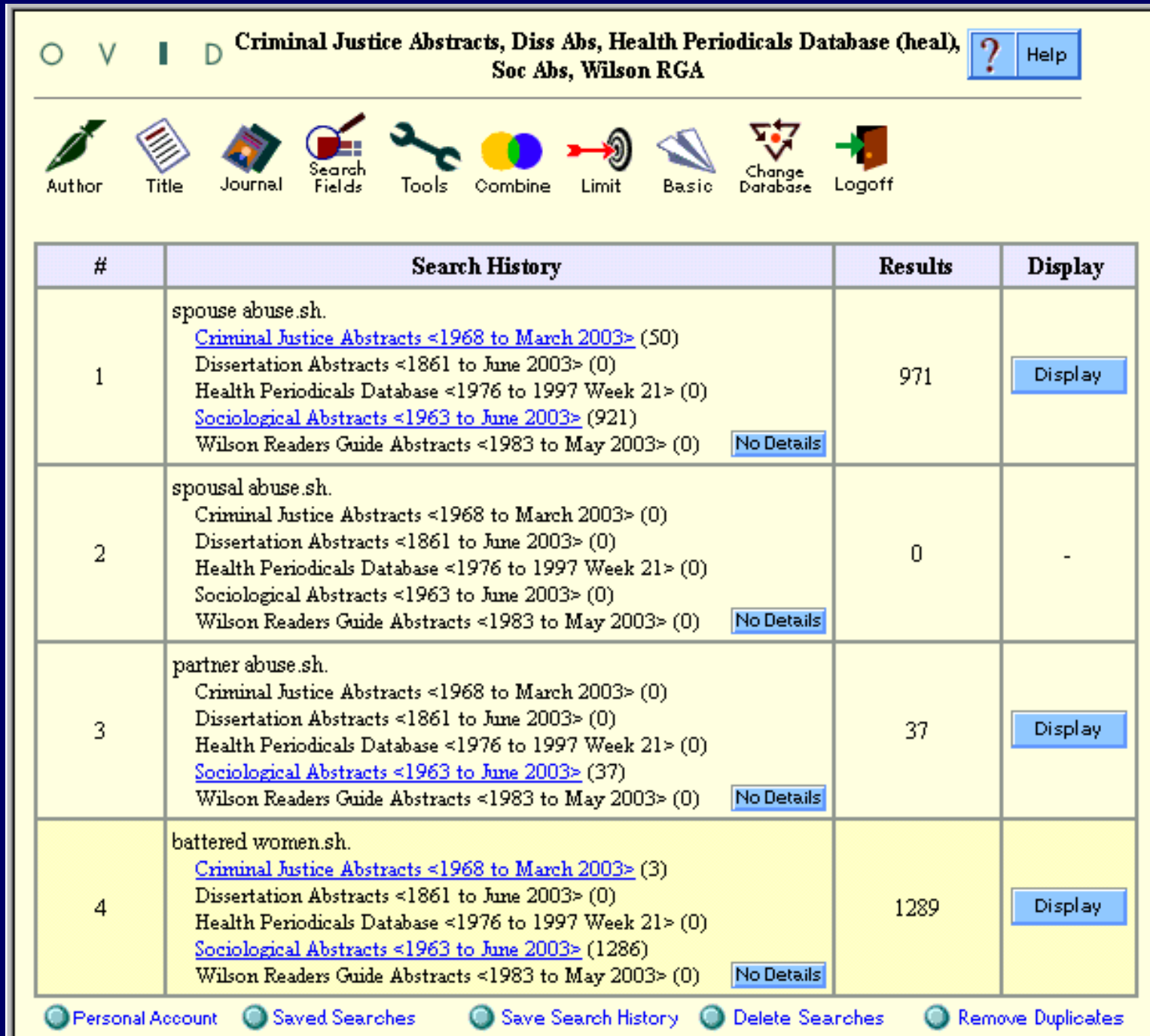
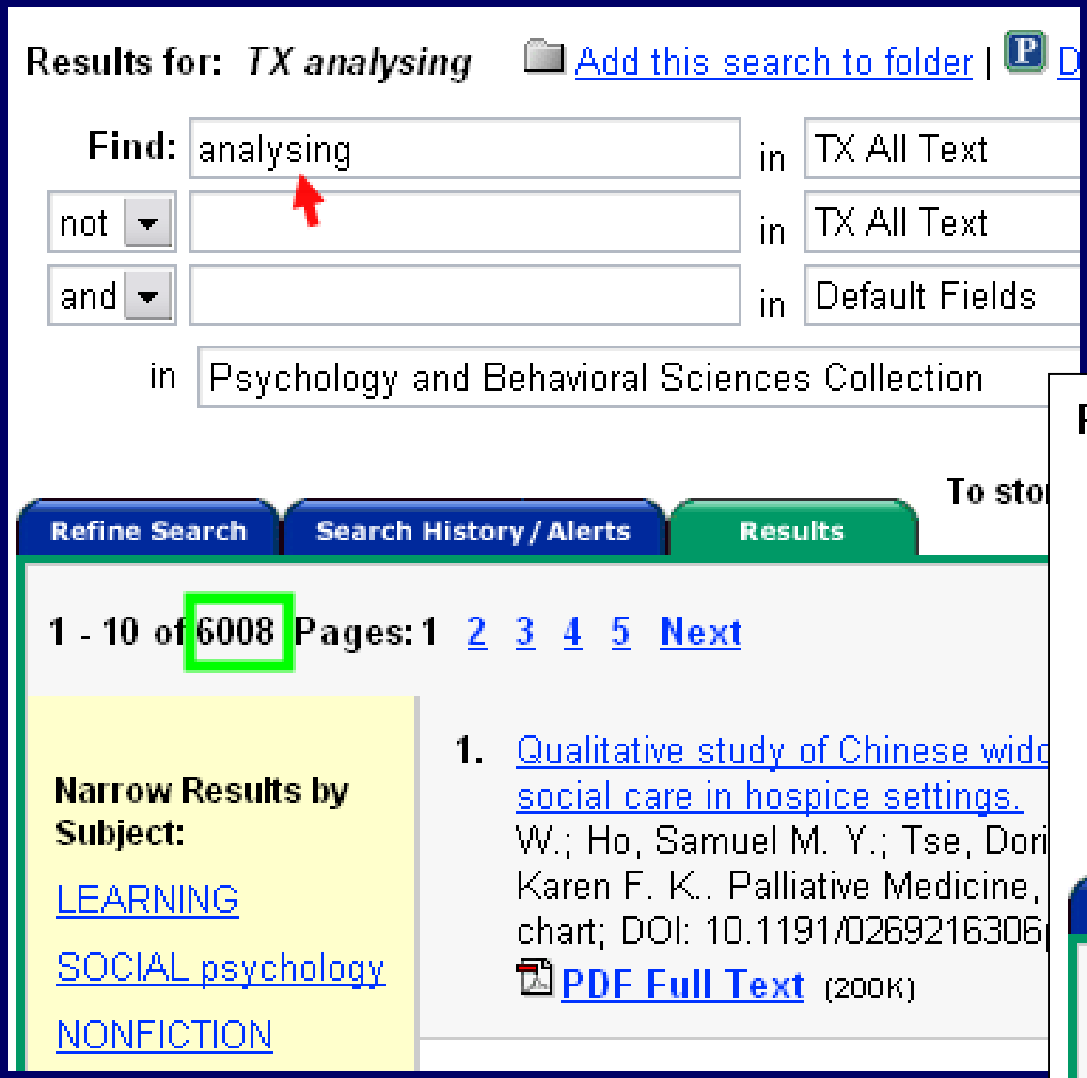
Preferred descriptors are sooo different in different databases

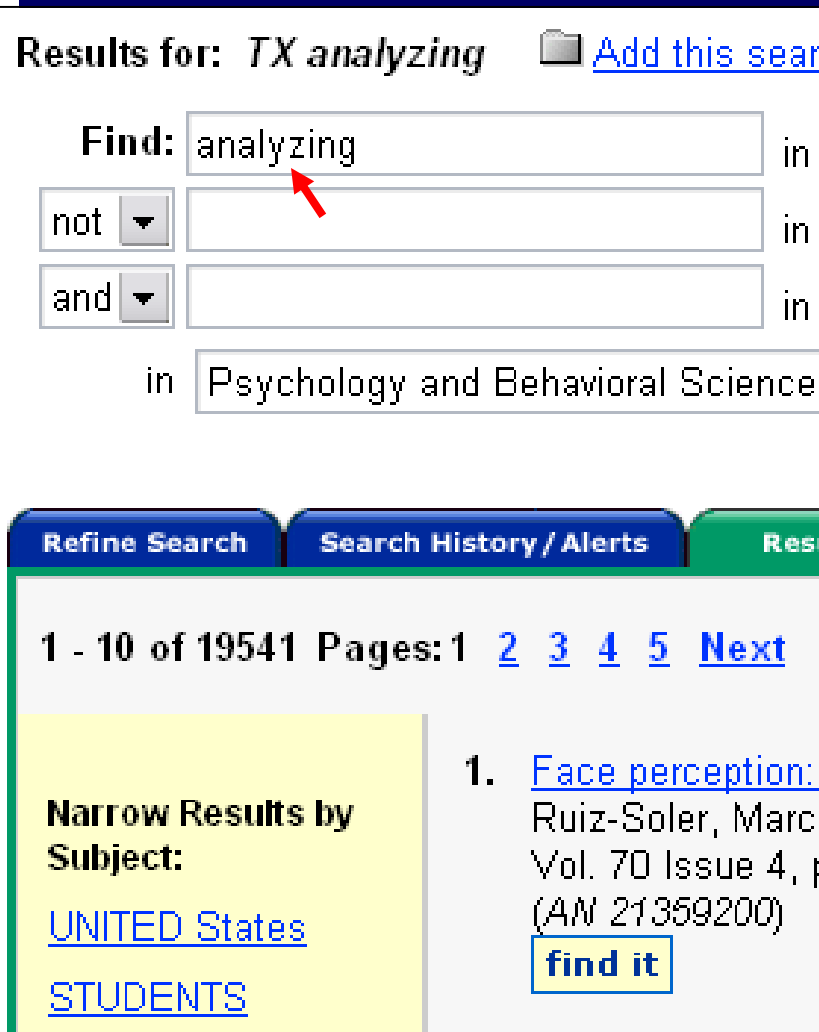


Free-text (uncontrolled-text) searching

- It's free and pure heaven, or is it?
- Searching of title and abstract is good
- Searching of full-text is even mo' better
- Think what you are missing using free text searching
- Search behaviour of pupils vs Search behavior of students
- Search formulation vs query formulation
- Citation indexing, indexes, indices
- Citation analysis, analyses, analyzing, analysing citations

Do you search British or American English?





Why is citation based searching superior?

Implies topical relatedness (except for research methodology related generic works, introductory textbooks)

Far less dependent on

- matching free vocabulary of user & document
- appropriate assignment of descriptors by human indexer
- appropriate choice of descriptors by users
- changing descriptors within a single database
- variant preferred descriptor and lead-in terms across databases

Citations are micro units of thought (Garfield)

Subject headings and descriptors are assigned to the macro level for books, articles, conference papers

The Citation Chain & Network

- Following the trains of thoughts of authors
- References cited by paper X
- References citing paper X
- The cited papers of the ones cited by and citing paper X
- Hard work in the print world – clicking back and forth on the Web

The Citation Chain & Network

- Links are the high-tech equivalents of references
- How to know which links (references) are best for you
- Novel clues from the initial search results
- Number of references (reference count)
- “Times cited by” scores (citedness count)
- Ambiguity of the term “citation count”

The birth of an idea

Science, Vol:122, No:3159, p.108-111, July 15, 1955

Citation Indexes for Science:

A New Dimension in Documentation through Association

Eugene Garfield, Ph.D.

Eugene Garfield

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Eugene Garfield has been telling this since 1955 doing this since the '60s

GARFIELD E
CITATION INDEXES FOR SCIENCE - NEW DIMENSION IN DOCUMENTATION THROUGH ASSOCIATION OF IDEAS
SCIENCE 122 (3159): 108-111 1955
Times Cited: 248
LINKS

Garfield E
How can impact factors be improved?
BRITISH MEDICAL JOURNAL 313 (7054): 411-413 AUG 17 1996
Times Cited: 136
LINKS VIEW FULL TEXT

GARFIELD E
CITATION INDEXING FOR STUDYING SCIENCE
NATURE 227 (5259): 669& 1970
Times Cited: 130
LINKS VIEW FULL TEXT

GARFIELD E
SCIENCE **CITATION INDEX**-NEW DIMENSION IN **INDEXING** - UNIQUE APPROACH UNDERLIES VERSATILE BIBLIOGRAPHIC SYSTEMS FOR COMMUNICATING + EVALUATING INFORMATION
SCIENCE 144 (361): 649& 1964
Times Cited: 102
LINKS

GARFIELD E, SHER IH
NEW FACTORS IN EVALUATION OF SCIENTIFIC LITERATURE THROUGH **CITATION INDEXING**
AMERICAN DOCUMENTATION 14 (3): 195& 1963
Times Cited: 69

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Few online services and publishers treat cited references well or very well

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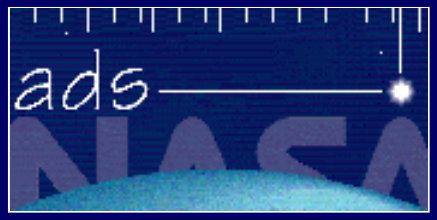
Most open access citation databases treat cited refs very well – but not GS



partially open access

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Multi-disciplinary – discipline-focused

- WoS and Scopus largest multidisciplinary databases
- HWP science, med + social science + humanities
- Google Scholar – it is free, and ….. ?
- Microsoft Live Academic Search – no citation counts

Discipline - oriented databases

- PubMed Central – medicine + related
- arXiv - physics and some related
- NASA/ADS – astrophysics and some related
- PsycINFO– psychology
- ACM DL – computer science
- CiteSeer – computer science
- RePEC and its derivatives – economics
- SMEAL – business

The effectiveness of citation based searching

- Combination of database content & software capabilities
- PsycINFO as perfect test subject
- Same content with different software capabilities
- The good, the bad and the ugly, and the “does not get it”

The effectiveness of citation based searching

- What a difference the software can make anyhow? (shrug and fret)

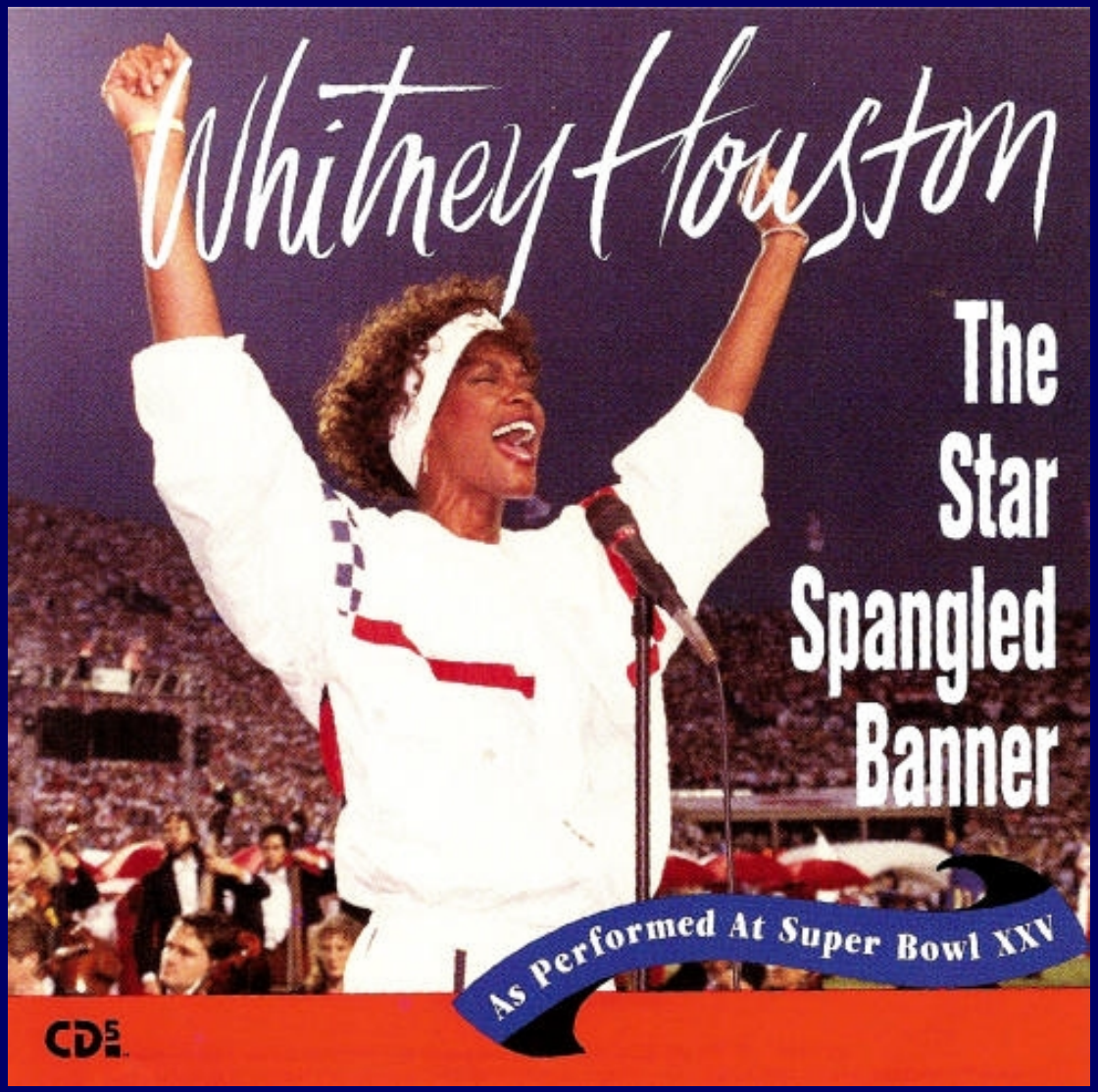
- **What a difference the software can make !** (exclaim)

Citation

collecting,
parsing,
indexing,
matching,

browsing,
searching,
sorting,
ranking
outputting
linking

Same tunes, same lyrics, but...



Oh Say, Can't You Sing: Celebs Who Tortured the National Anthem

From Rosanne to Jimi Hendrix, 'The Star Spangled Banner' Sometimes Gets Mangled

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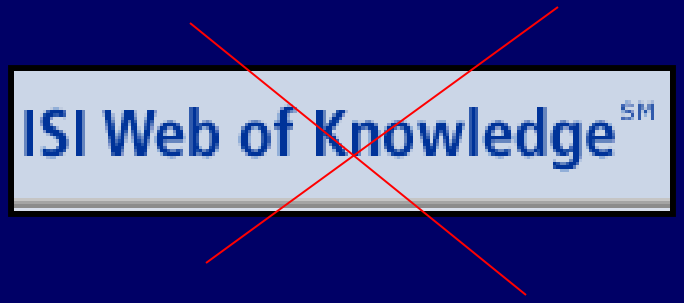
PsycINFO variations



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Why evaluate and compare databases?

Same reasons as for evaluating and comparing

- Cars, Homes, Vacation Plans, Investments
- Smart spending of big money
- Professional pride (and expectations)
- Need for objective information
- Need for subjective information (your perspective)

Why compare and evaluate citation-related content and software features -

- Citations as value added data elements are new (except for ISI databases)
- Citations have unique formats, no standard authority control tools
- Citations are mismanaged in many databases
- Citations have great values as author-selected topical “descriptors” & instant bibliographies
- Yes, some citations are irrelevant, manipulative, but …

- Why compare and evaluate citation-related content and software features

- Citations can become instant links, or at least search queries for Web-wide search engines, mega-databases, publishers' archives
- Comprehensive set of citations can multiply the value of a single good record by a factor of 10-12
- Records with hot-linked cited references trigger further research
- Long live DOI linking

The purpose of database comparison

- We did it with print reference sources for a long time
- Content AND Software
- Practical and financial implications
- Thermometers, pulse-meters, blood pressure meters are not enough
- X-Ray, blood tests, DNA tests, MRI
- Quantitative and qualitative aspects
- Quantifiable, measurable vs. philosophical-ideal
- Can’t do it in your lunch break
- Going beyond PR-talk of database publishers

Database content measures

- Size
- Dimensions
- Subject emphases (at journal vs. article level)
- Composition
- Source type coverage
- Journal base
- Consistency/substance of coverage
- The special aspects of cited references as data elements

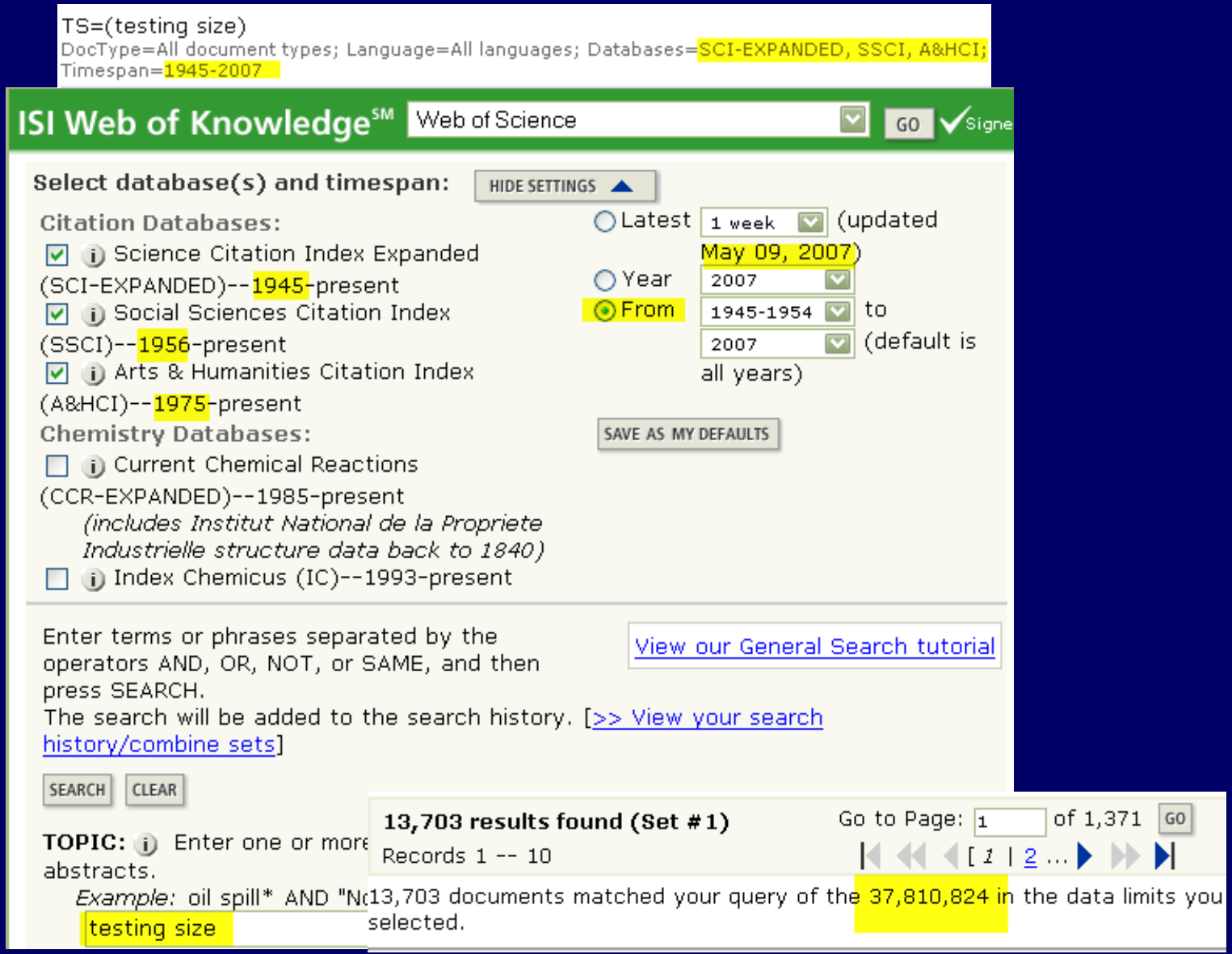
Content Measures

- Database size vs citation enhanced segment size
- Database dimensions vs citation enhanced segment' s dimension
- Subject scope discipline focused vs multidisciplinary
- Source type coverage (articles, books, dissertations)
- Journal base with and without cited refs
- Consistency of coverage & citation enhancement
- The hosting environment (context)

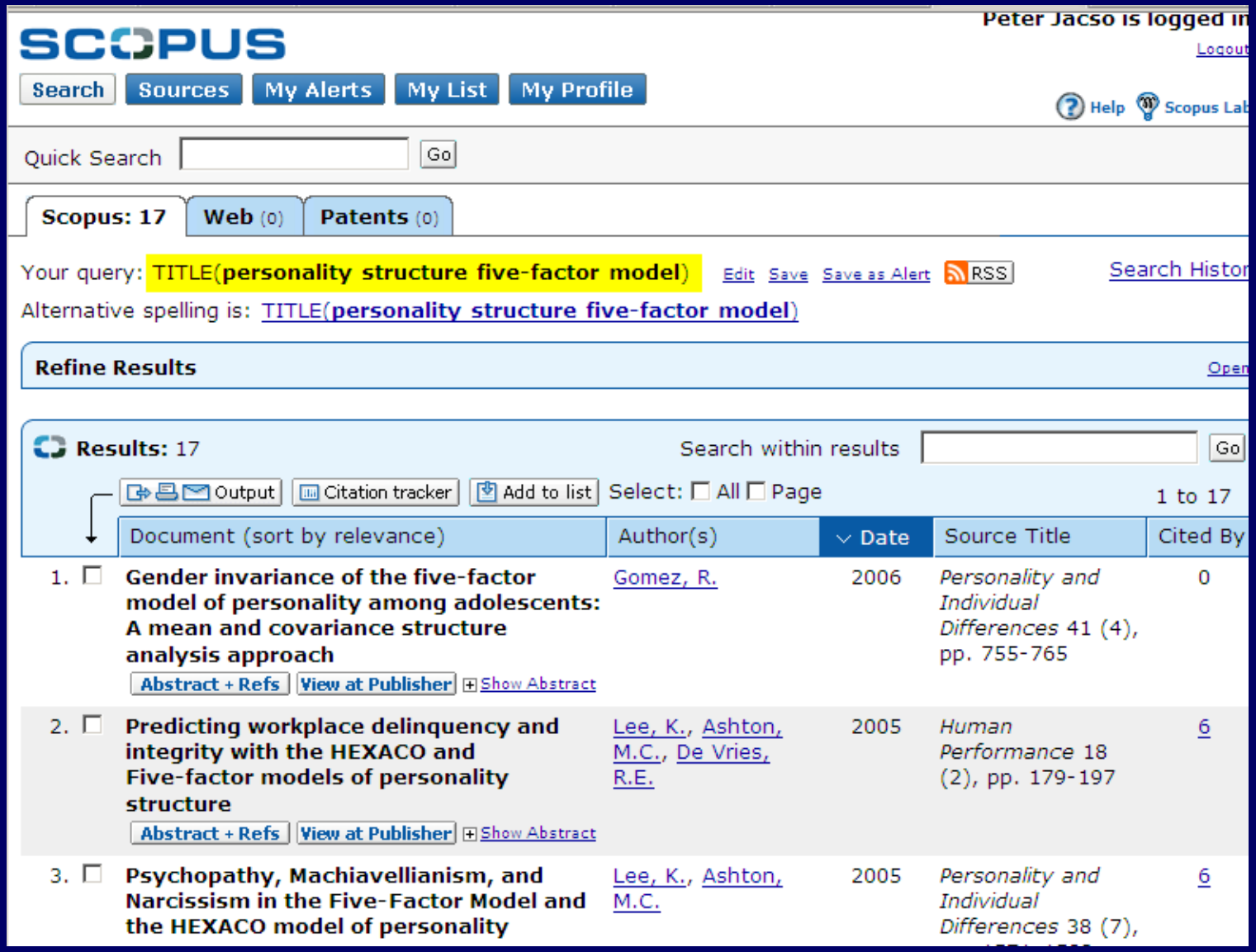
Database size

- Guinness Book of World Records mentality
- Bigg**est**, Great**est**, Larg**est**, Green**est**
- Fast**est**, Strong**est**, Lean**est**, Mean**est**
- Where is quality? Which is the “best**est**” for **you**?
- Aeroflot – the biggest airline …. and (one of) the worst before glasnost

Testing the size of WoS



Scopus 5 factor model



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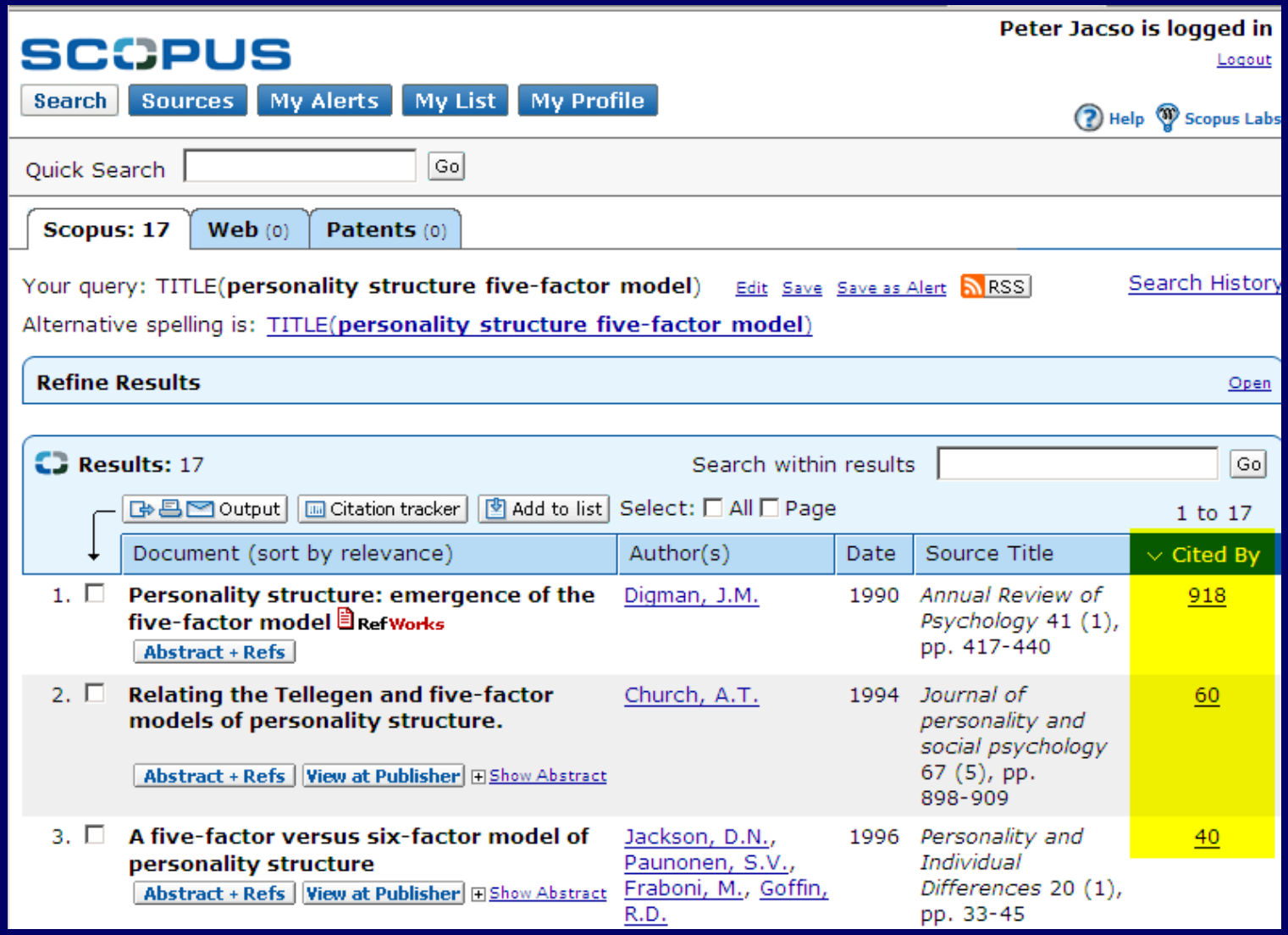


SCOPUS

Peter Jacso is logged in

Logout

Search | Sources | My Alerts | My List | My Profile

Help | Scopus Labs

Quick Search Go

Scopus: 17 | Web (0) | Patents (0)

Your query: TITLE(**personality structure five-factor model**) Edit Save Save as Alert RSS Search History

Alternative spelling is: TITLE(**personality structure five-factor model**)

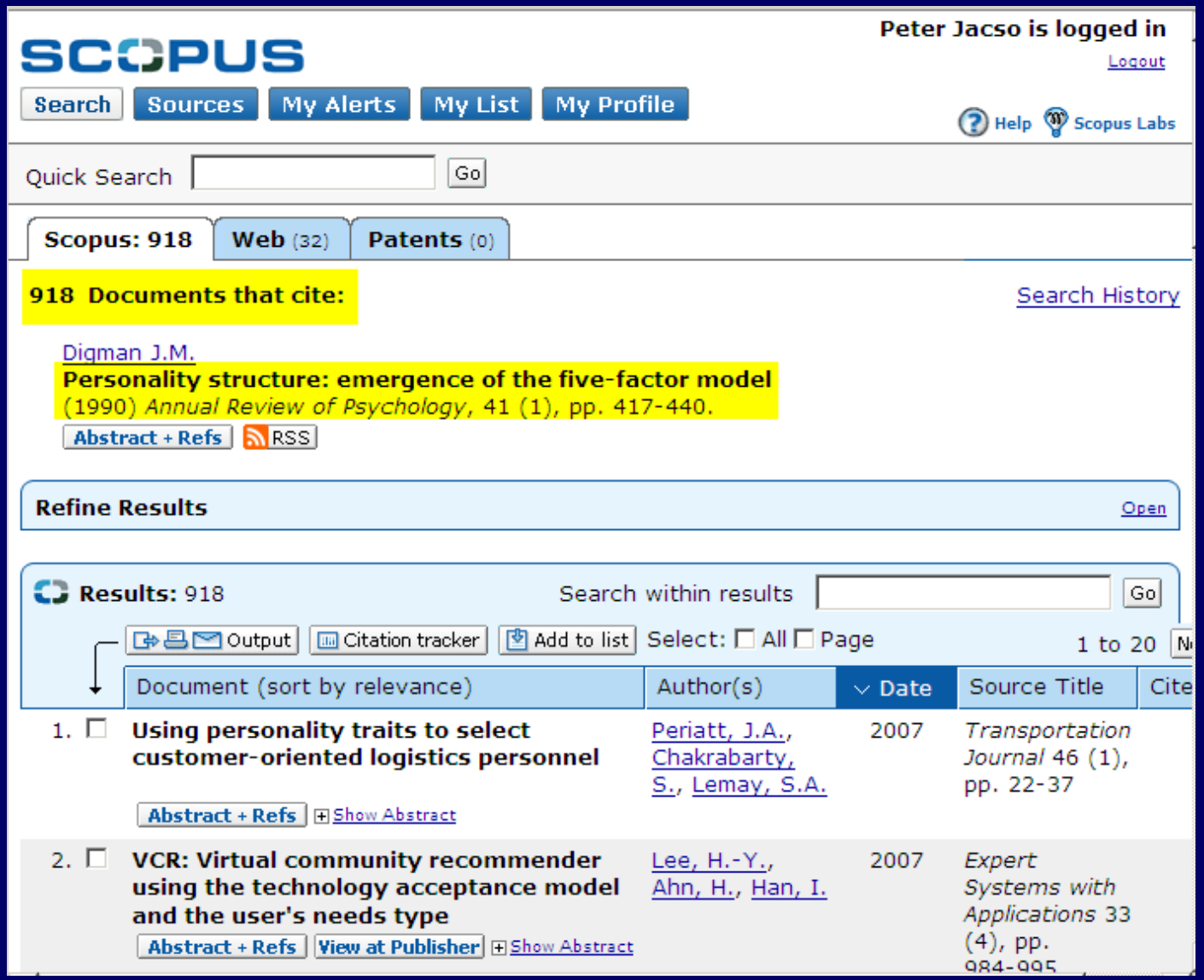
Refine Results Open

Results: 17 Search within results Go

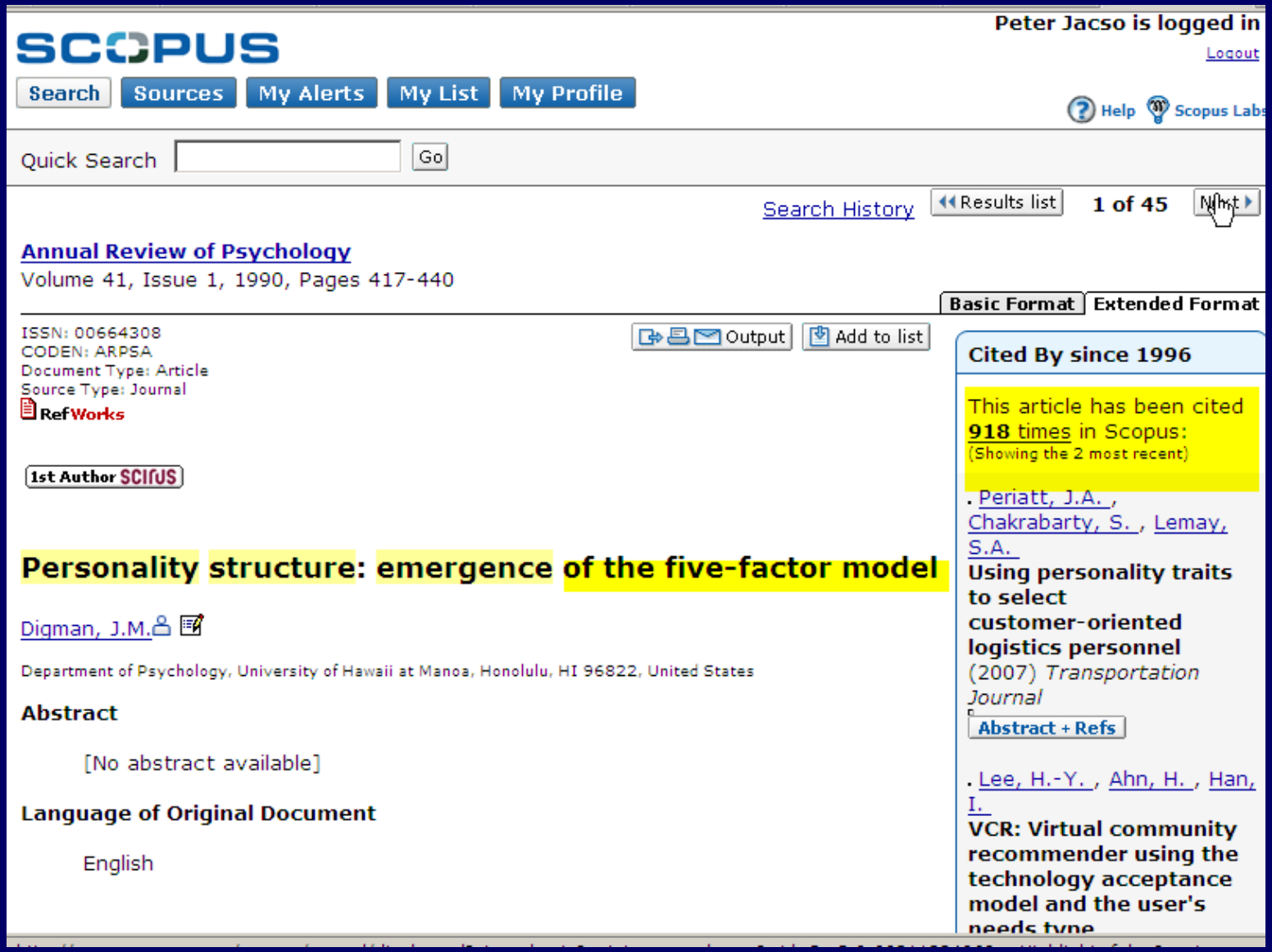
Output | Citation tracker | Add to list | Select: All Page 1 to 17

	Document (sort by relevance)	Author(s)	Date	Source Title	Cited By
1.	**Personality structure: emergence of the five-factor model** RefWorks Abstract + Refs	Digman, J.M.	1990	*Annual Review of Psychology* 41 (1), pp. 417-440	918
2.	**Relating the Tellegen and five-factor models of personality structure.** Abstract + Refs | View at Publisher | Show Abstract	Church, A.T.	1994	*Journal of personality and social psychology* 67 (5), pp. 898-909	60
3.	**A five-factor versus six-factor model of personality structure** Abstract + Refs | View at Publisher | Show Abstract	Jackson, D.N., Paunonen, S.V., Fraboni, M., Goffin, R.D.	1996	*Personality and Individual Differences* 20 (1), pp. 33-45	40

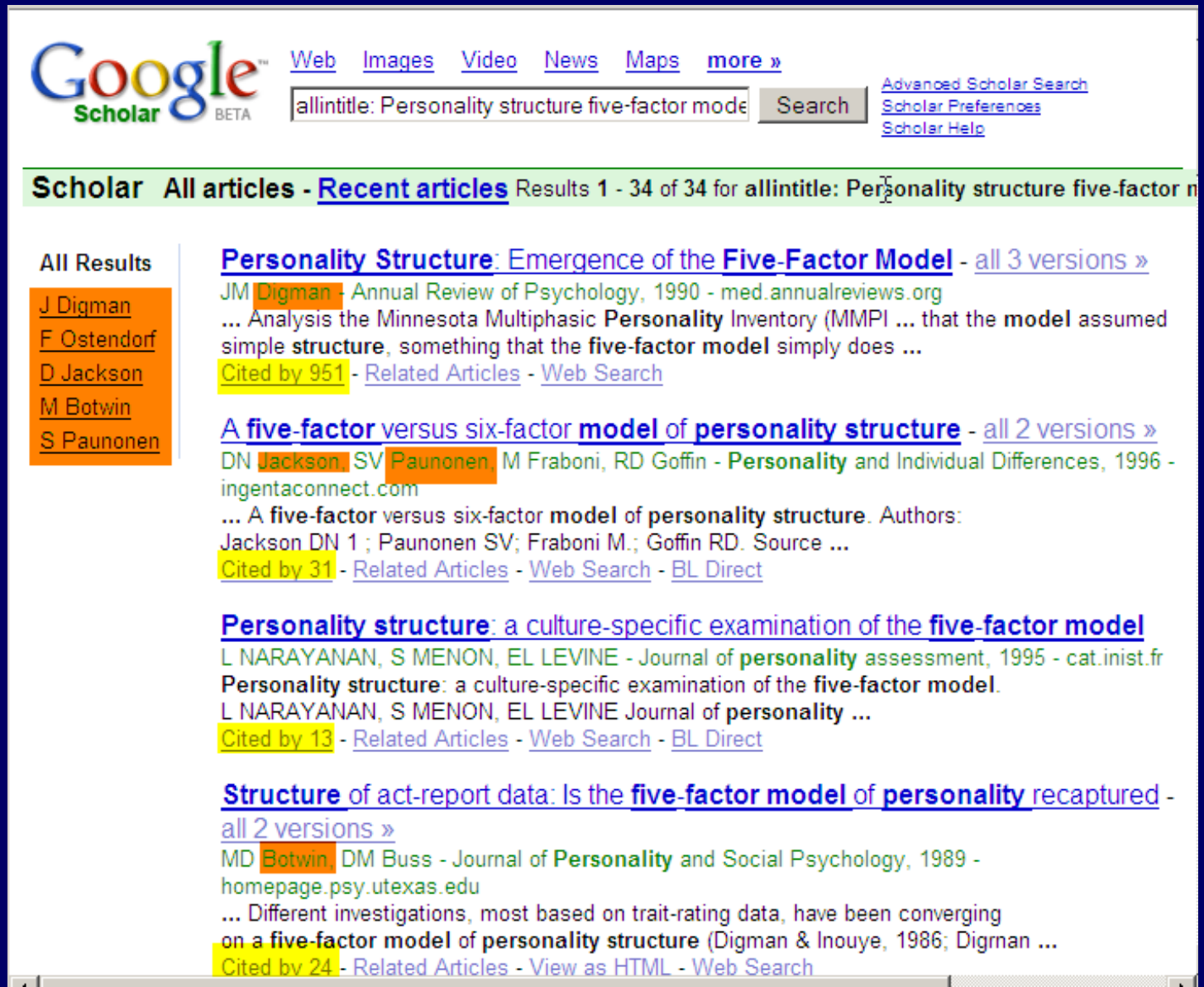
Scopus 5 factor model



Scopus 5 factor model



Google Scholar 5 factor model + low-IQ clustering



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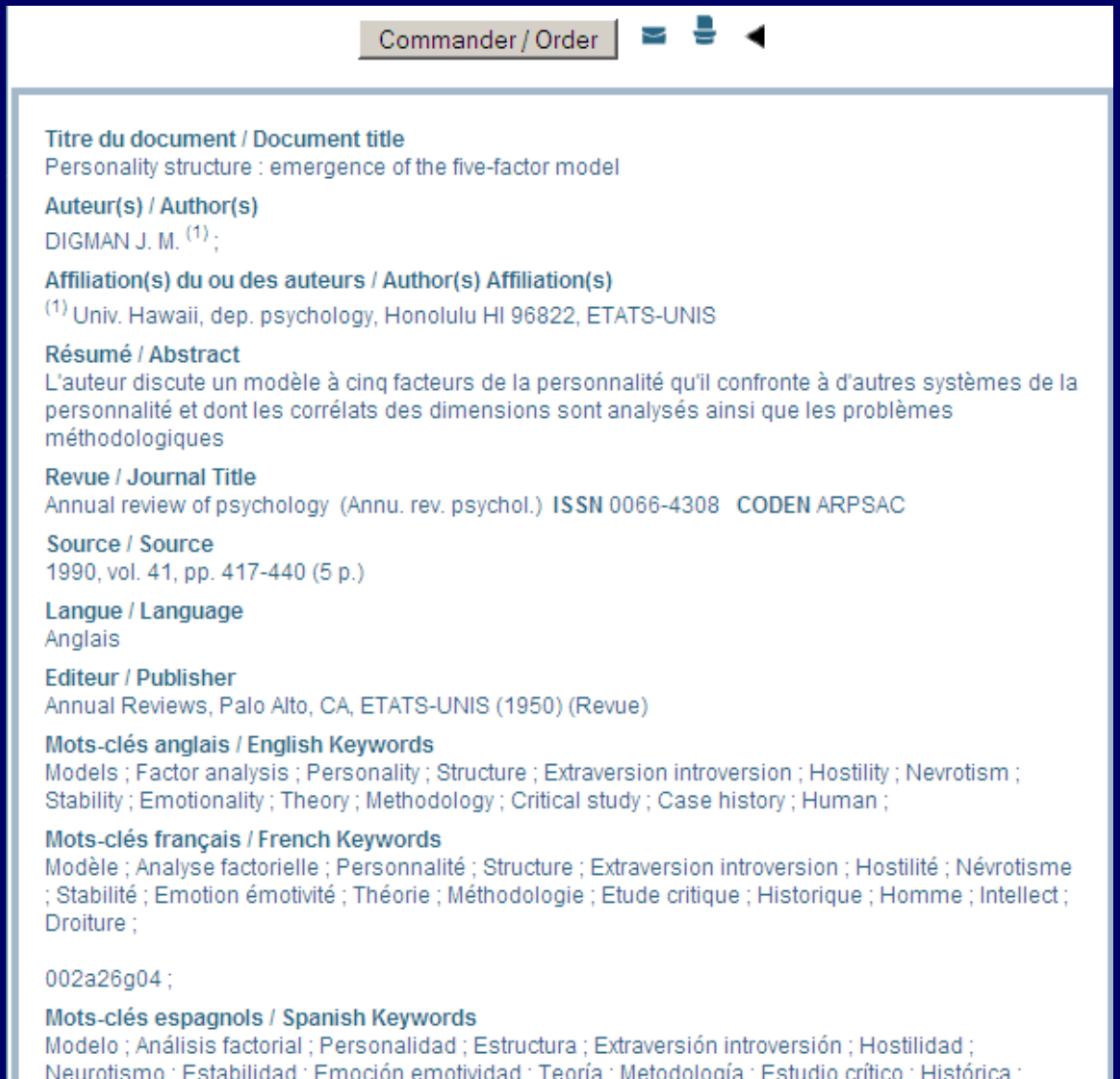
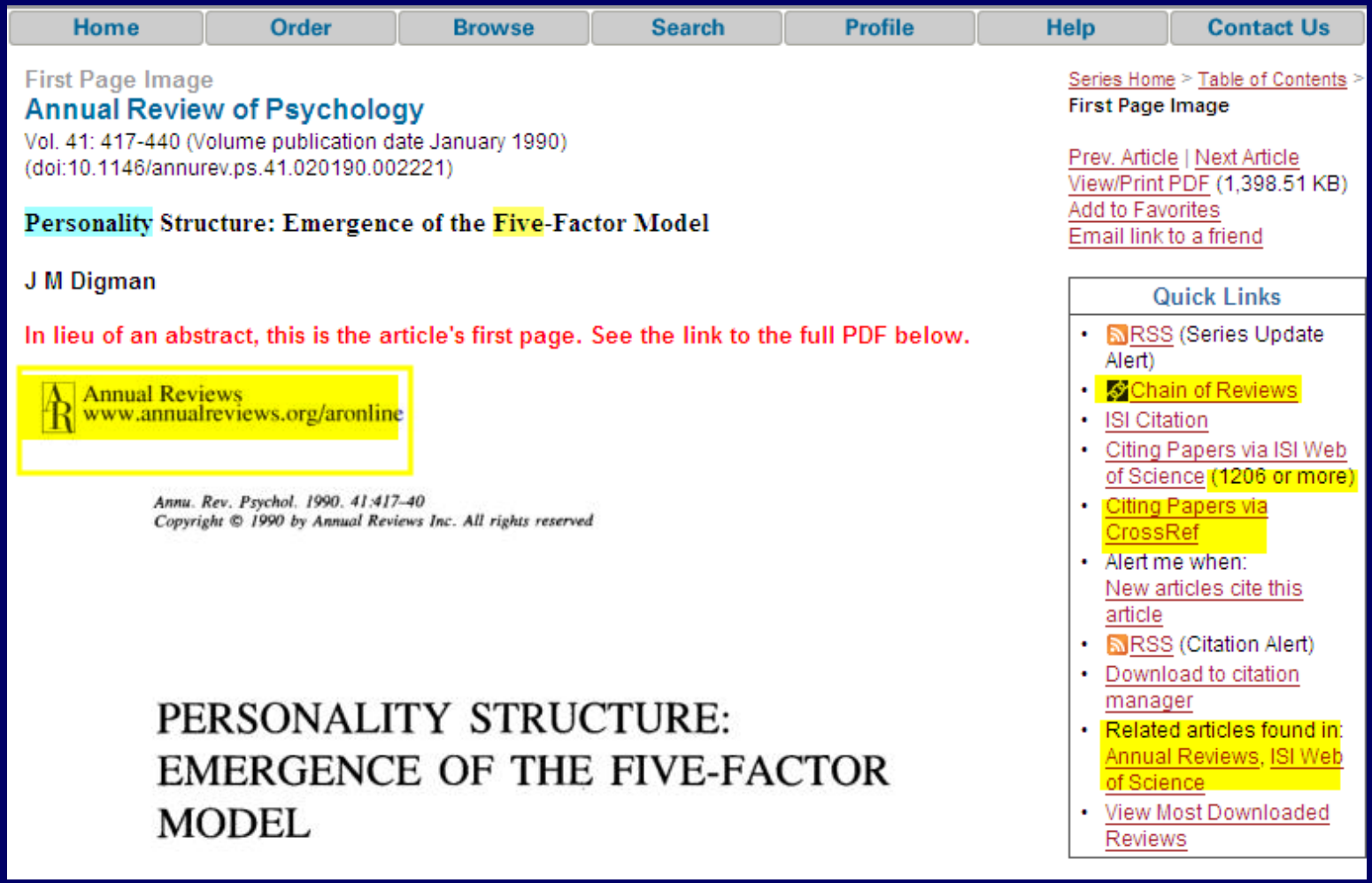
Link from GS 5 factor model to PASCAL db



Link from GS 5 factor model to Publisher's digital collection



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First Page Image

Annual Review of Psychology

Vol. 41: 417-440 (Volume publication date January 1990)
(doi:10.1146/annurev.ps.41.020190.002221)

Personality Structure: Emergence of the Five-Factor Model

J M Digman

In lieu of an abstract, this is the article's first page. See the link to the full PDF below.

Annual Reviews
www.annualreviews.org/aronline

Annu. Rev. Psychol. 1990. 41:417–40
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PERSONALITY STRUCTURE:
EMERGENCE OF THE FIVE-FACTOR
MODEL

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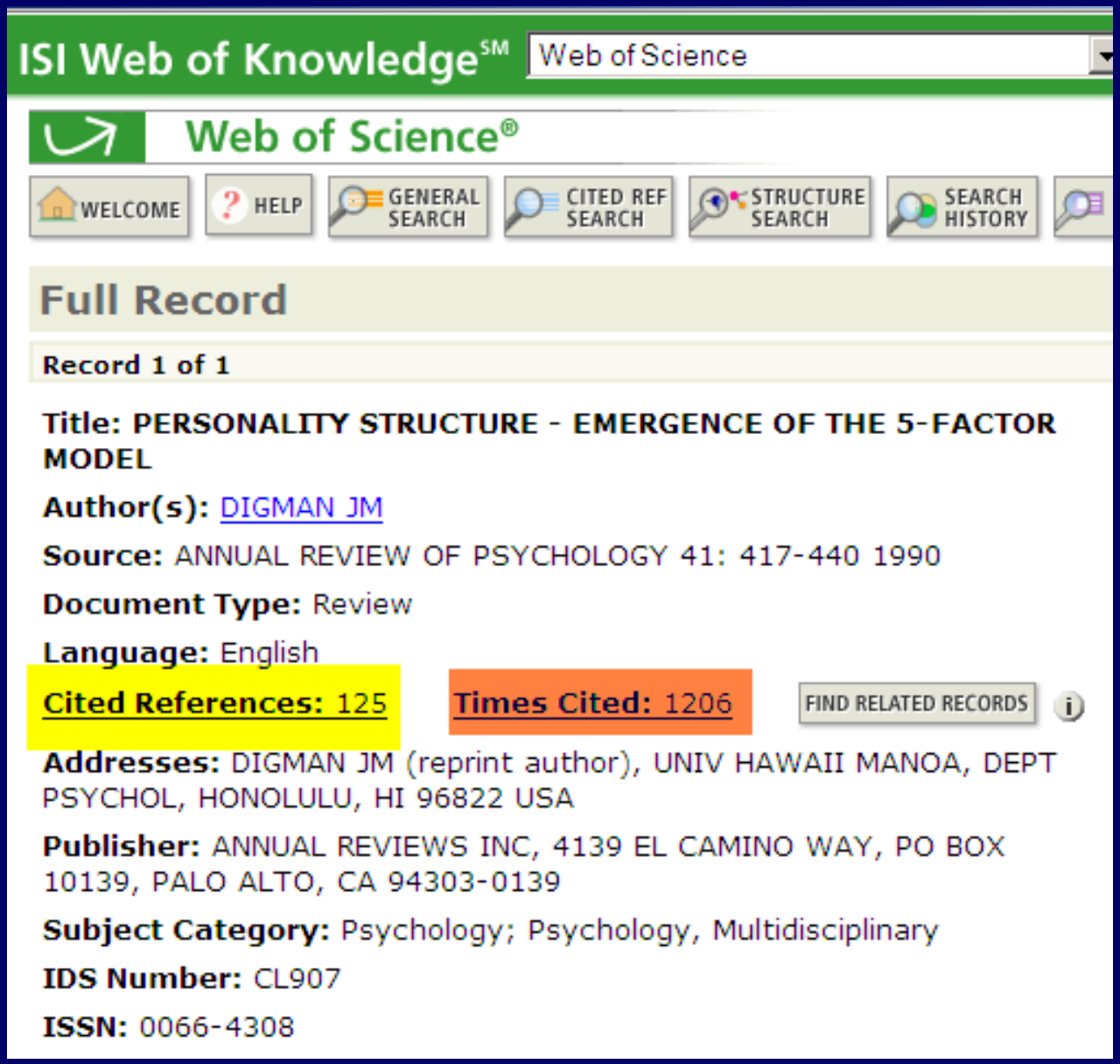
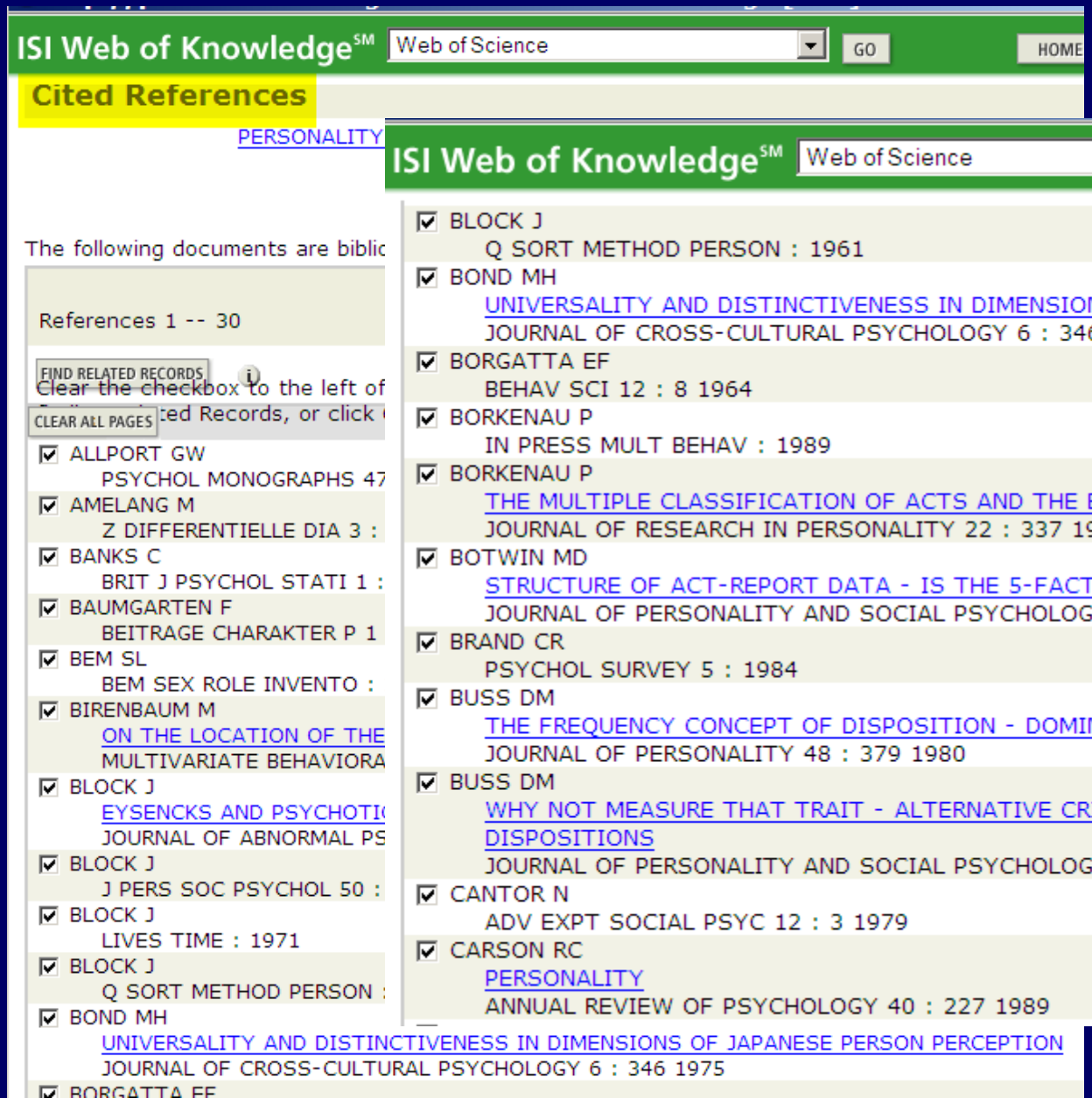
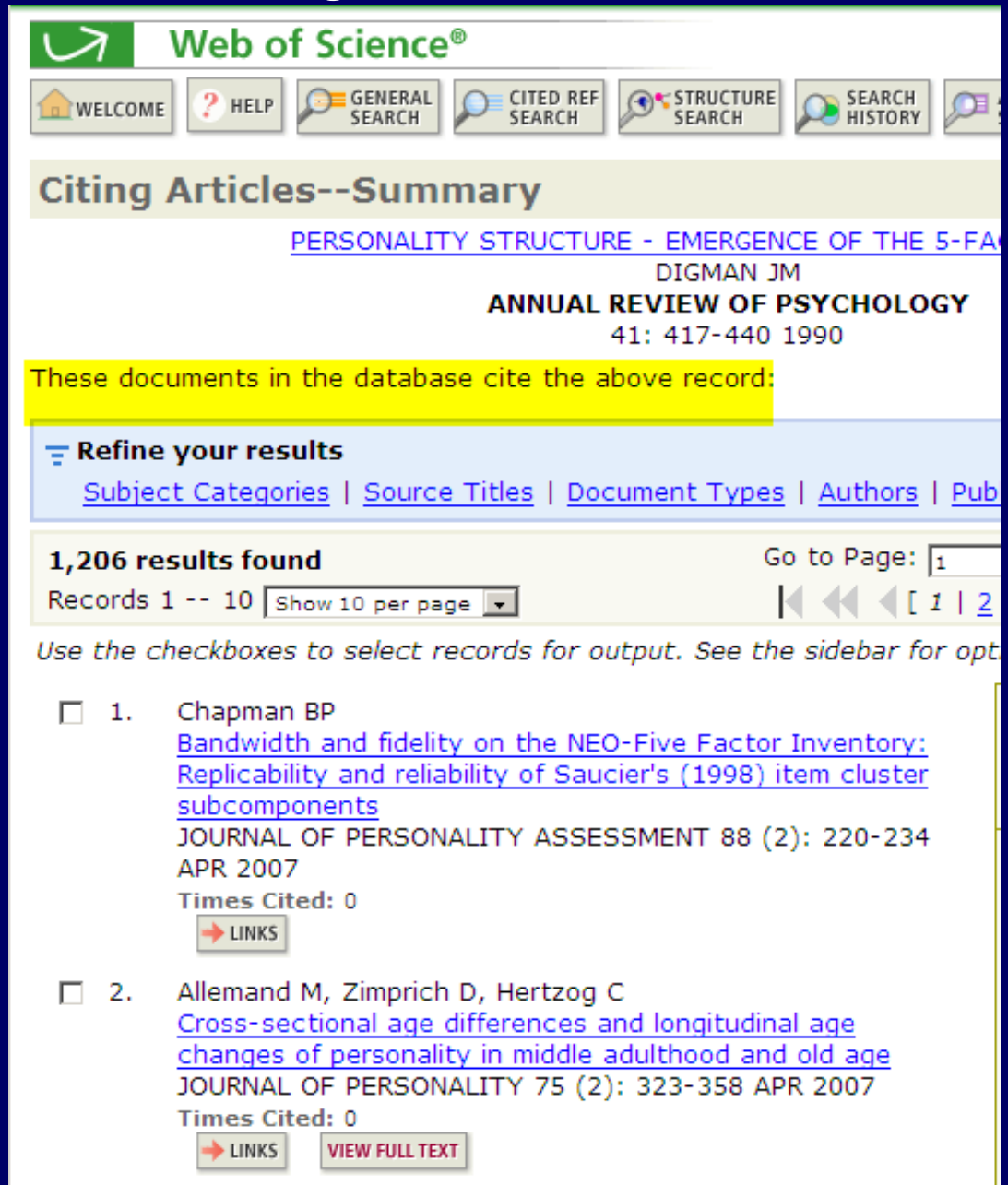
WoS Personality structure 5 factor model



WoS Personality structure 5 factor model



WoS Personality structure 5 factor model



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Database size – How big is it? *

as of May, 2007

WoS 1945 – May, 2007	38.1 million records
entire Dialog ISI subset	33.3 million records
WoS 1980 – May, 2007	28.4 million records

Scopus 1966 – May, 2007	30.1 million records
Scopus 1980 – May, 2007	25.1 million records

Google Scholar (GS) maybe 10-12 million records, but it plays fast and loose in reporting its hit counts and citedness counts & mixes champagne and cheap wine

* versus **how** it is big (later)

Scopus is not licensed by subset

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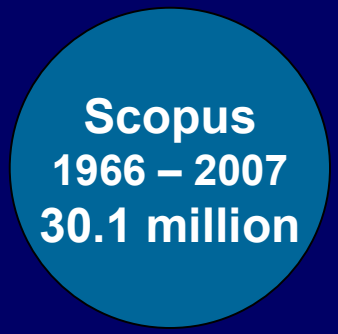
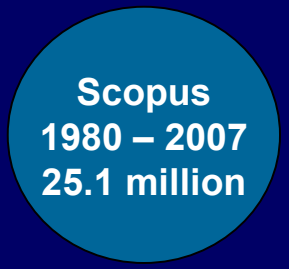
Database Size
as of May 15, 2007





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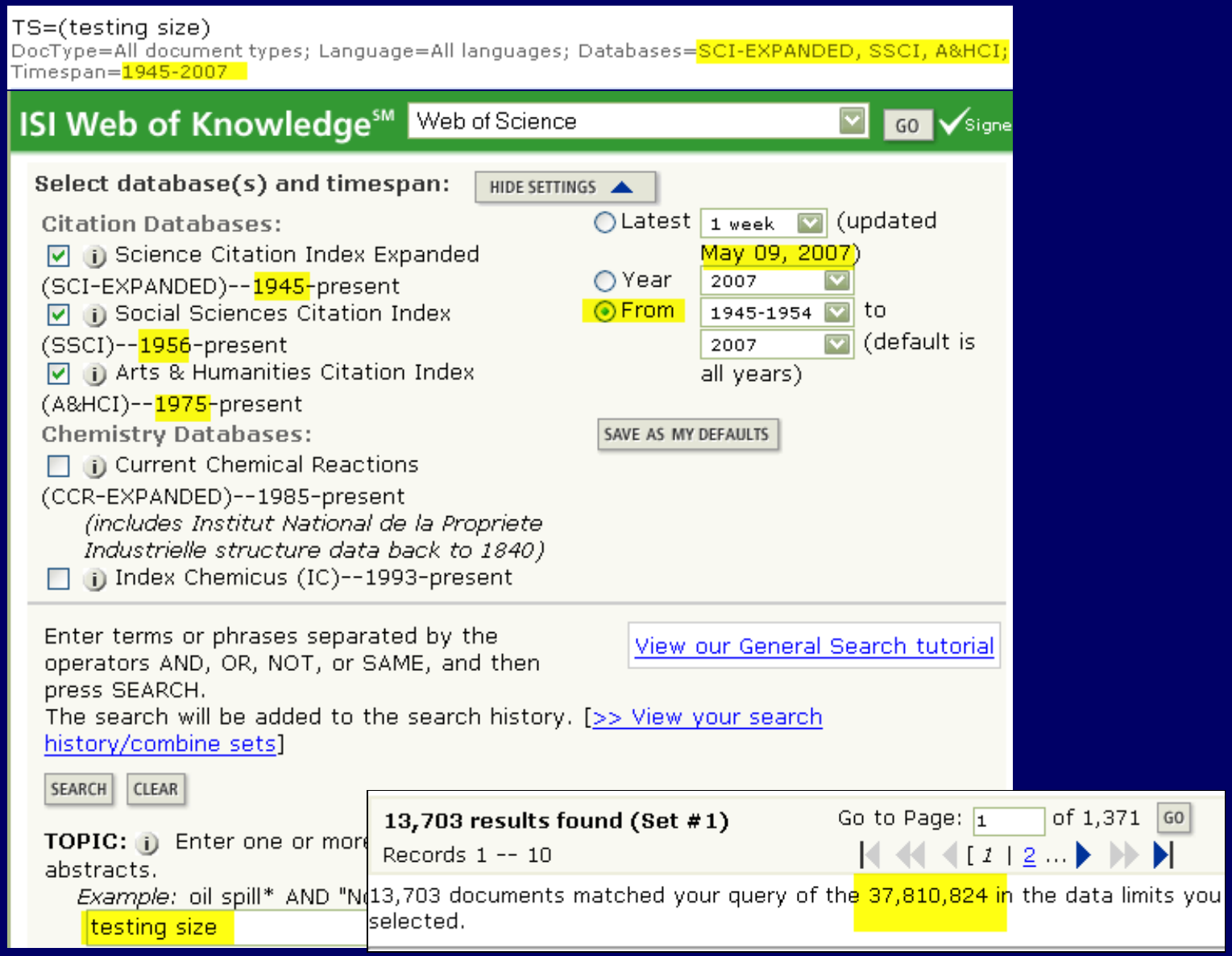
Testing the size of WoS



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Testing the size of WoS

TS=(testing size)
DocType=All document types; Language=All languages; Database=SCI-EXPANDED; Timespan=1945-2007

12,967 documents matched your query of the 30,747,154 in the data limits you selected.

TS=(testing size)
DocType=All document types; Language=All languages; Database=SSCI; Timespan=1945-2007

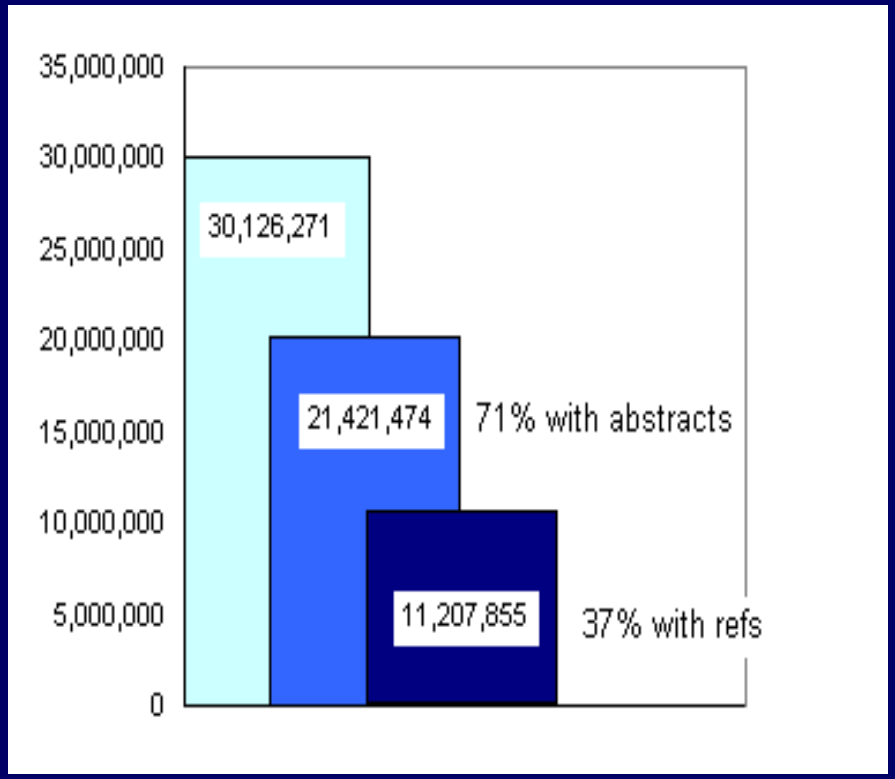
1,382 documents matched your query of the 5,383,212 in the data limits you selected.

TS=(testing size)
DocType=All document types; Language=All languages; Database=A&HCI; Timespan=1945-2007

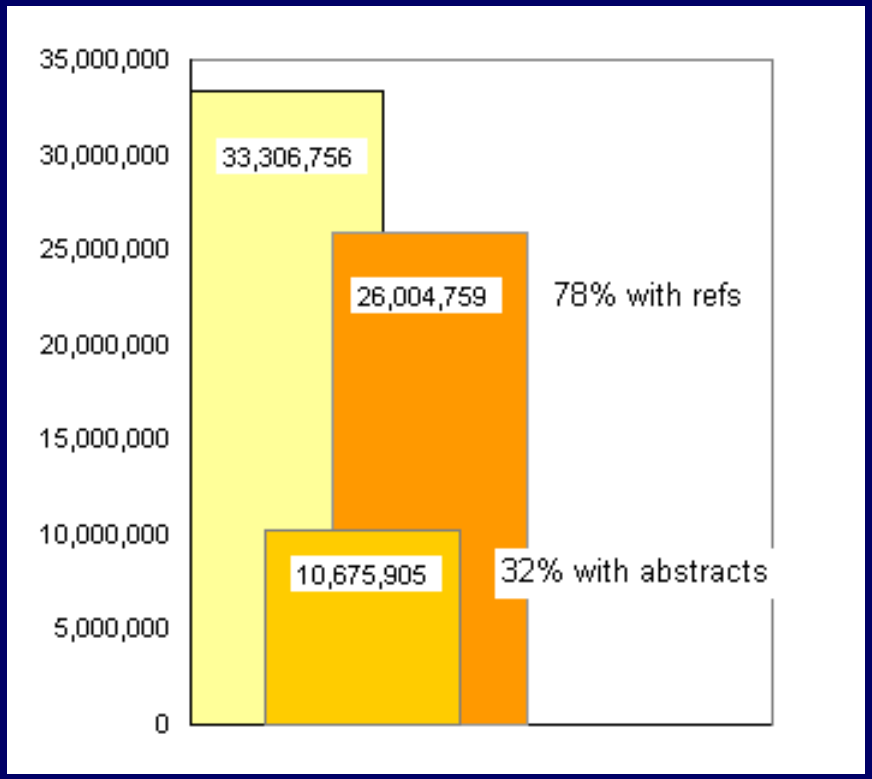
14 documents matched your query of the 3,474,790 in the data limits you selected.

Jacso

Scopus – WoS (Dialog/ISI subset) overall



Scopus entire database
1900- May, 2007

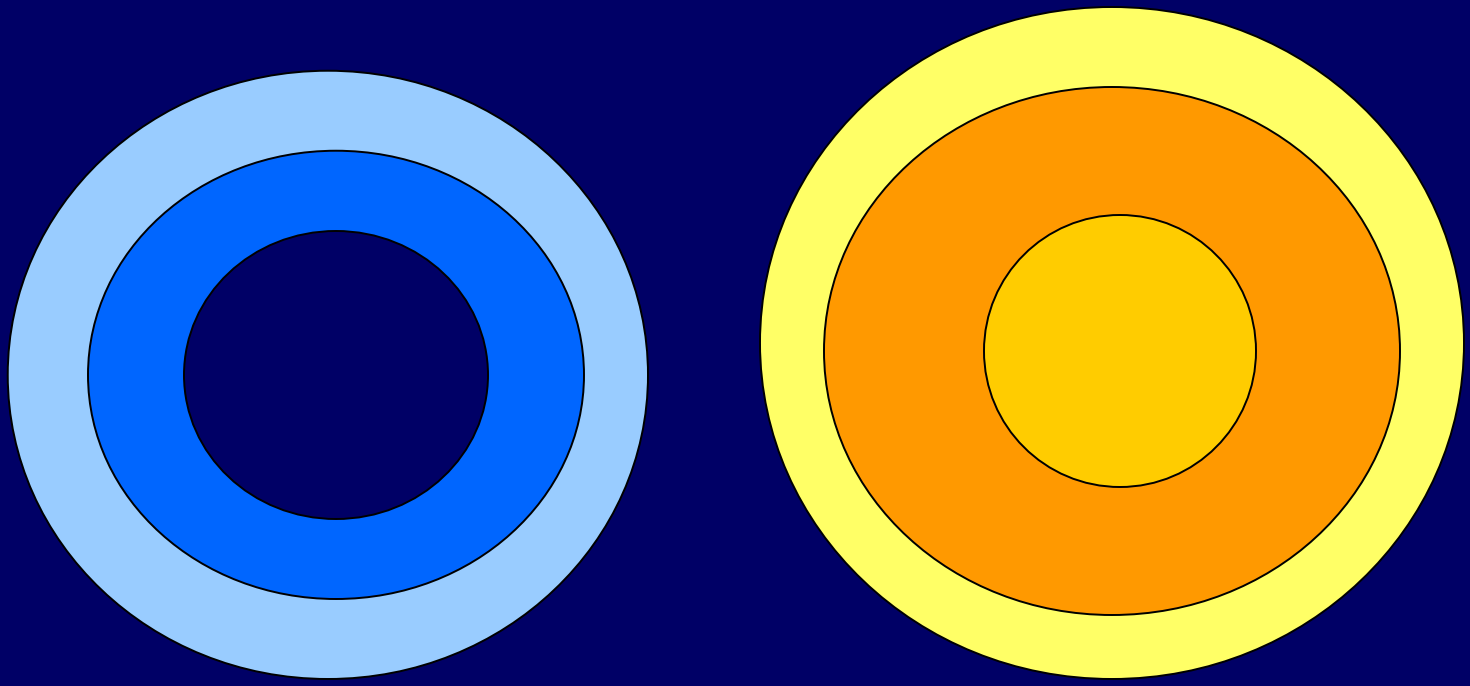


WoS has 4.77 million records not available in Dialog ISI files

4. Scopus-profile-may-1-2007/overall

24. Wos-file7...petya/overalll

Scopus vs. WoS (Dialog/ISI subset) as of May, 2007



All records
30,126,271

with abstracts
21,421,474

with refs
11,207,855

All records
33,306,756

with abstracts
10,675,905

with refs
26,004,754

Total number of estimated cited references

Scopus

230 - 240 million references

WoS (Dialog/ISI subset)

520 - 530 million references

WoS entire database (guesstimate)

650 - 670 million references

PsycINFO

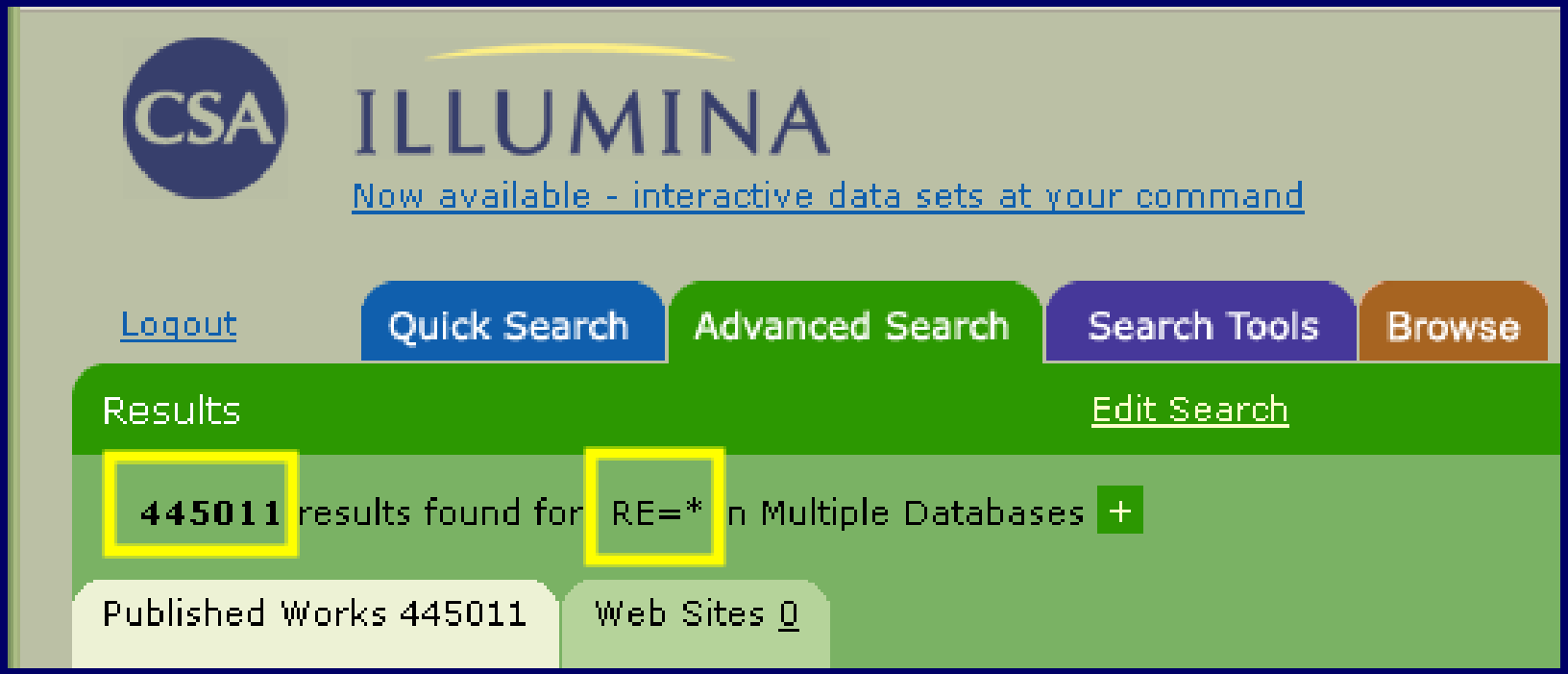
23-24 million references (600,000 recs)

Measuring the size

Entire database

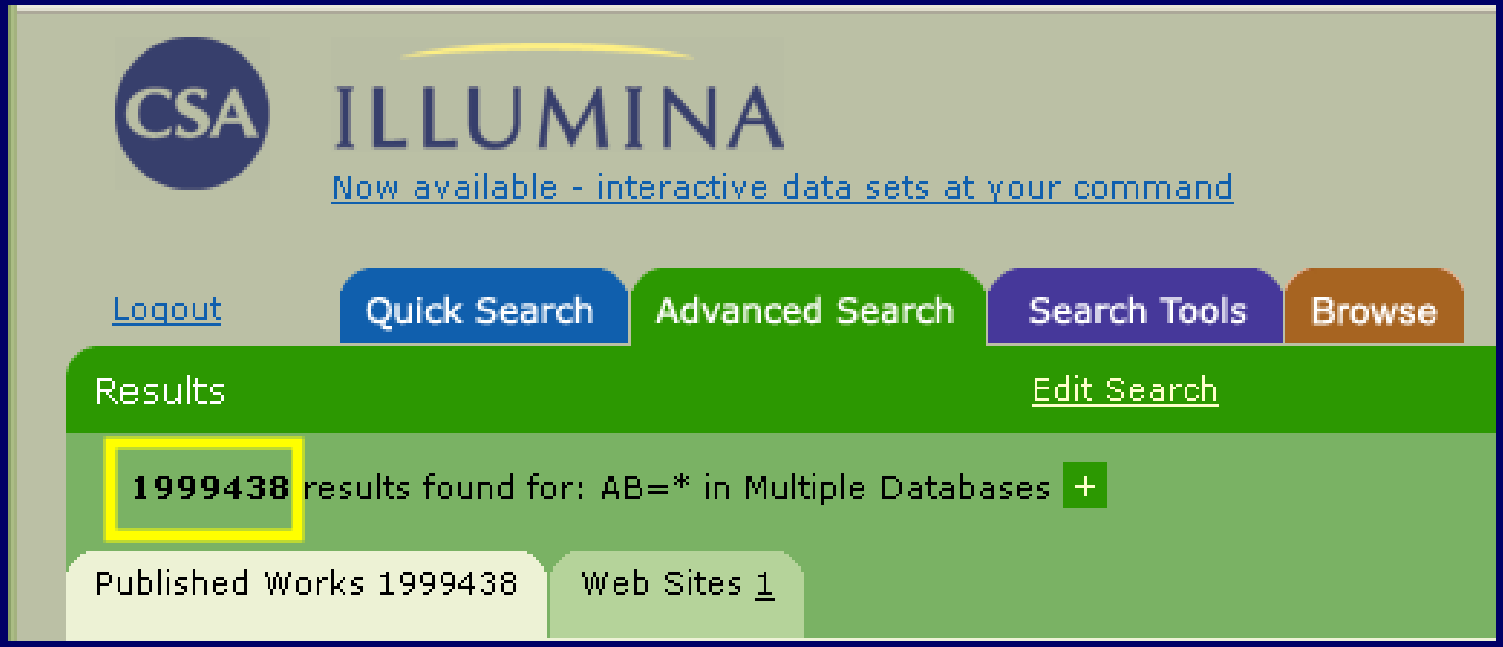
Records with cited refs

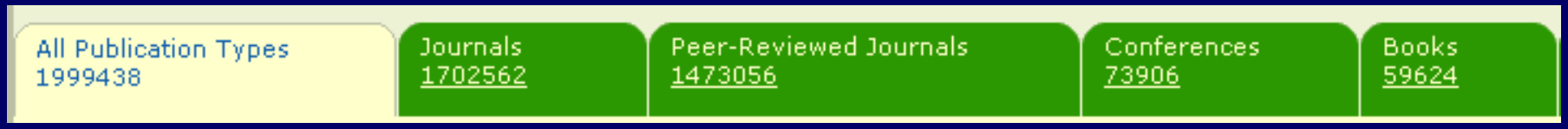
Entire database

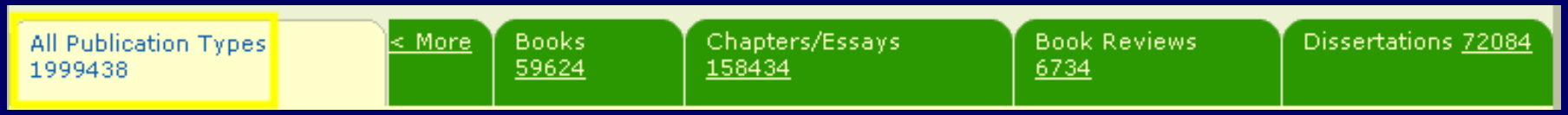


Records with abstract

Entire database







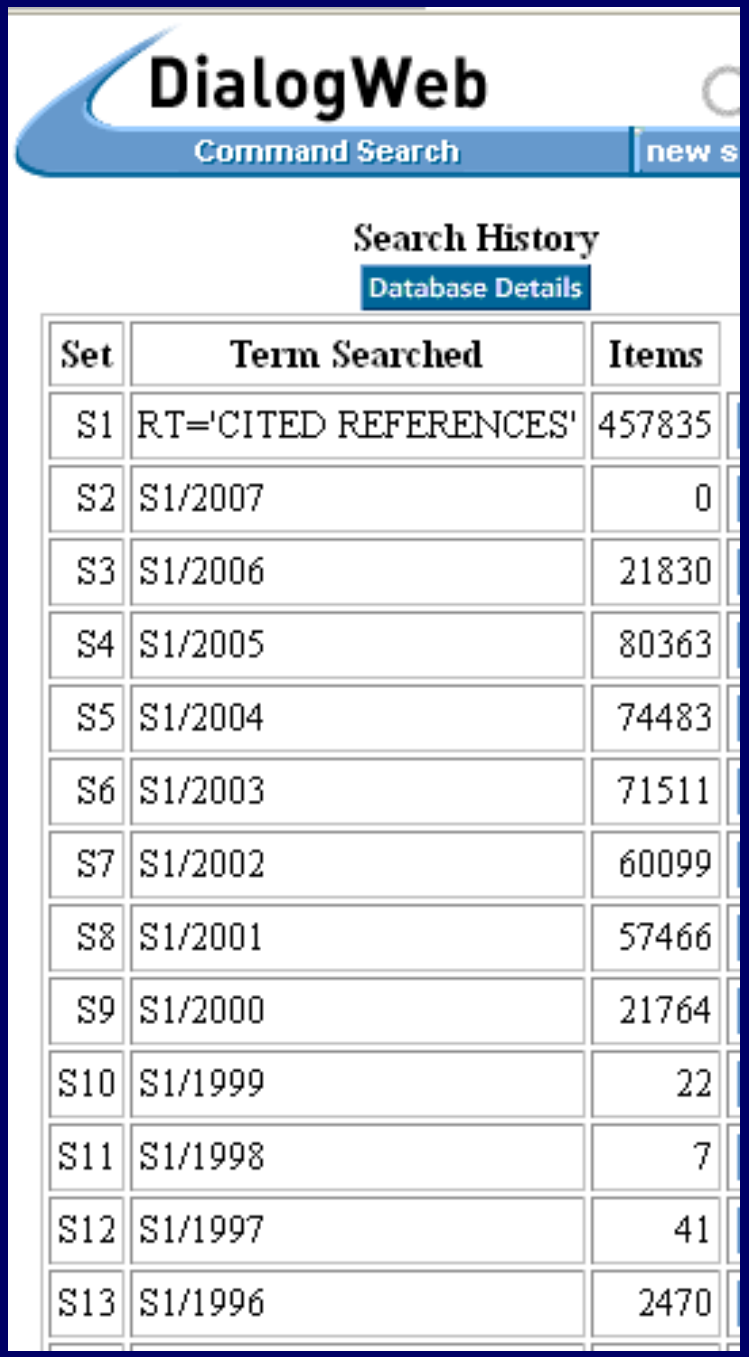
Publication years with cited references

- Comprehensively starting 2001 (with the exceptions listed above)
- Retrospectively for earlier years as available

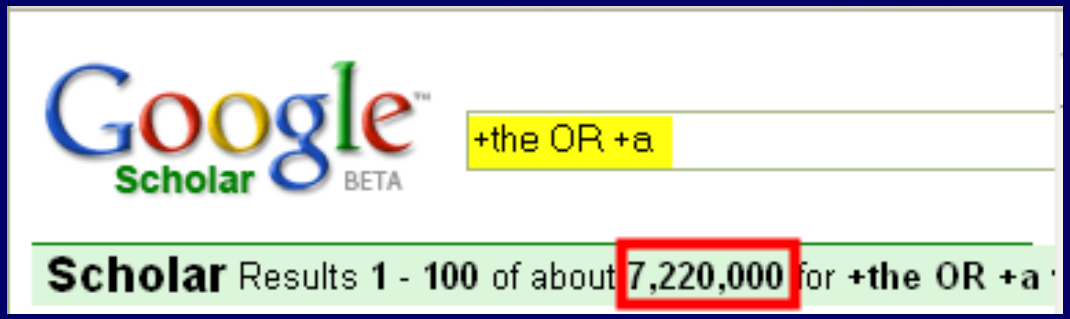
Distribution by publication year (as of July 2006)

533,983 21,179,214

YEAR	RECORDS	CITED REFERENCES	YEAR	RECORDS	CITED
2006	52,147	2,015,109	1962	1,066	13,006
2005	95,033	3,927,588	1961	641	8,291
2004	88,247	3,623,282	1960	847	11,151
2003	78,940	3,311,008	1959	1,144	19,185
2002	69,274	2,8	1	401	5,098
2001	51,994	2,227,769	1957	6	7,099
2000	1	764,172	1956	638	7,858
1999	12,572	488,712	1955	739	760
199	2,331	117,941	1954	689	9,
19	2,635	136,196	1953	587	7,
19	2,469	121,265	1952	429	5,
199	1,864	87,872	1951	404	4,
1994	1,657	82,786	1950	373	,316
1993	1	89,852	1949	341	4,280
1992	1,841	84,705	1948		5,044
1991	1,729	73,2	1947	226	4,172
1990	2,661	64,901	1946	222	3,950
1989	1,720	64,841	1945	206	4,221
1988	1,407	49,430	1944	246	4,102
1987	957	34,914	1943	306	5,096
1986	36	1,577	1942	265	4,648

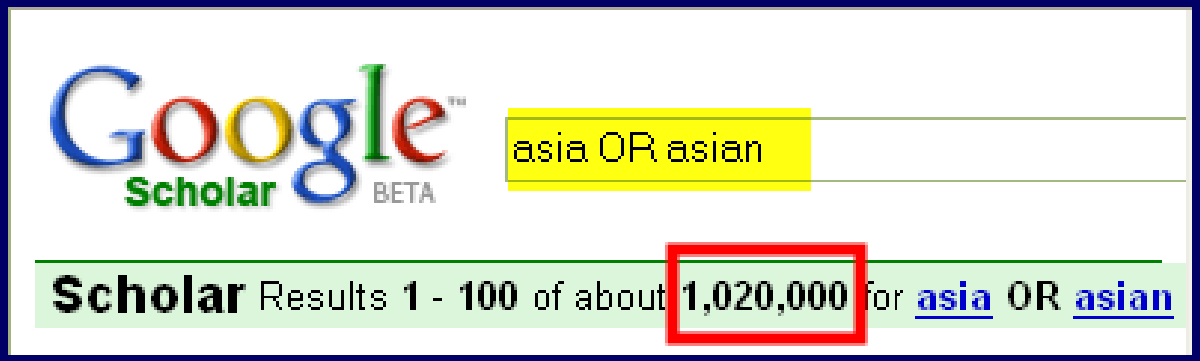

DialogWeb
Command Search
new s
Search History
Database Details
Set
Term Searched
Items
S1 RT='CITED REFERENCES' 457835
S2 S1/2007 0
S3 S1/2006 21830
S4 S1/2005 80363
S5 S1/2004 74483
S6 S1/2003 71511
S7 S1/2002 60099
S8 S1/2001 57466
S9 S1/2000 21764
S10 S1/1999 22
S11 S1/1998 7
S12 S1/1997 41
S13 S1/1996 2470

How could we “guesstimate” Google Scholar’s size?



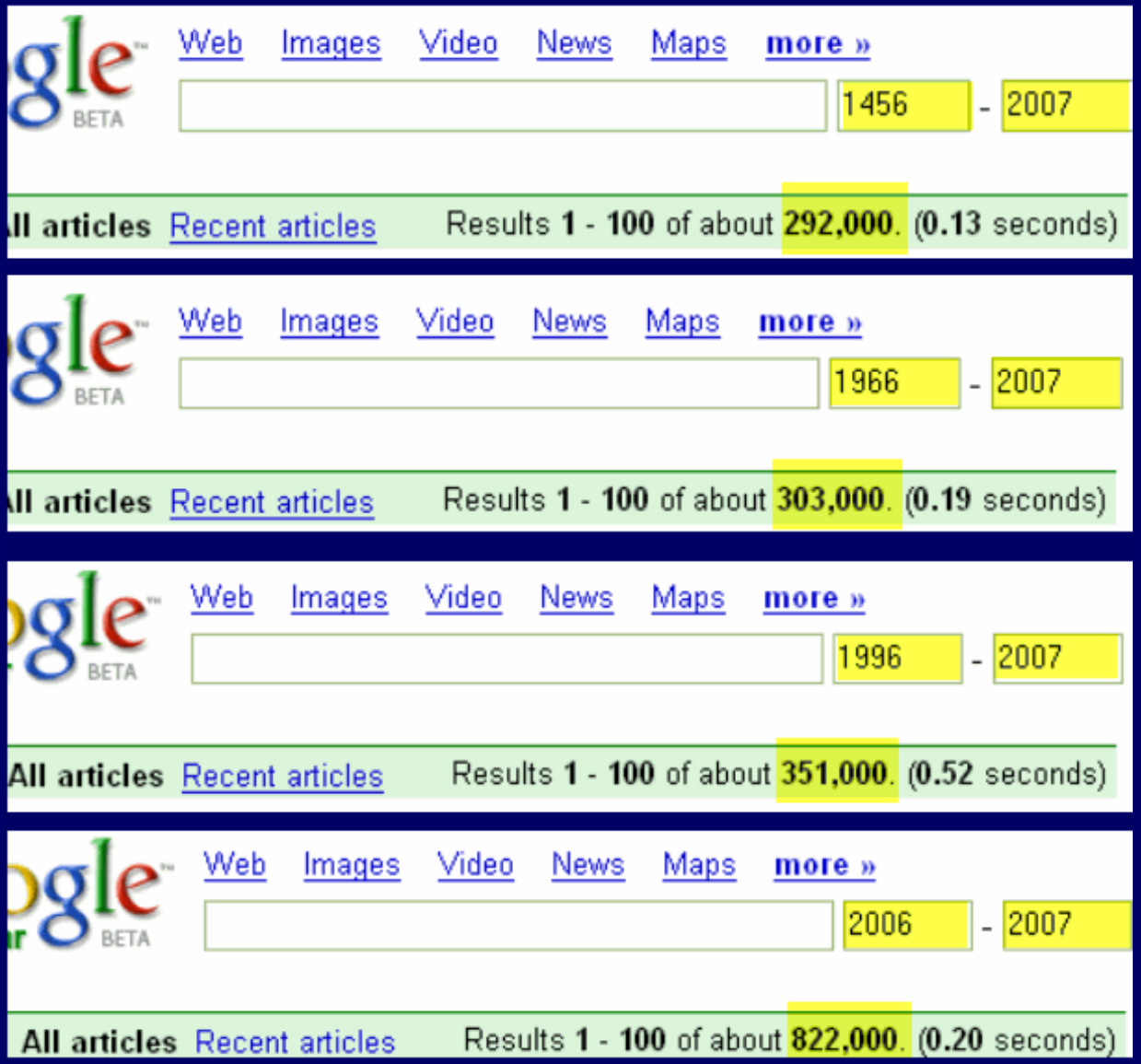
Jacso

Very unorthodox Boolean operation



Jacso

More records for shorter time span – the Google Scholar logic



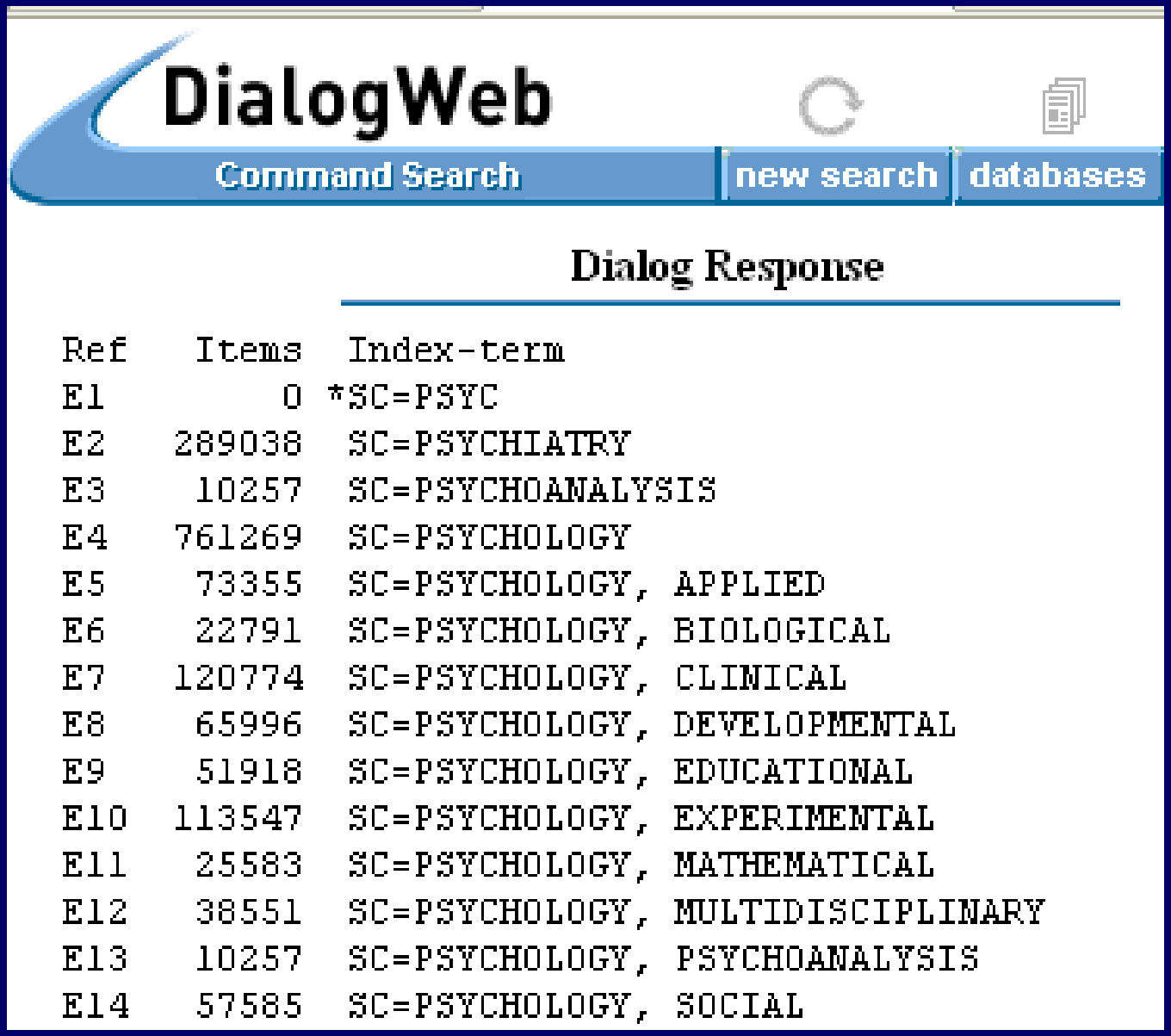
Jacso

Unscholarly Google Scholar

- These are just the obvious signs of the cognitive dysfunctions of GS – more about others later

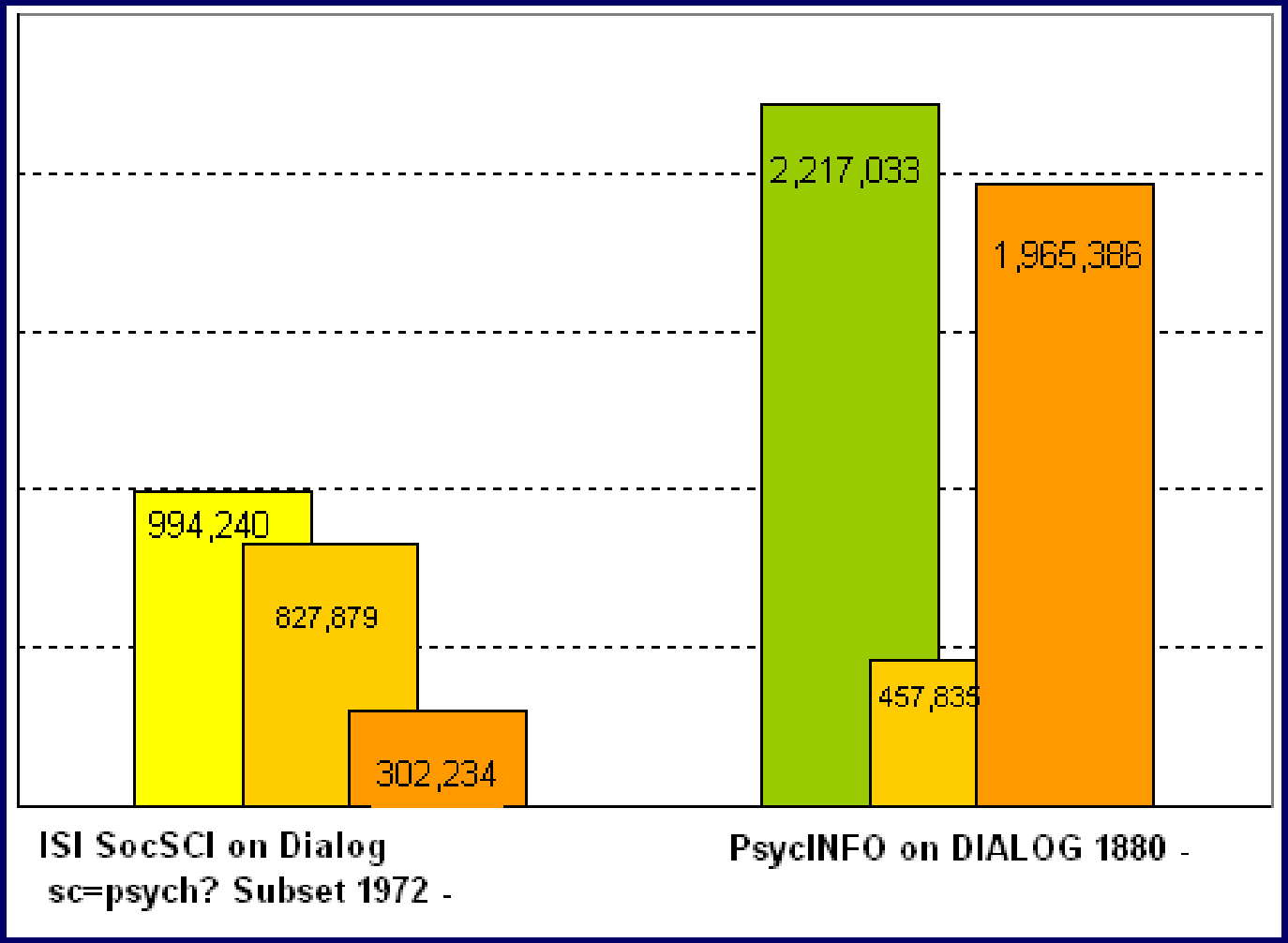
- We should not waste more time trying to discover other well-hidden content features of GS

Topical subset in multidisciplinary databases



Ref	Items	Index-term
E1	0	*SC=PSYC
E2	289038	SC=PSYCHIATRY
E3	10257	SC=PSYCHOANALYSIS
E4	761269	SC=PSYCHOLOGY
E5	73355	SC=PSYCHOLOGY, APPLIED
E6	22791	SC=PSYCHOLOGY, BIOLOGICAL
E7	120774	SC=PSYCHOLOGY, CLINICAL
E8	65996	SC=PSYCHOLOGY, DEVELOPMENTAL
E9	51918	SC=PSYCHOLOGY, EDUCATIONAL
E10	113547	SC=PSYCHOLOGY, EXPERIMENTAL
E11	25583	SC=PSYCHOLOGY, MATHEMATICAL
E12	38551	SC=PSYCHOLOGY, MULTIDISCIPLINARY
E13	10257	SC=PSYCHOLOGY, PSYCHOANALYSIS
E14	57585	SC=PSYCHOLOGY, SOCIAL

Topical subset in multidisciplinary databases
as of 2006 (increased by about 20% by May, 2007)



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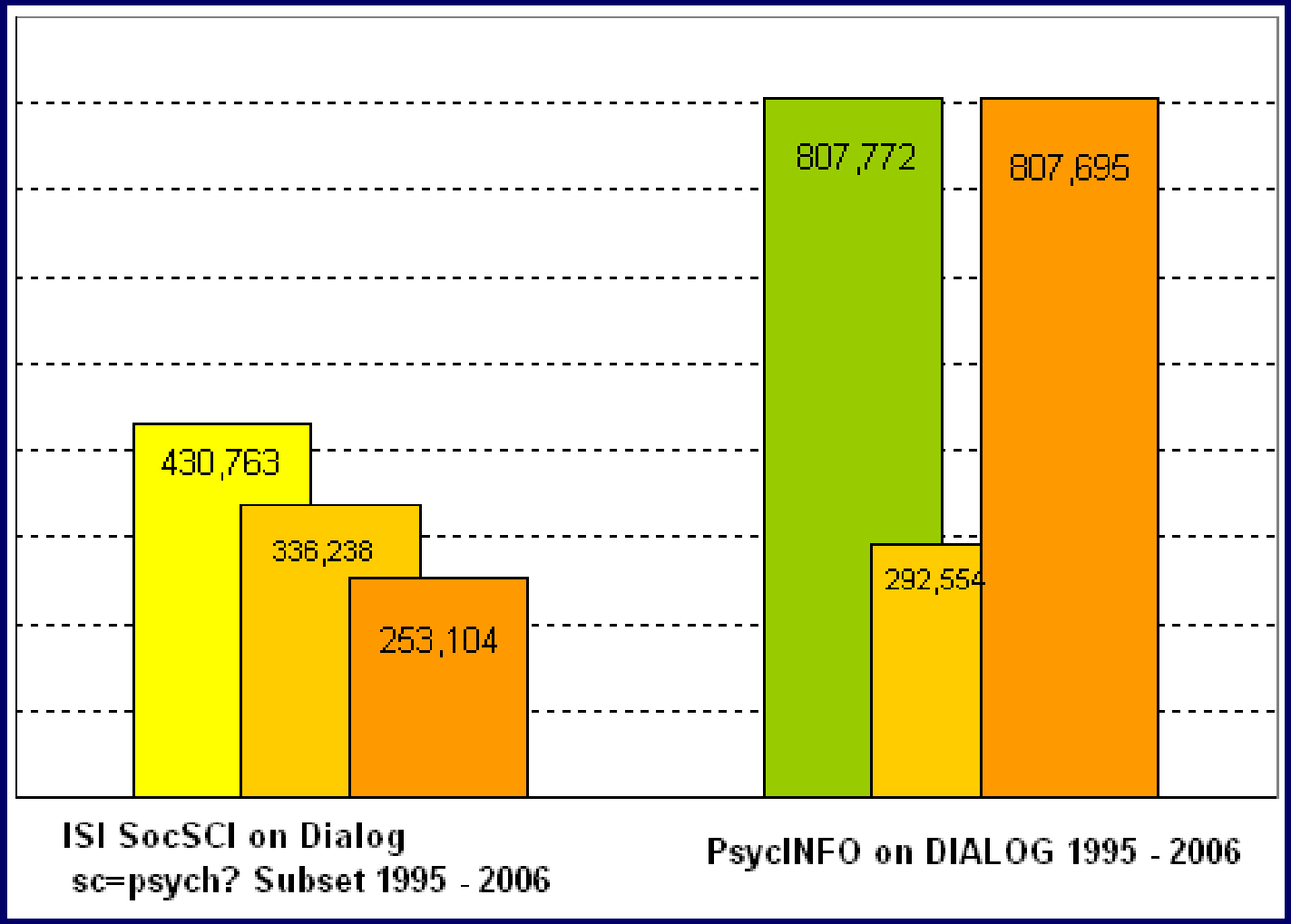
Topical subset in multidisciplinary databases 1995-2006 PRAGA



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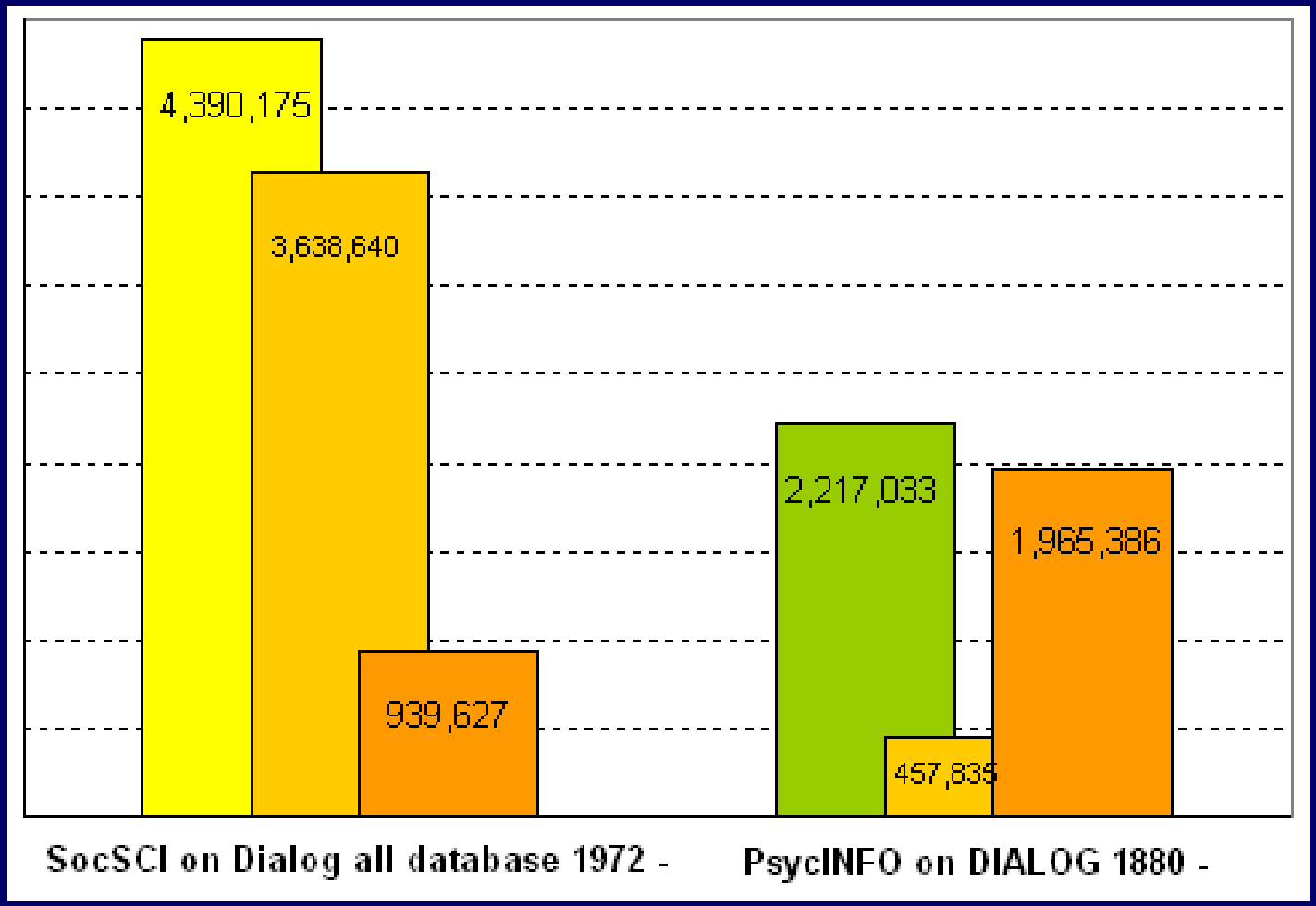
Importance of the whole multidisciplinary databases for citing papers from other disciplines



Jacso

Size of the whole vs. the part

Comprehensive citation enhancement from a given time

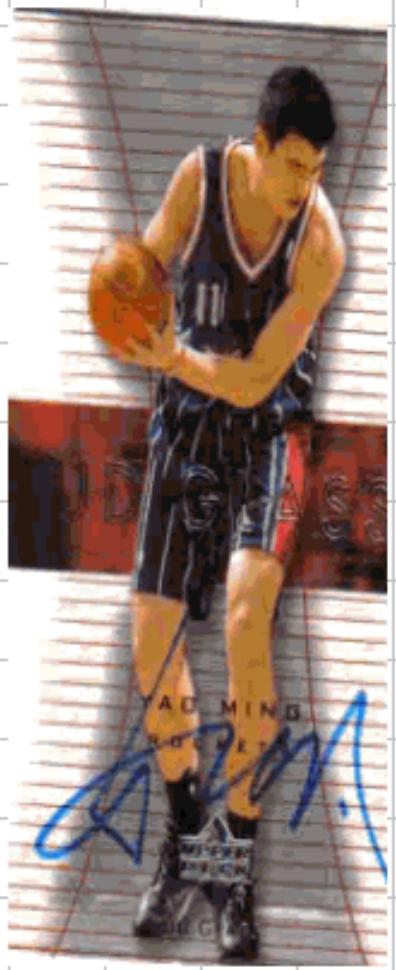
- Citations only for some document types
- Partial, selective citation enhancement before a given time
- What layers are compared

Database dimensions – How is it big?

- Absolute database size is not everything
- Biggest is not always the “best(**est**)”
- **How** is Database A bigger than Database B
- In what shape and form?
- How is the “body” of the database built
- Different disciplines - different preferences
- Presence of cited refs since when?

Bigger horizontally (wider) vs. vertically (taller)

Akebono

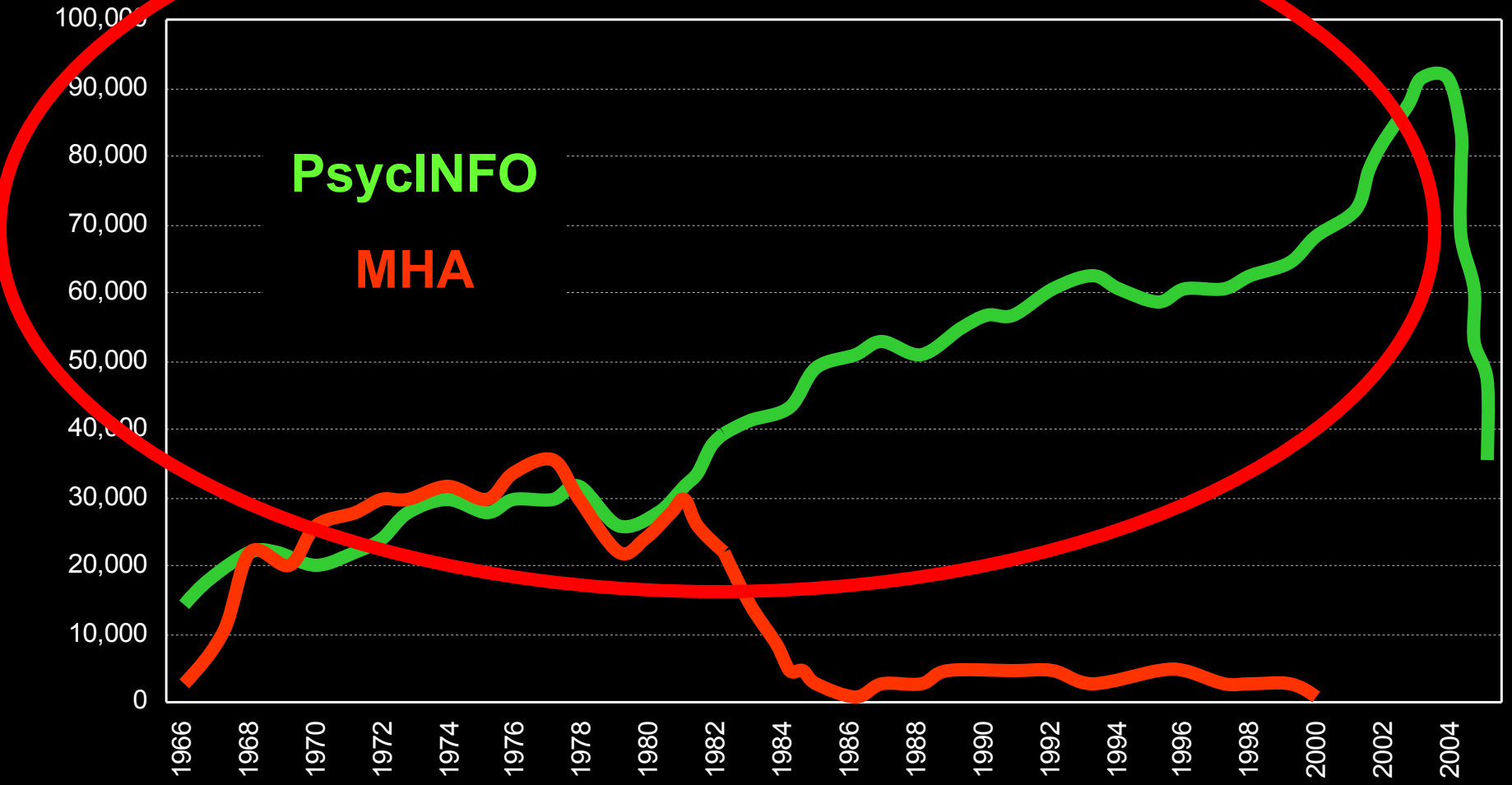


Yao Ming

Thai boxer

Jacso

The fate of two databases (as of Sept 2005) PRAGA



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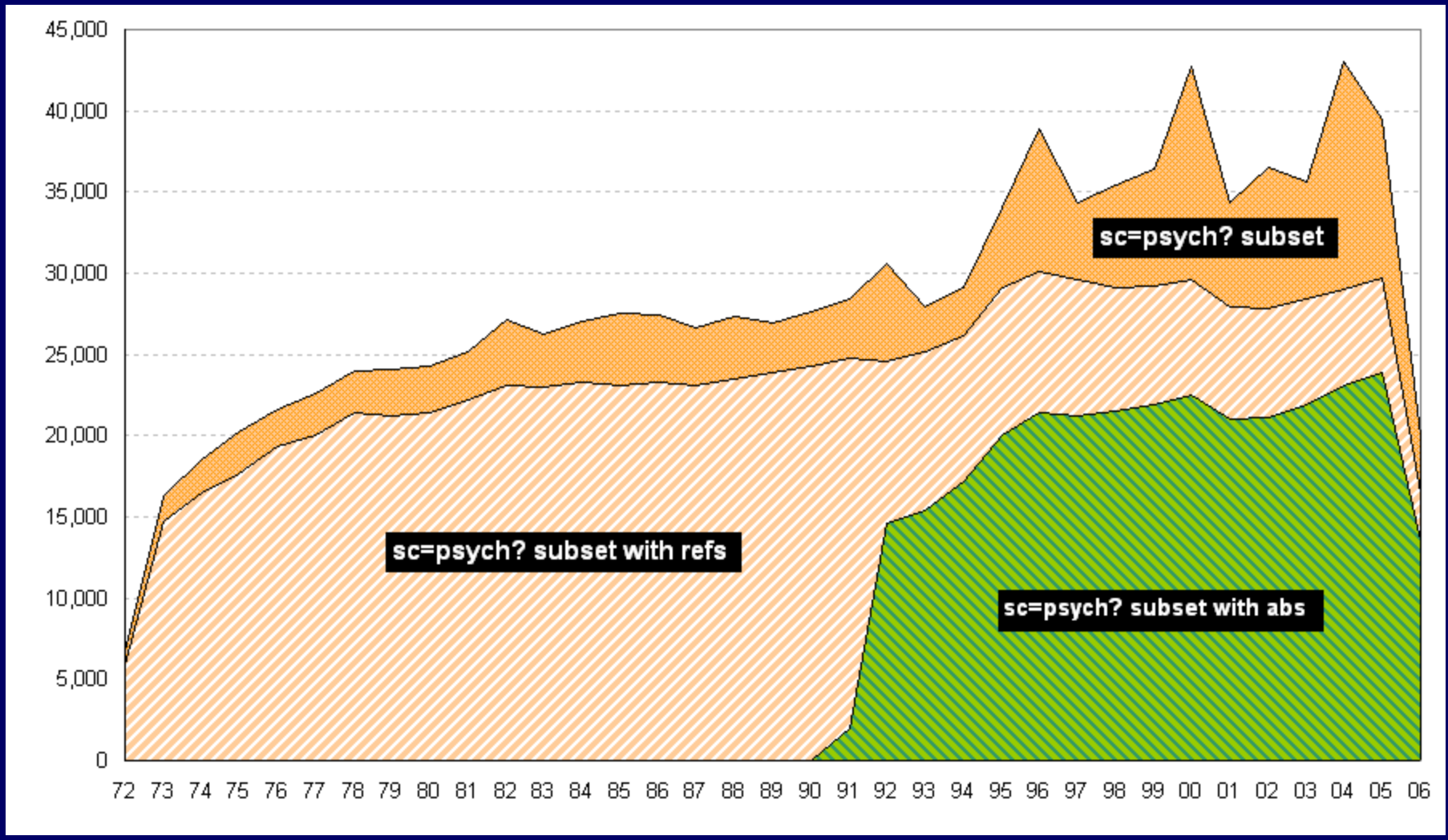
ISI SocSCI psychology/psychiatry subset



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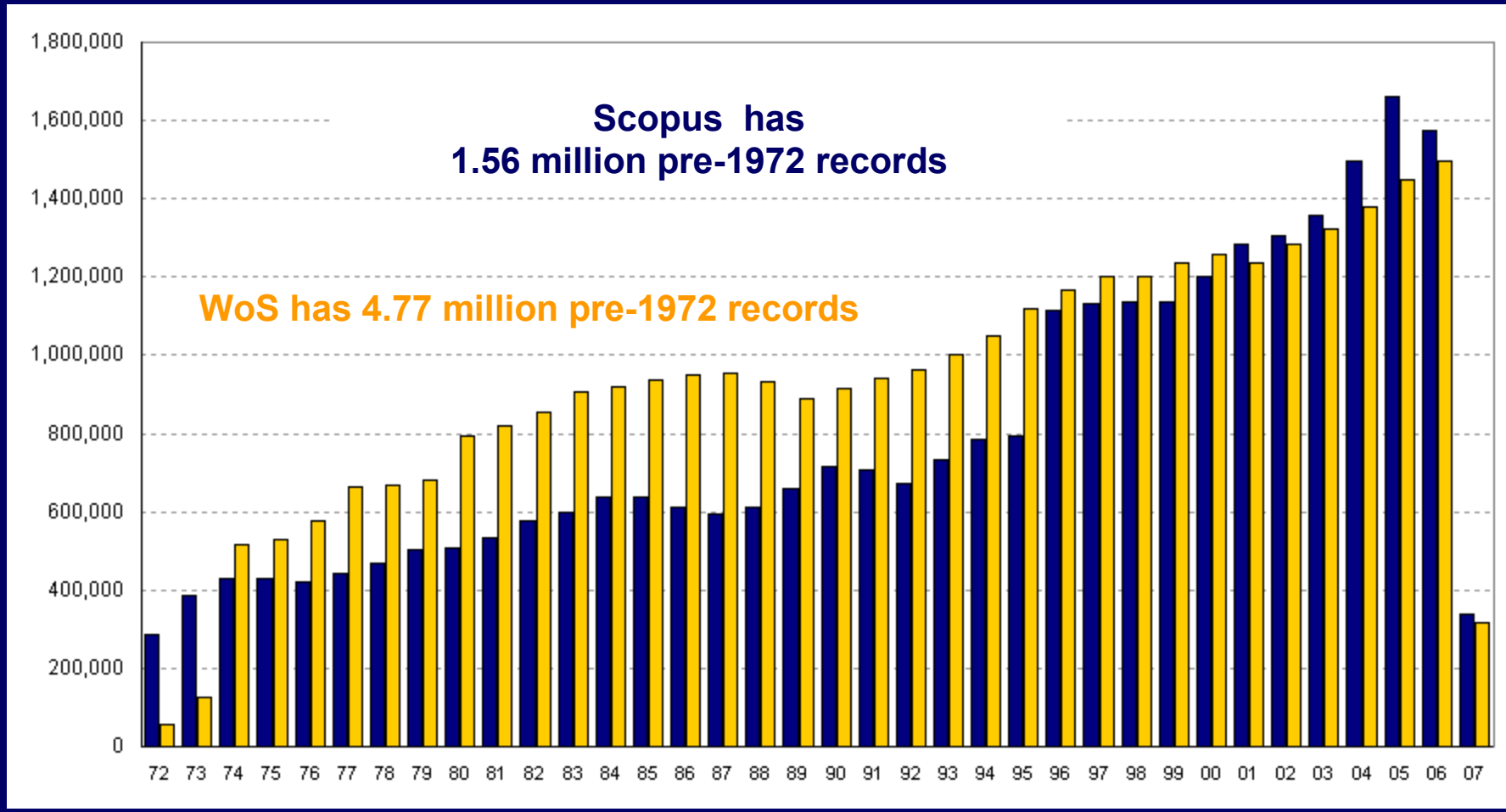
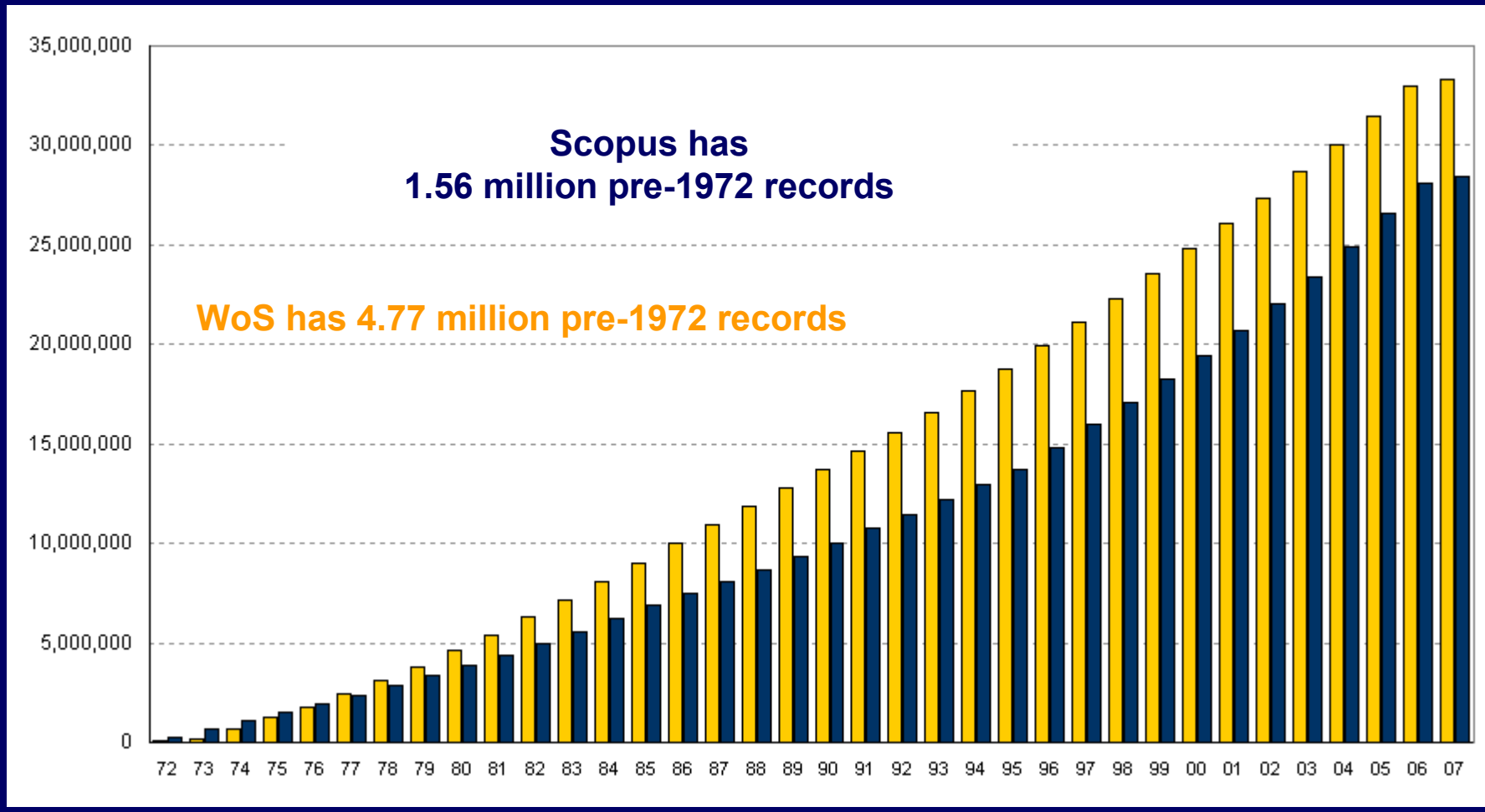
Scopus & WoS
1972 – May, 2007

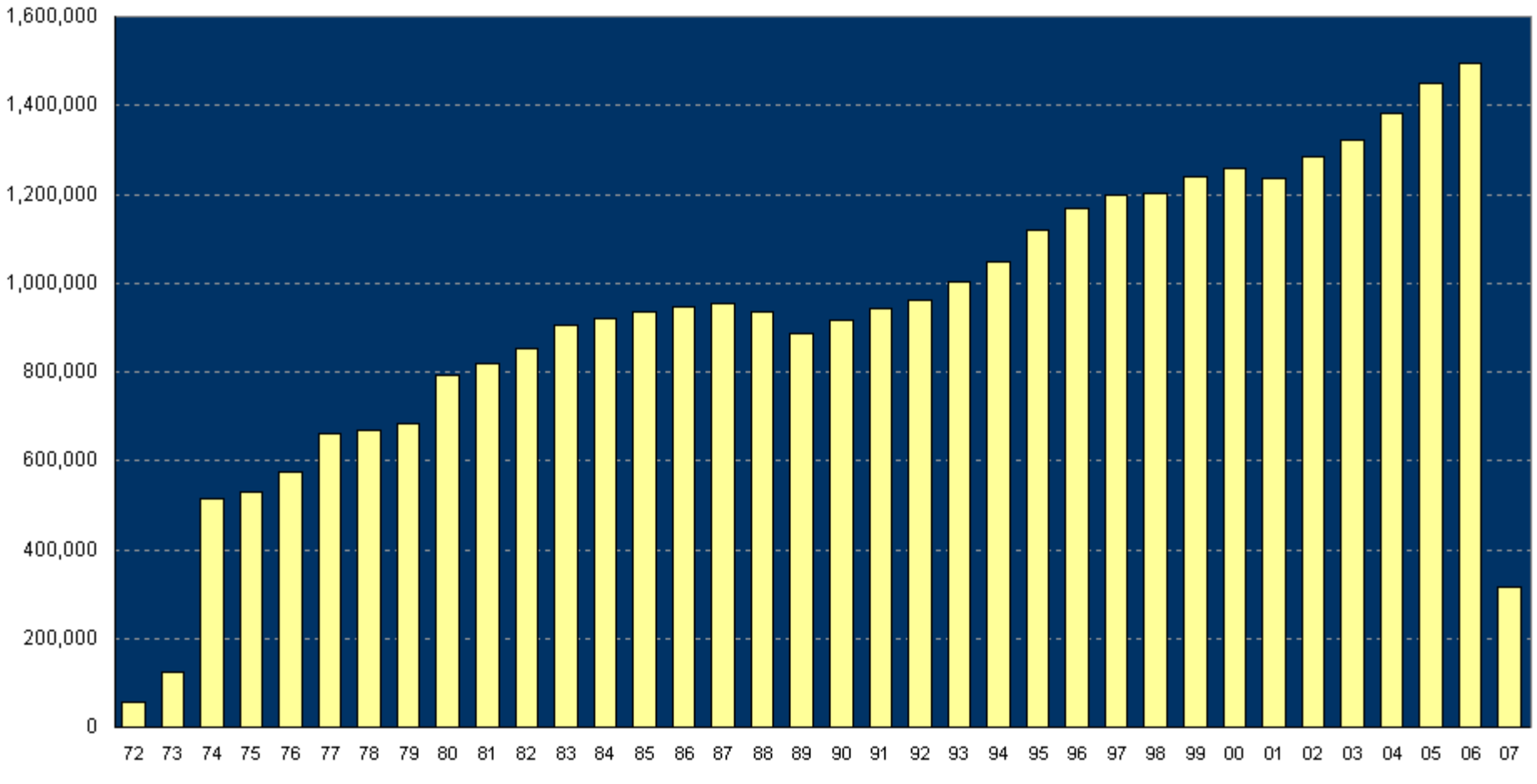


Scopus & WoS cumulative
1972 - May, 2007



WoS

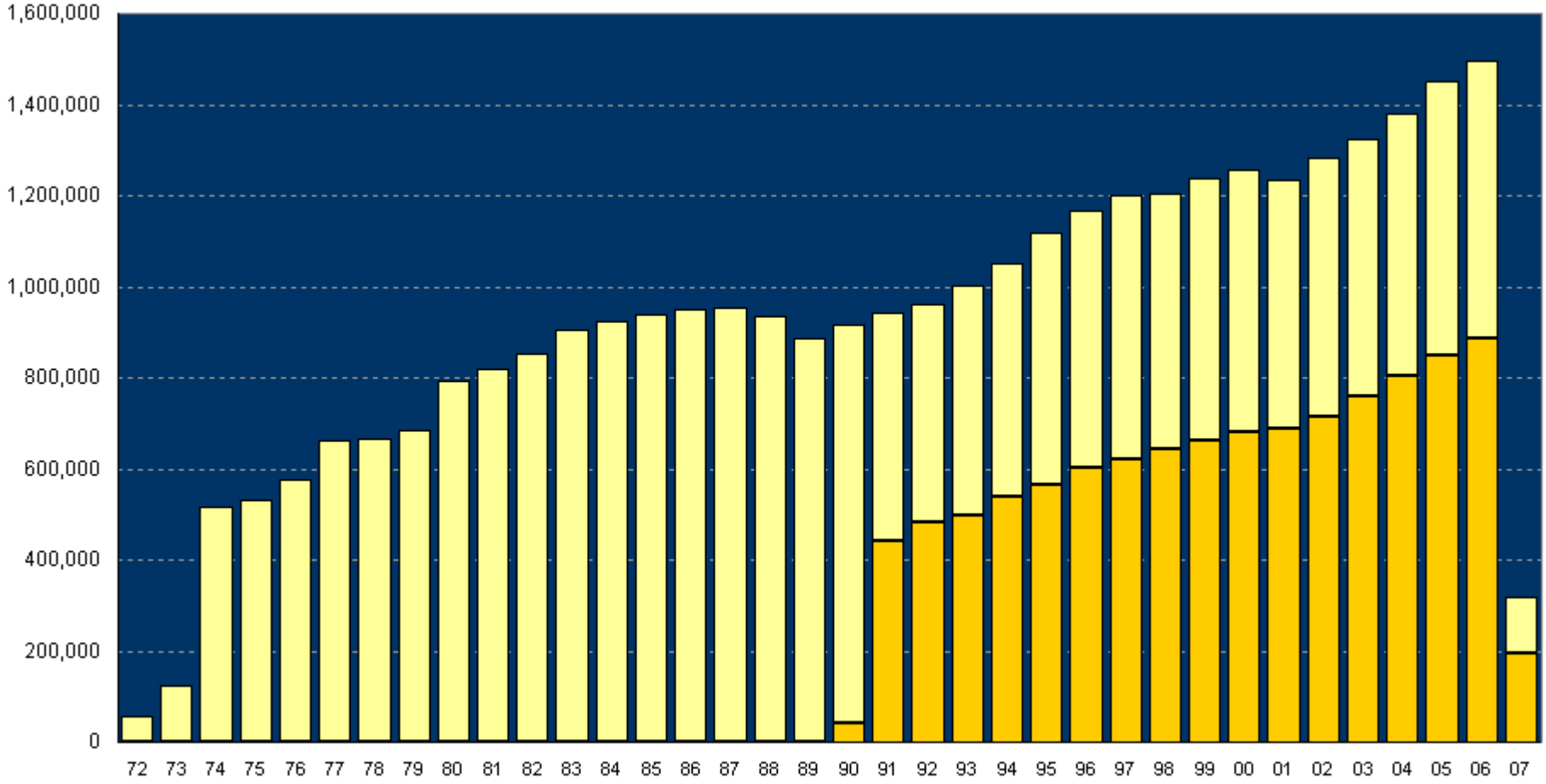
WoS 1972 - May, 2007
yearly additions



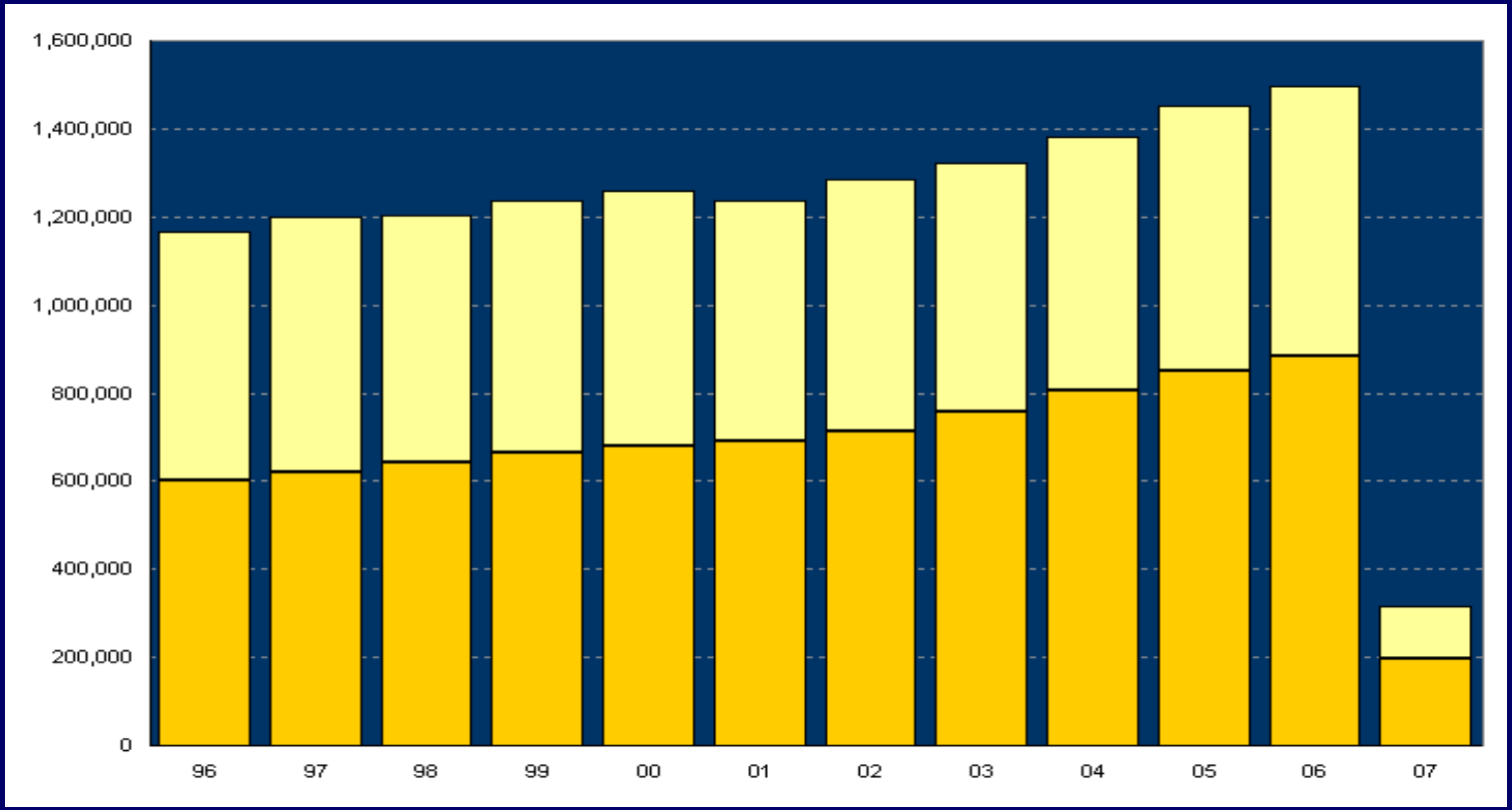
15. Wos-file7.../overall

Jacso

WoS with abs
1972 – May, 2007



WoS with abs
1996 – May, 2007 yearly additions

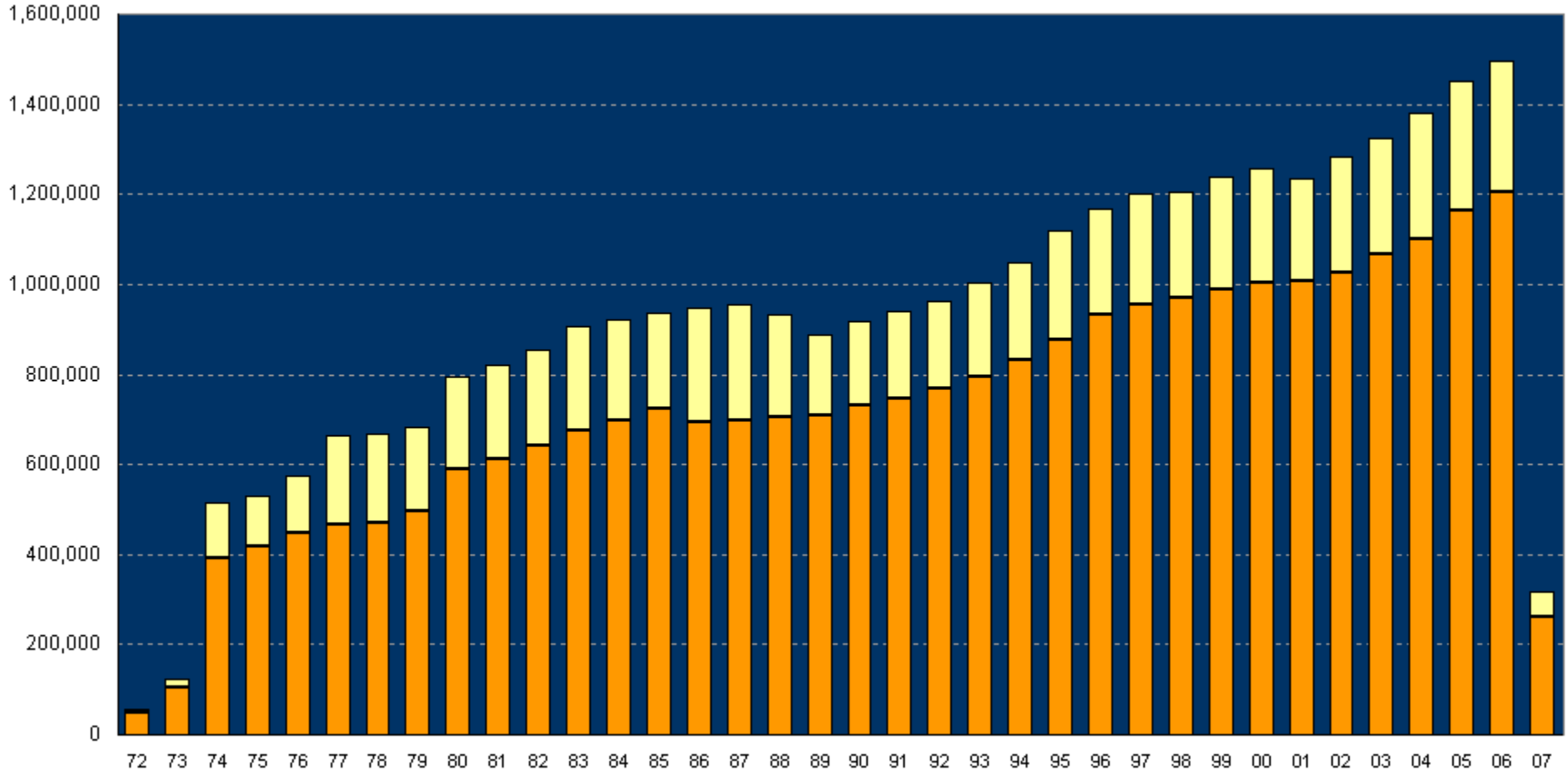


66-65. Wos-file7.../abs

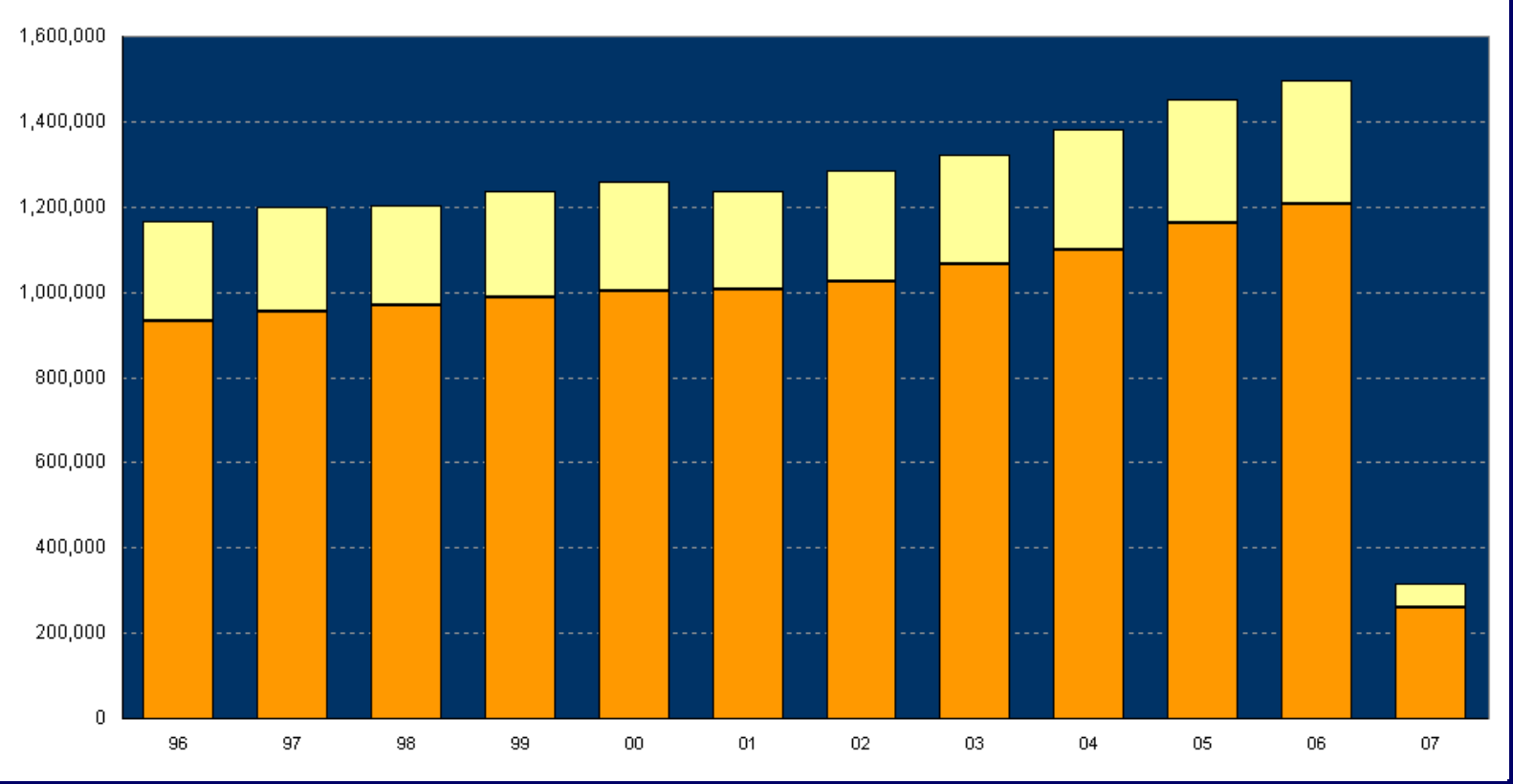
Jacso

WoS with refs

WoS with refs
1972 – May, 2007



WoS with refs
1996 – May, 2007

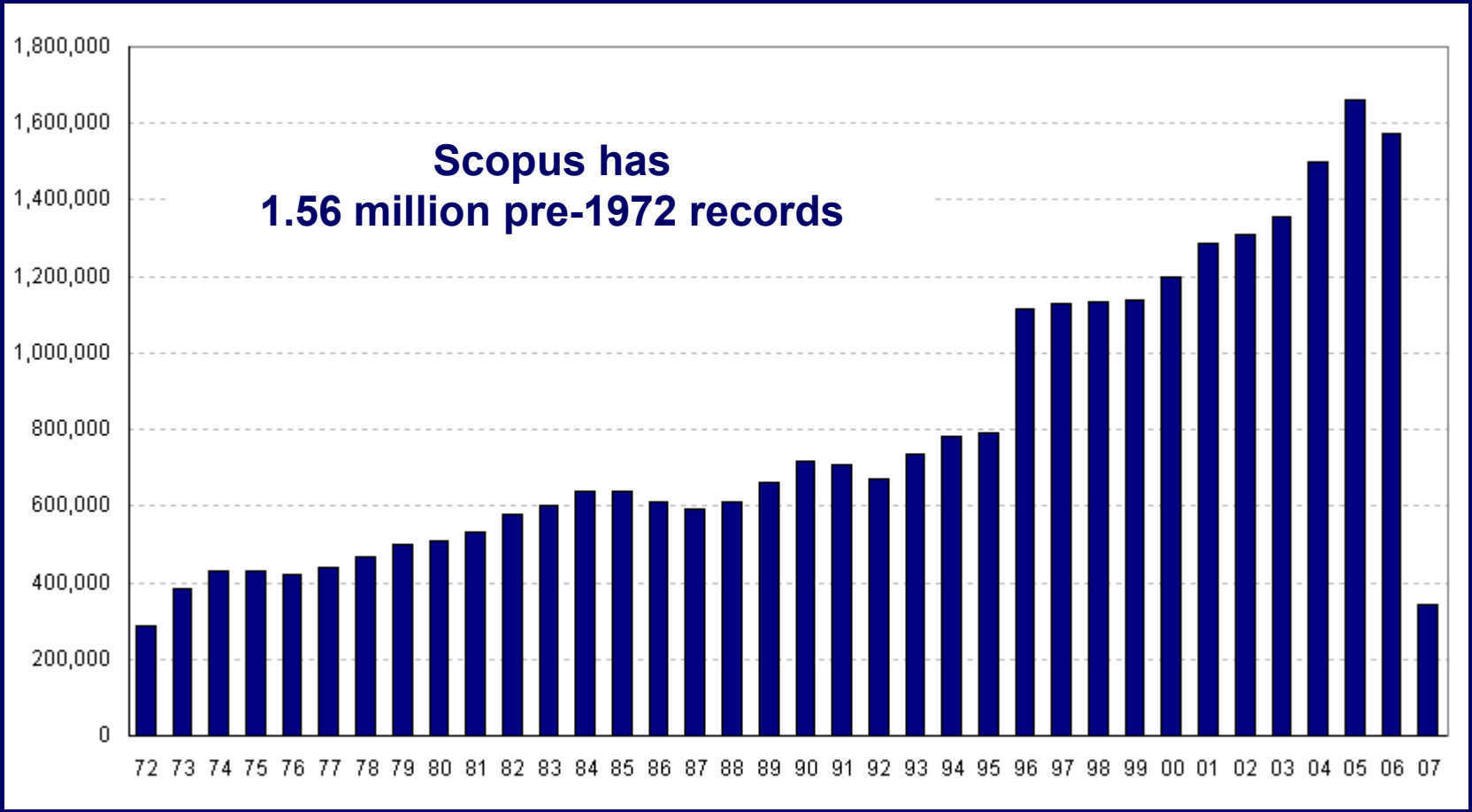


72-71. Wos-file7.../refs

Jacso

Scopus

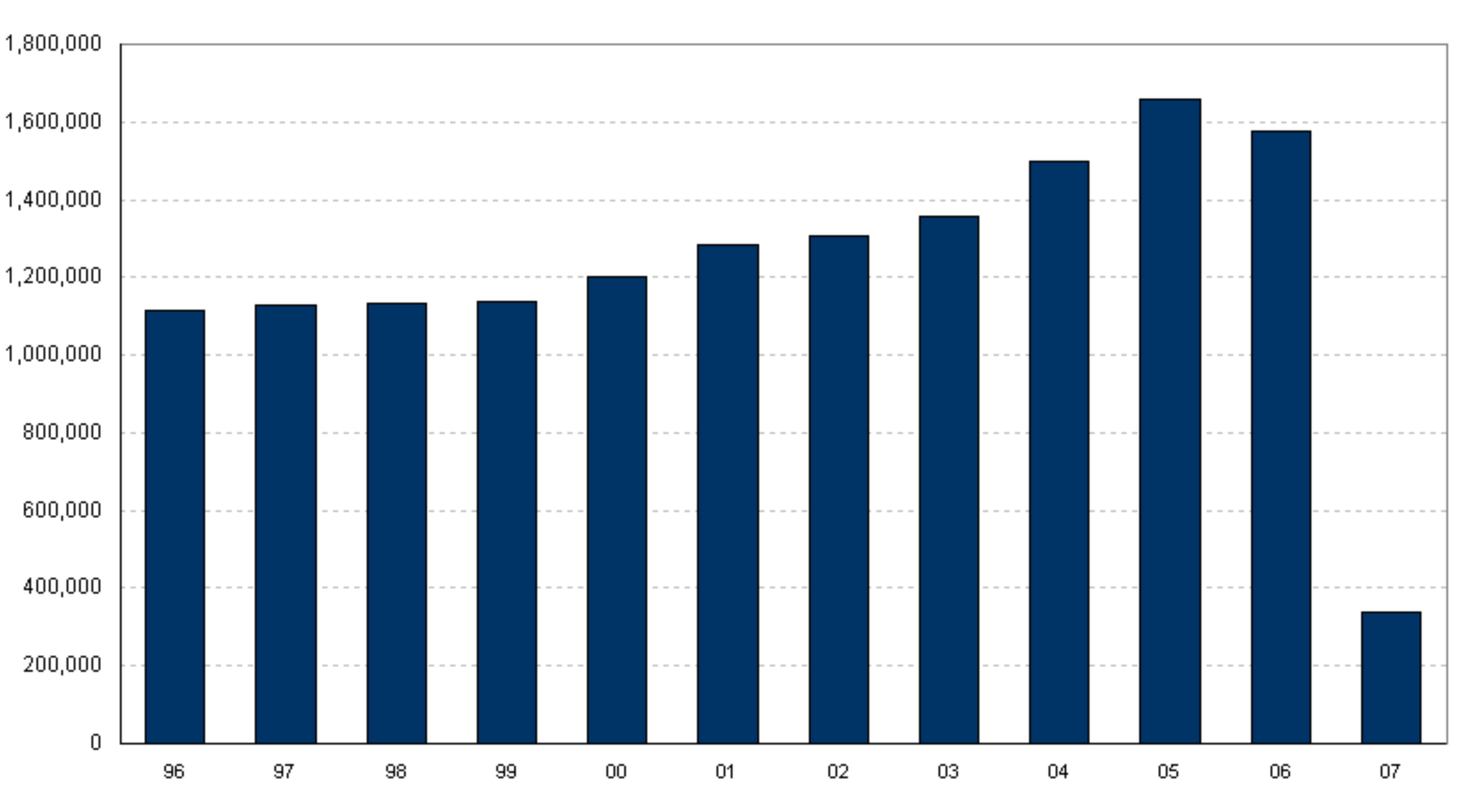
Scopus
1972 – May, 2007



6. Scopus-profile-may-1-2007/py

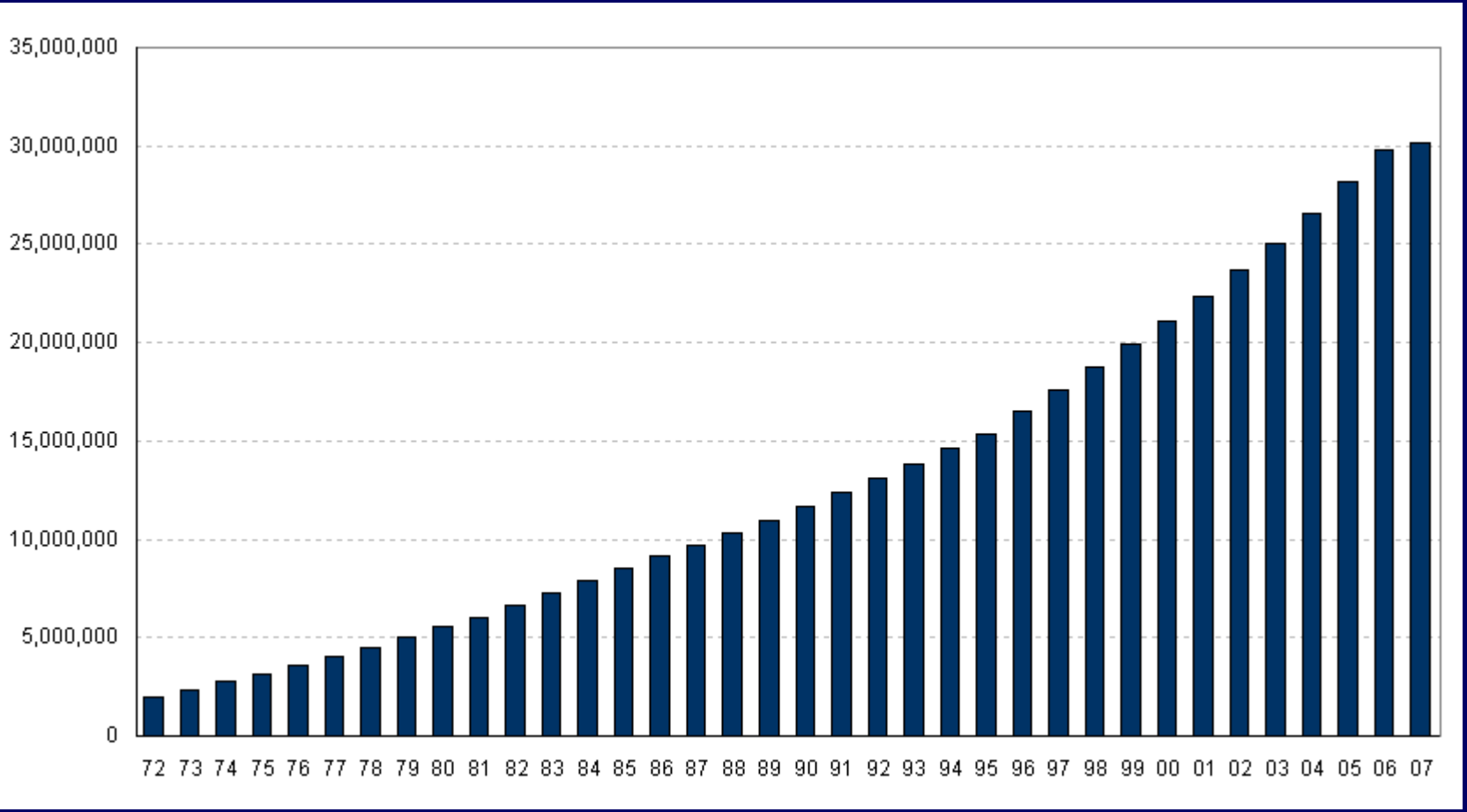
Jacso

Scopus 1996 – May, 2007 yearly additions



74. Scopus-profile-may-1-2007/yr

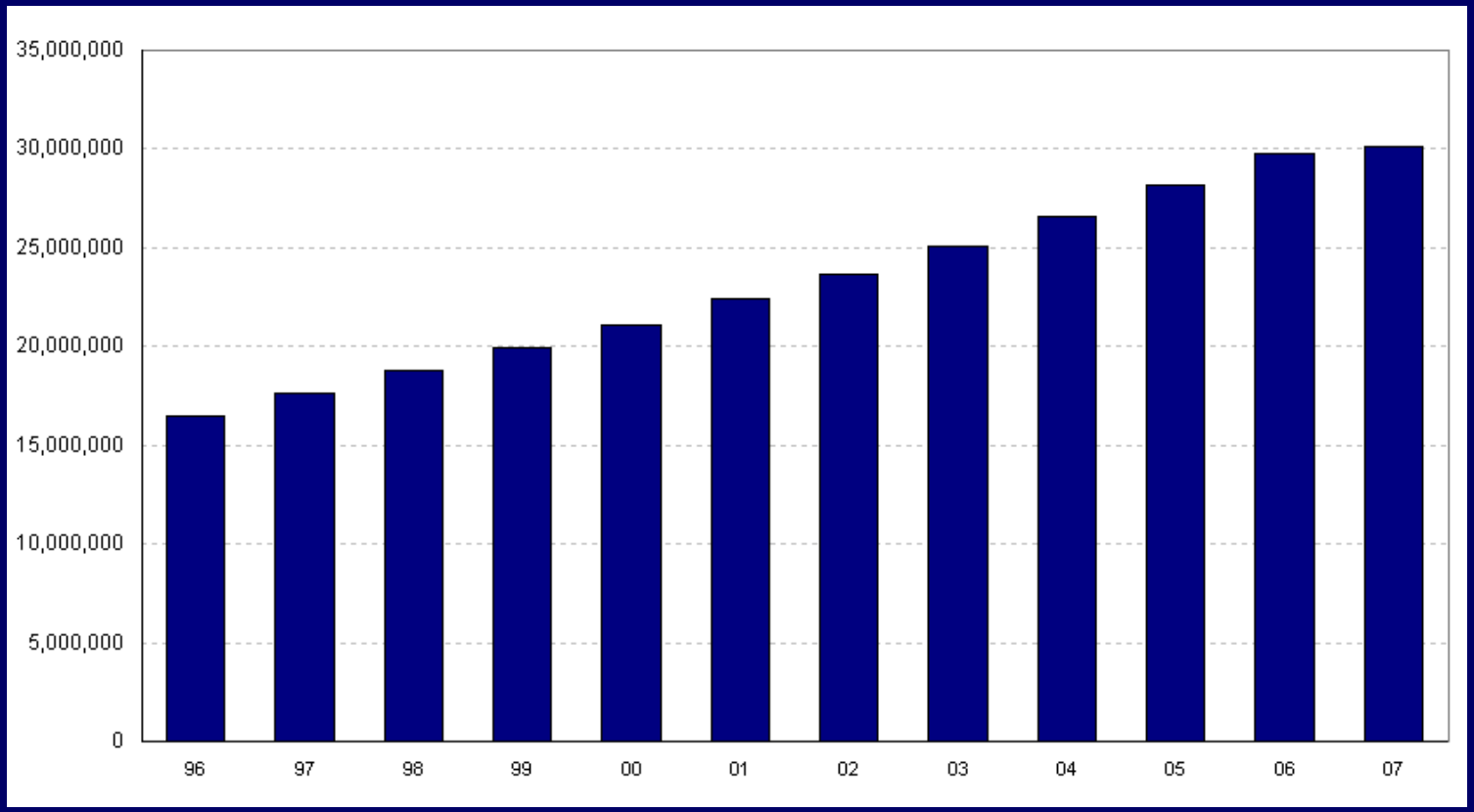
Scopus cumulative
1972 – May, 2007



30. Scopus-profile-may-1-2007/py

Jacso

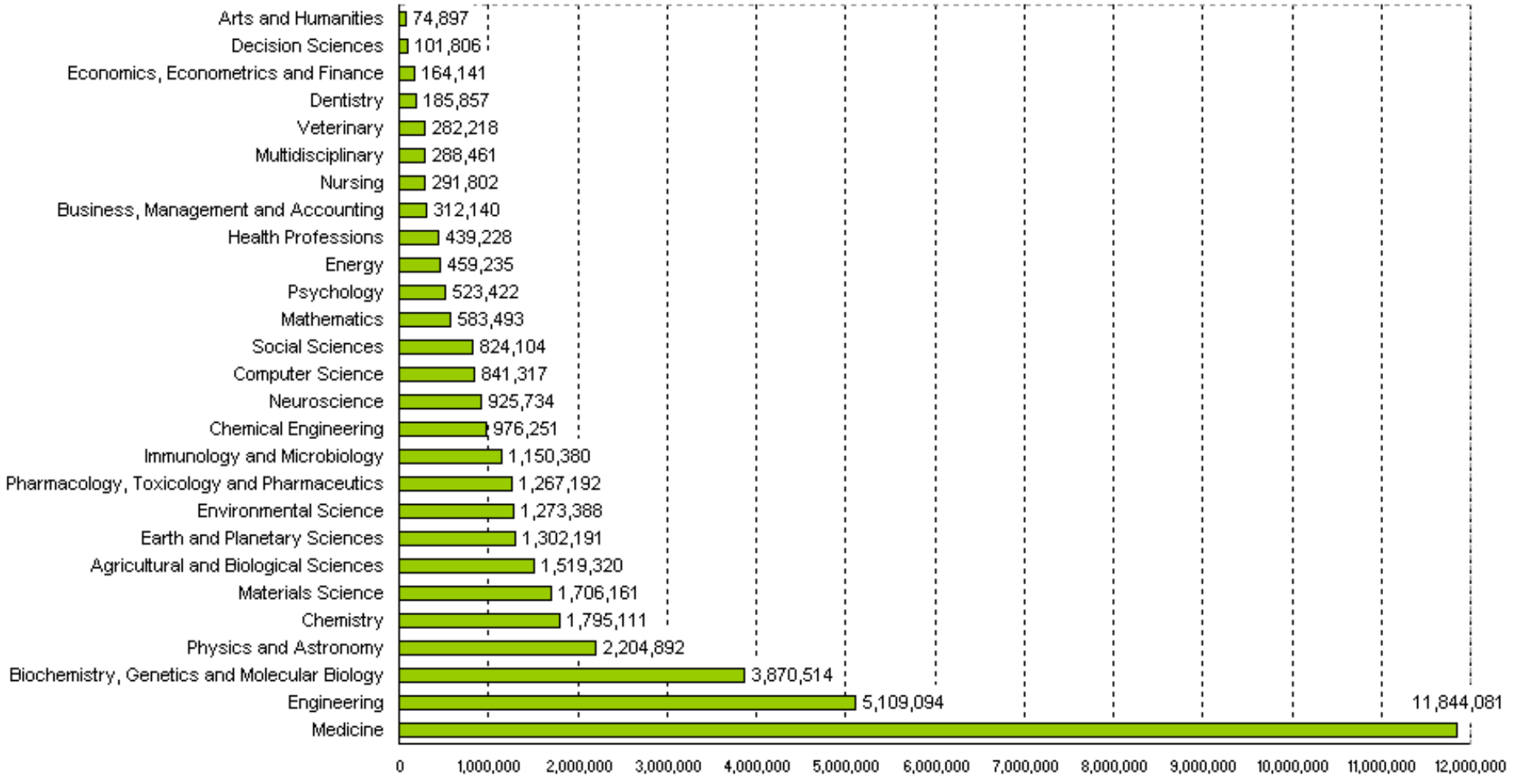
Scopus cumulative
1996 – May, 2007



50-Scopus-profile-may-1-2007/py

Jacso

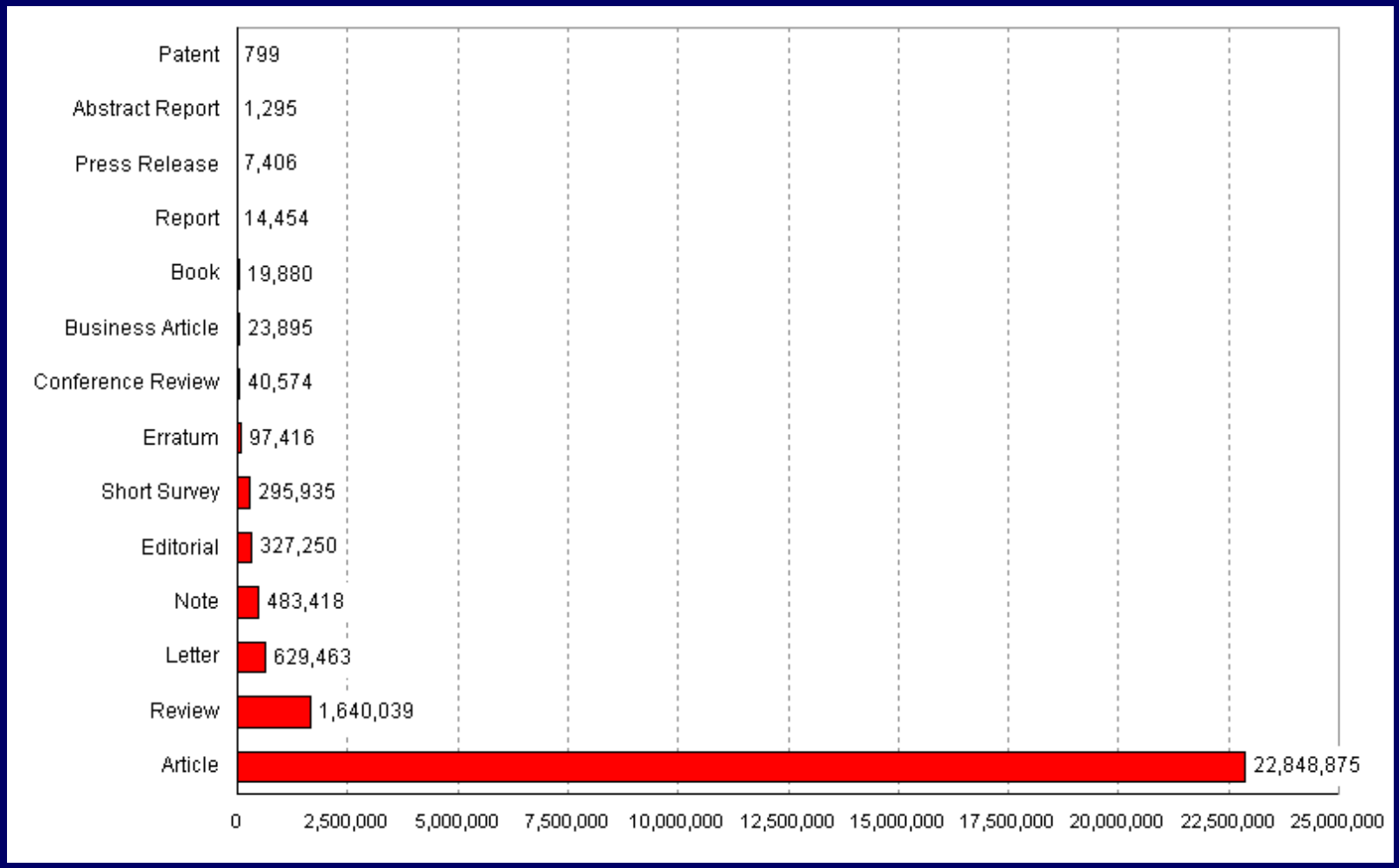
Scopus all - subject as of May, 2007



183-a. Scopus-profile-may-1-2007/subject

Jacso

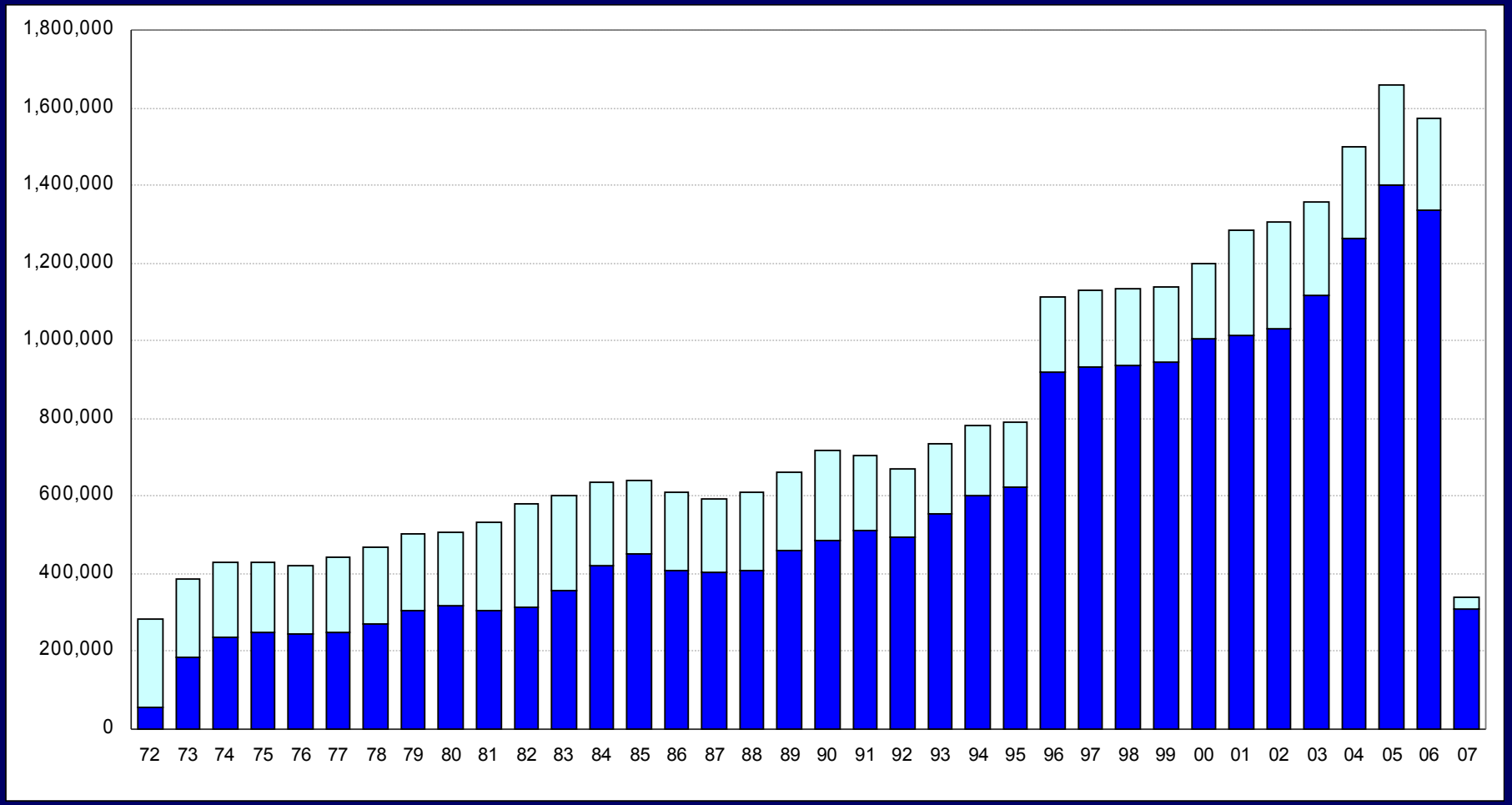
Scopus all – doc type as of May, 2007



2. Scopus-profile-may-1-2007/doc

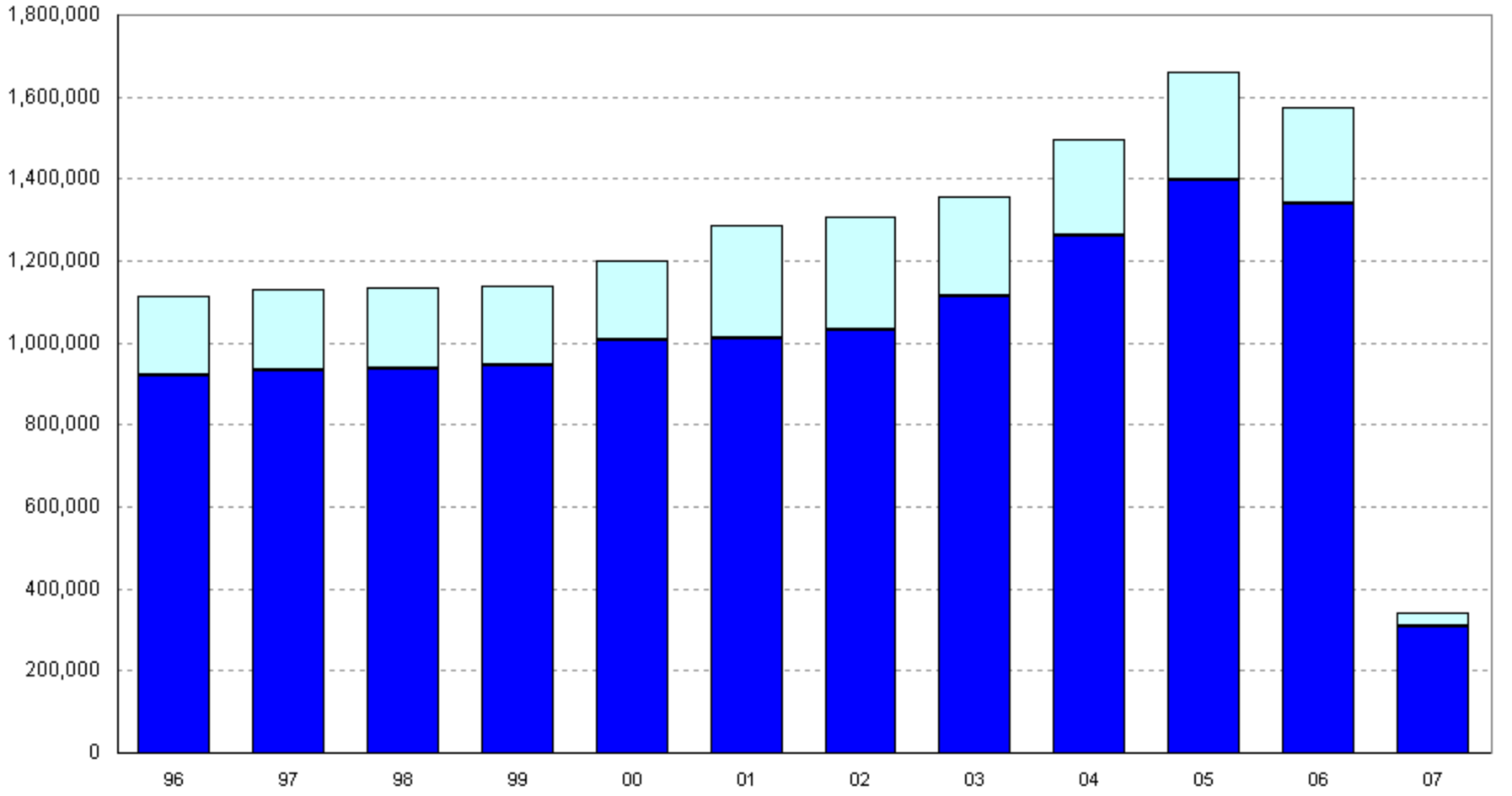
Scopus with abs

Scopus with abs
1972 – May, 2007



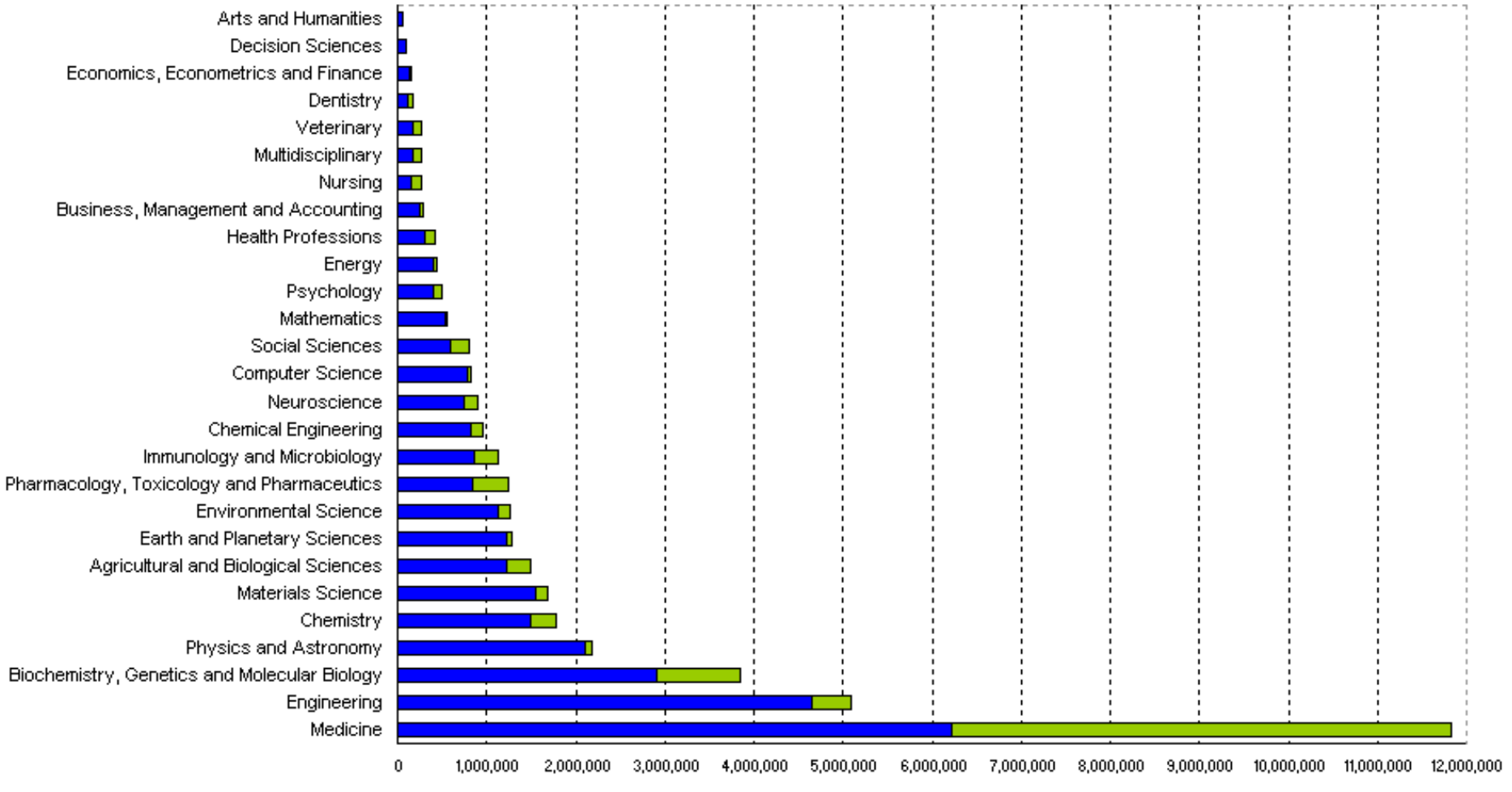
26-48. Scopus-profile-may-1-2007/ab-pyl

Scopus with abs
1996 – May, 2007



75-76. Scopus-profile-may-1-2007/ab-py

Scopus with abs – subject

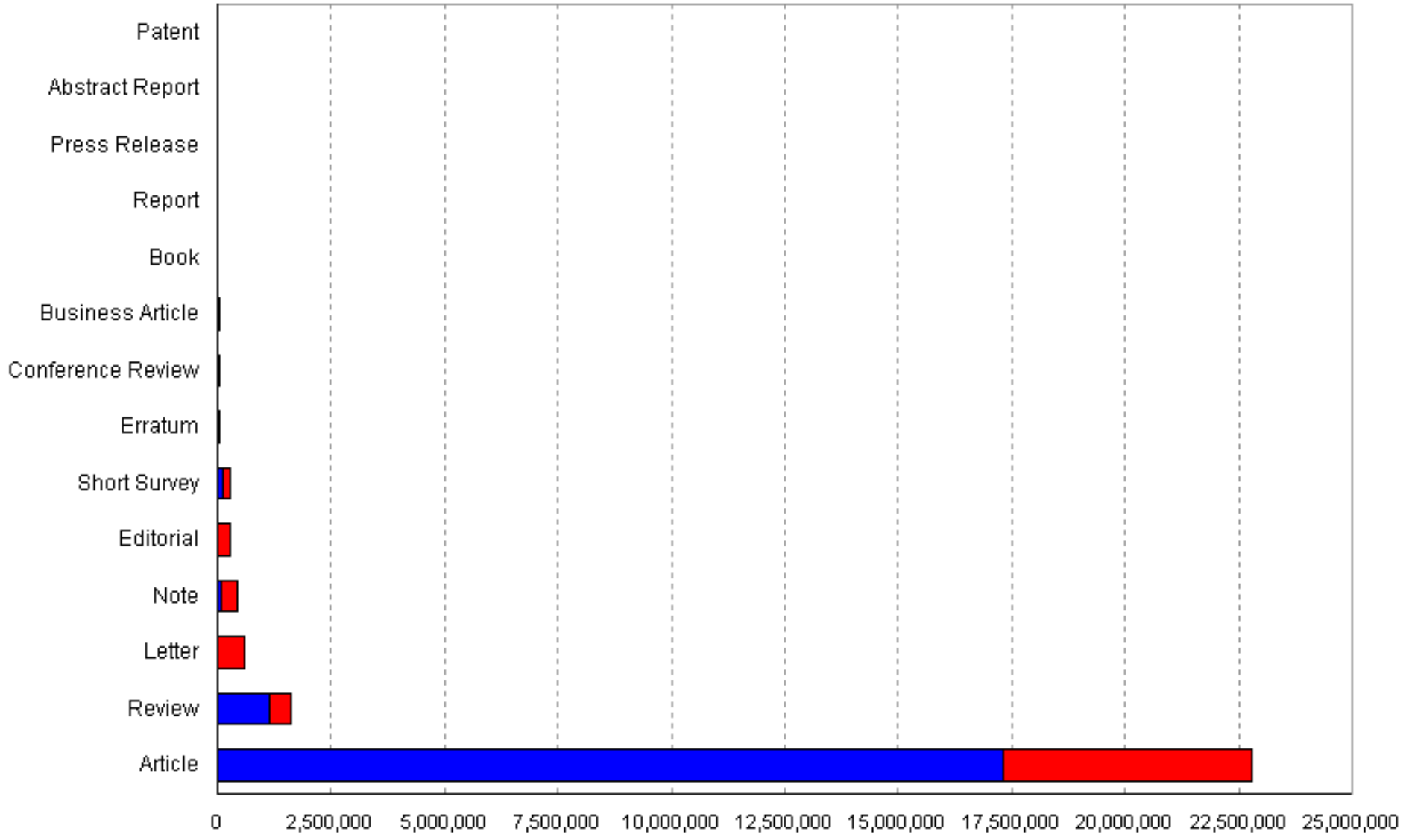


1.3 subject categories are assigned/record

183a – 184a. Scopus-profile-may-1-2007/sub

Jacso

Scopus with abs – doc type

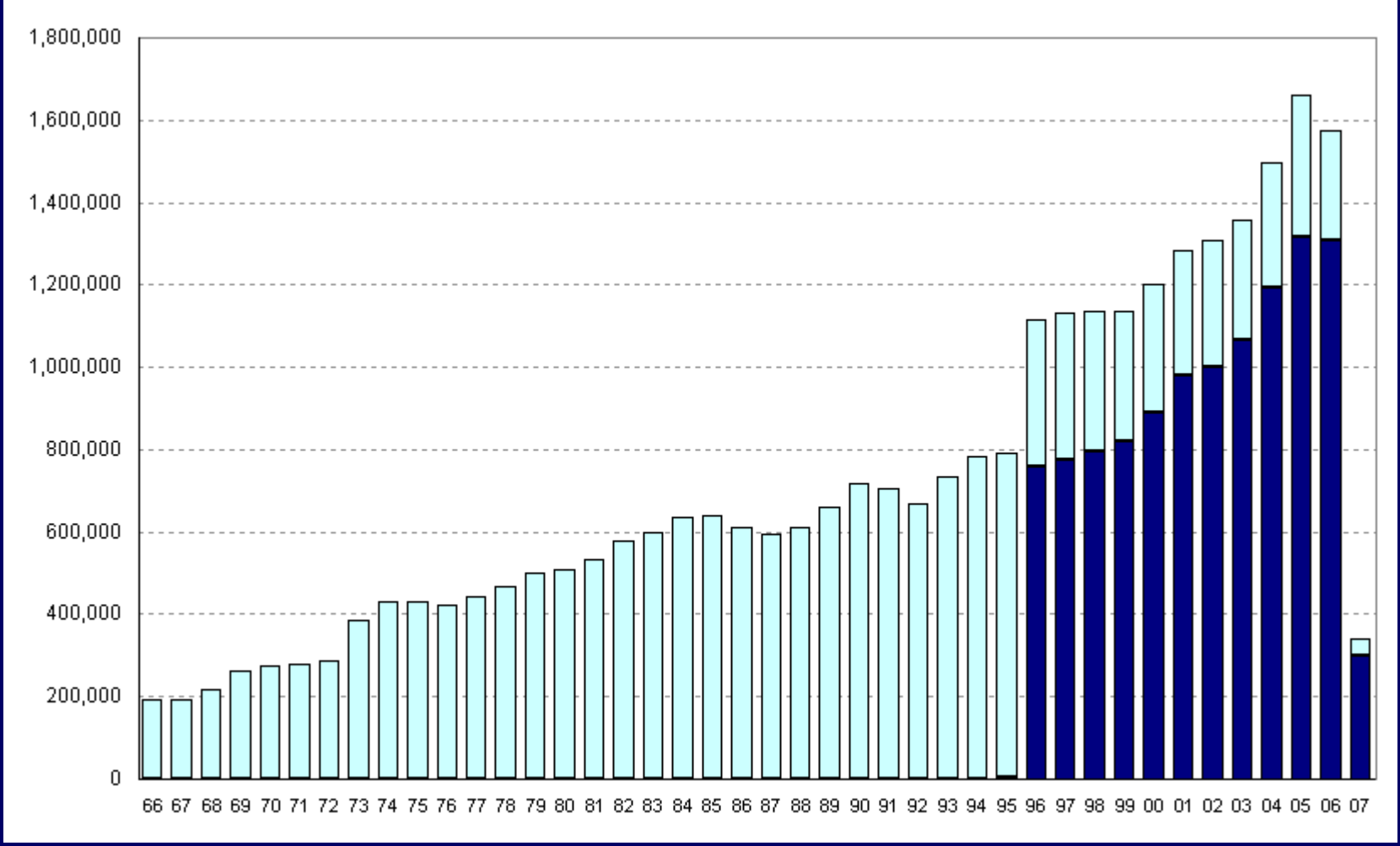


30, 229,563 all records - 87% has doc type

26,130,699 records with dt – 18,724,703 has abs 71%

Scopus with refs

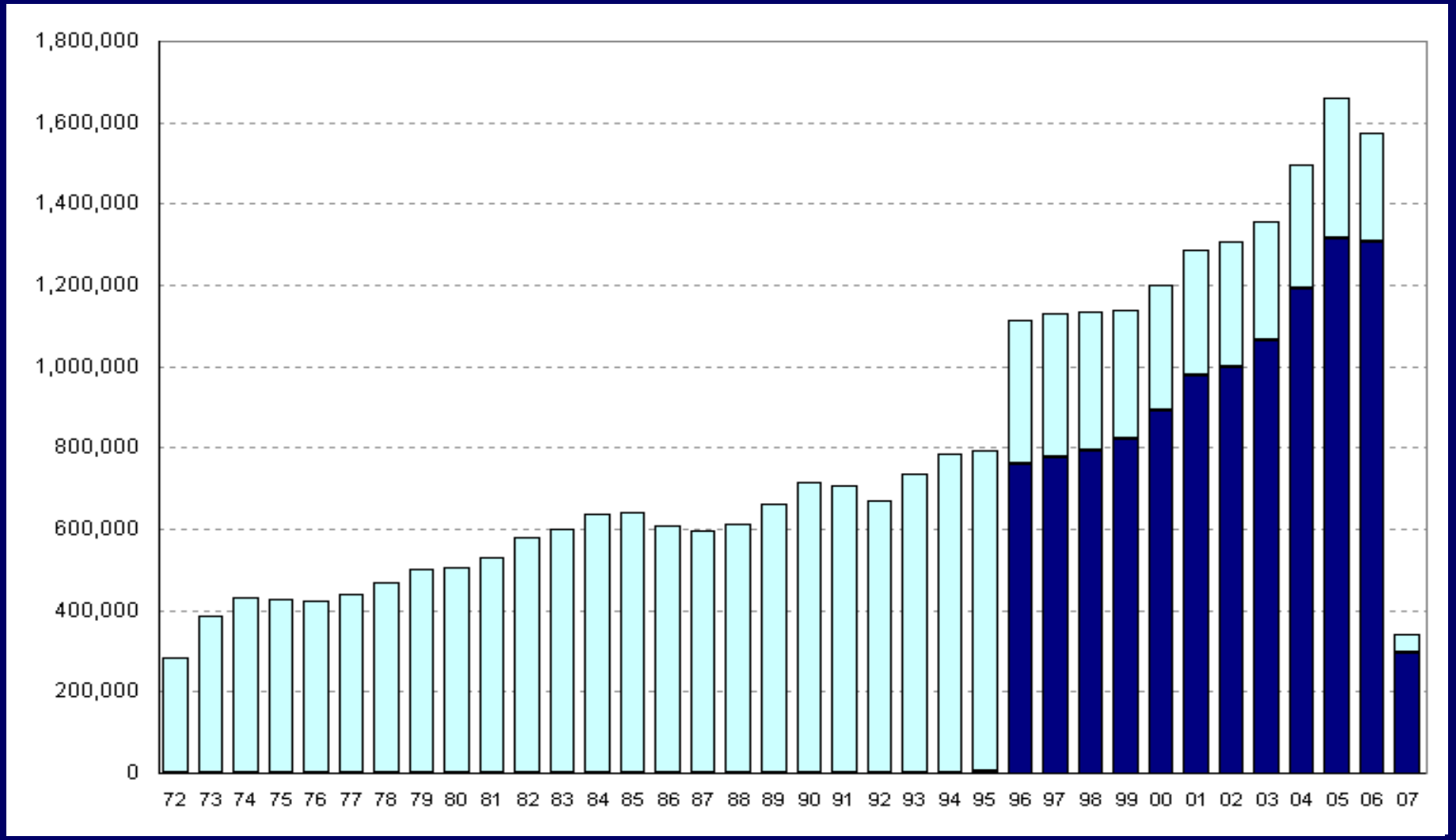
Scopus with refs
1966 – May, 2007



53-54. Scopus-profile-may-1-2007/cr-py

Jacso

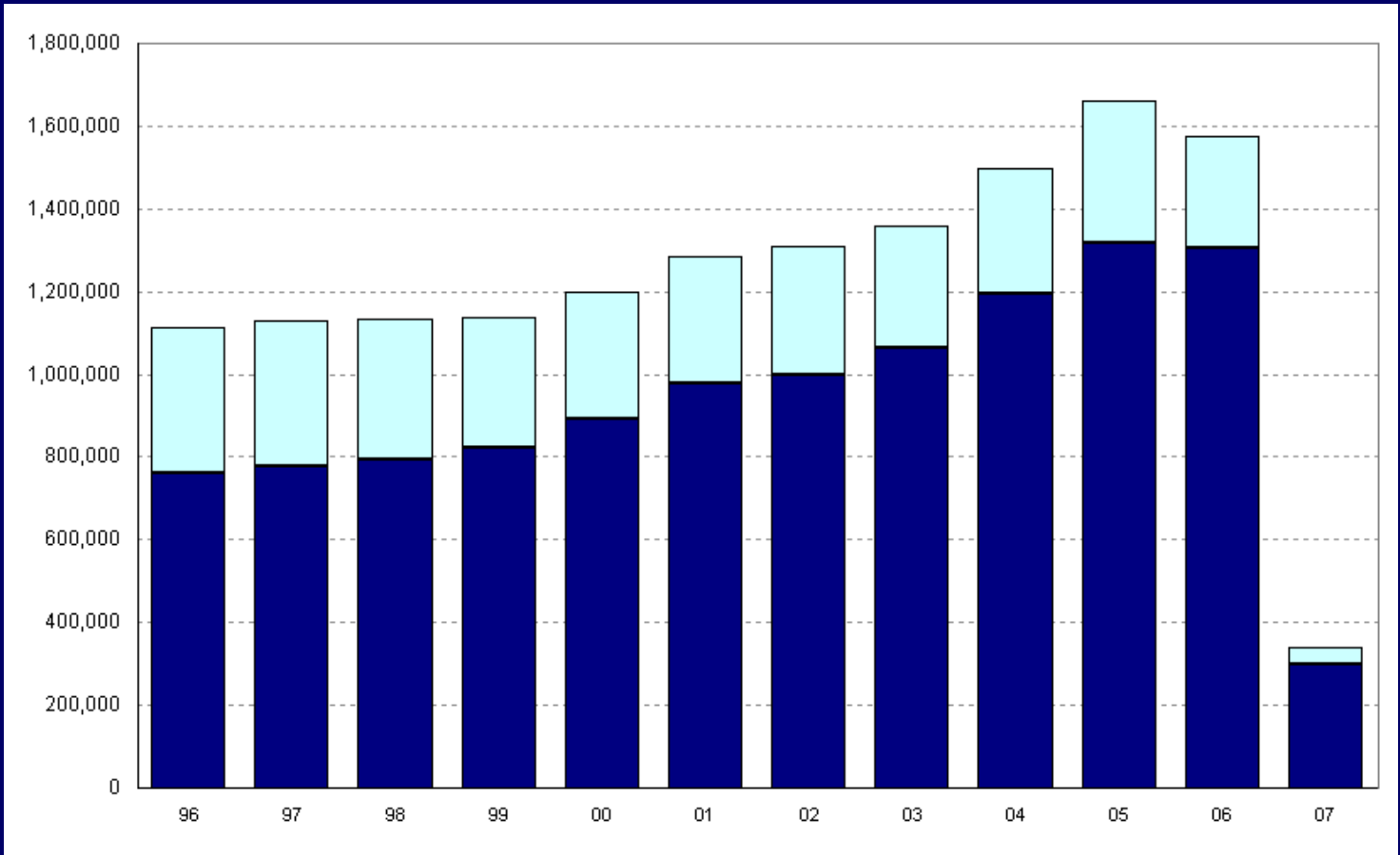
Scopus with refs
1972 – May, 2007



26-25. Scopus-profile-may-1-2007/cr-py

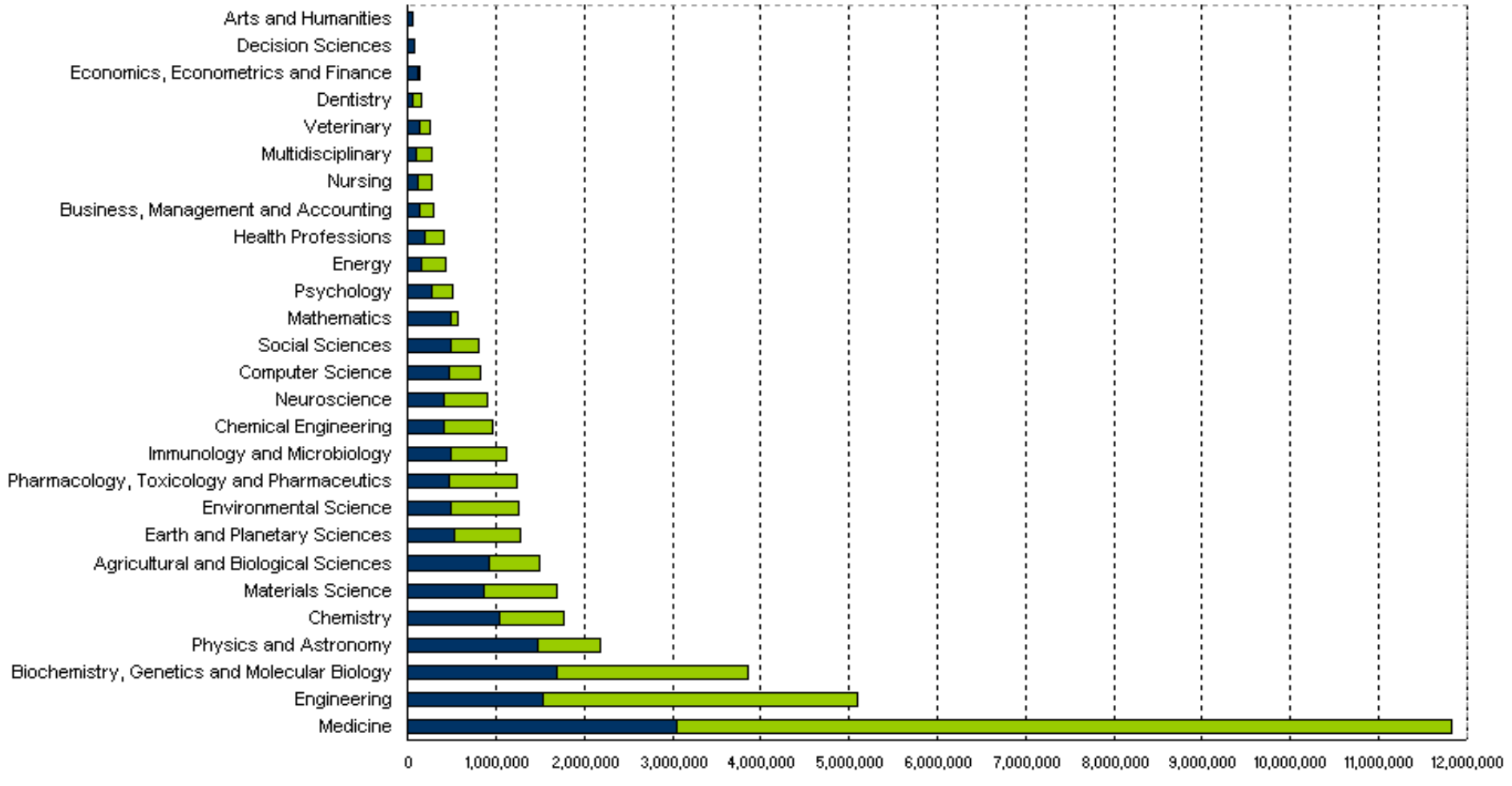
Jacso

Scopus with refs
1996 – May, 2007

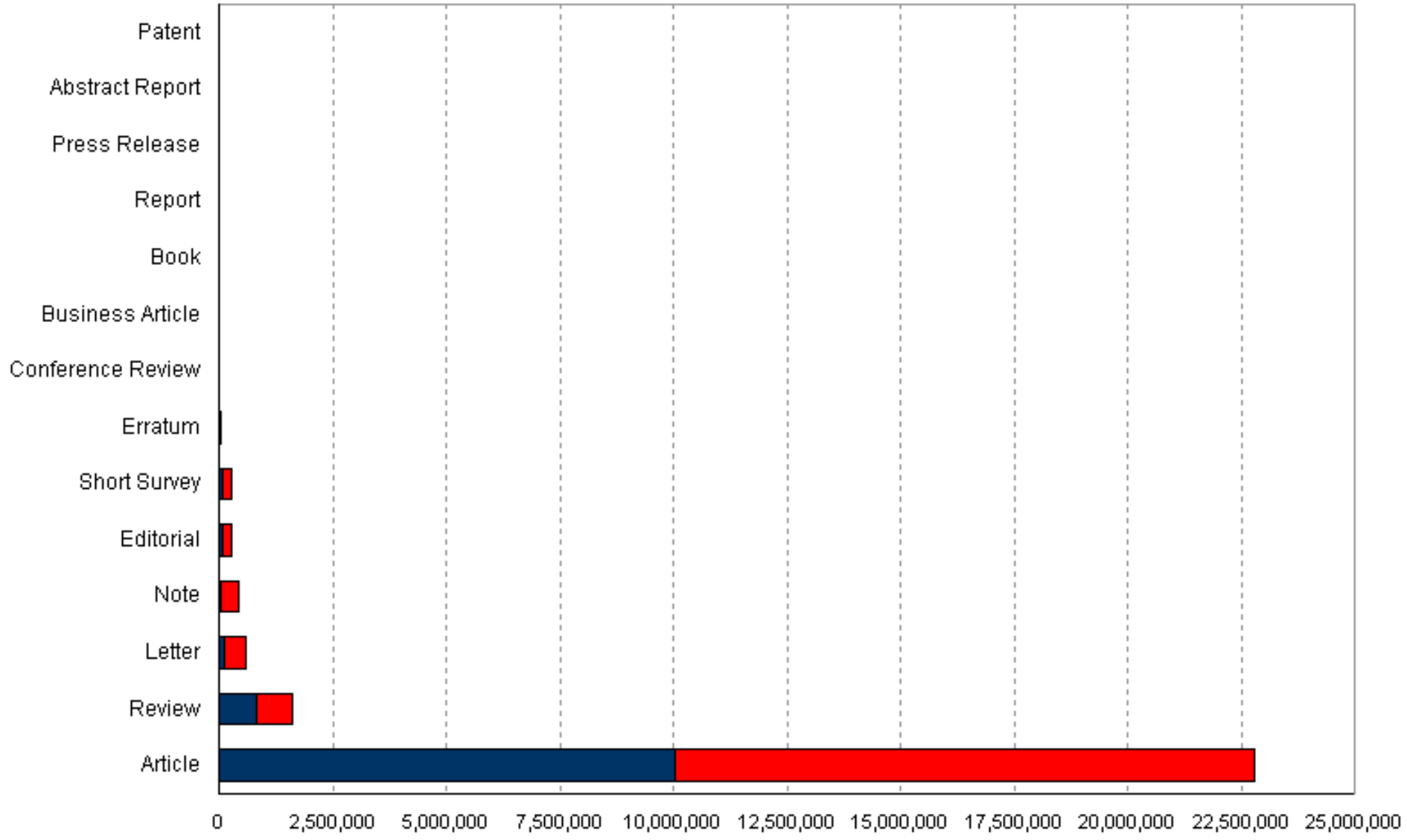


55-56. Scopus-profile-may-1-2007/cr-py

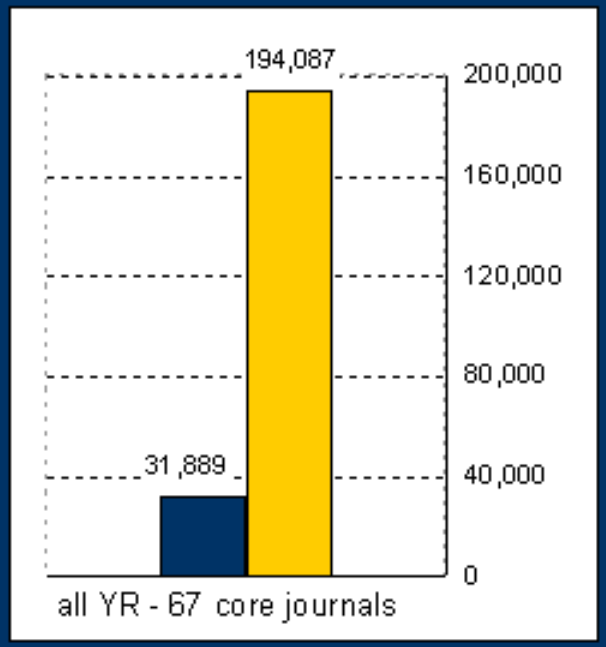
Scopus with refs – subject as of May, 2007

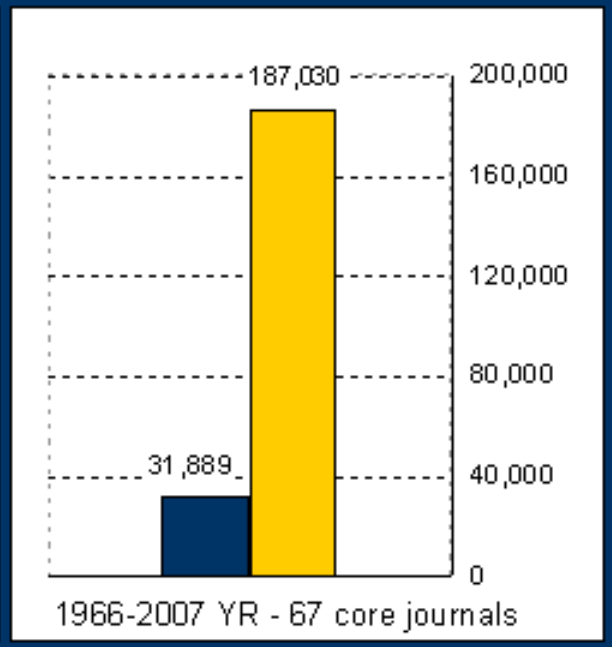


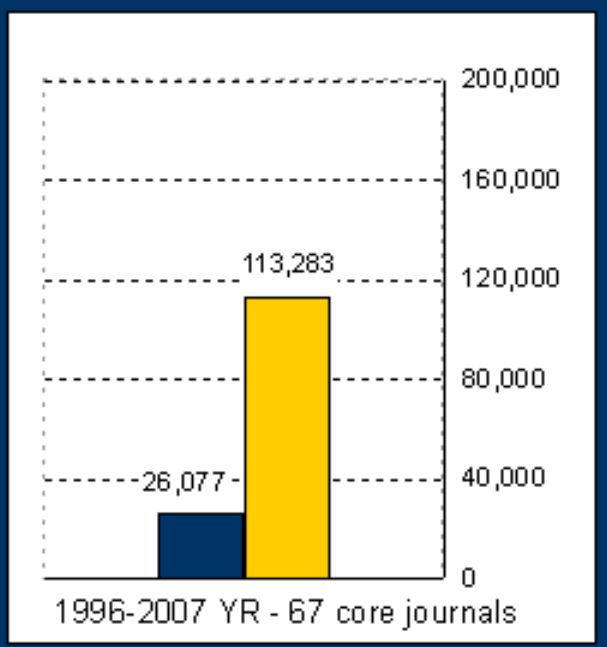
Scopus with refs – doc type as of May, 2007

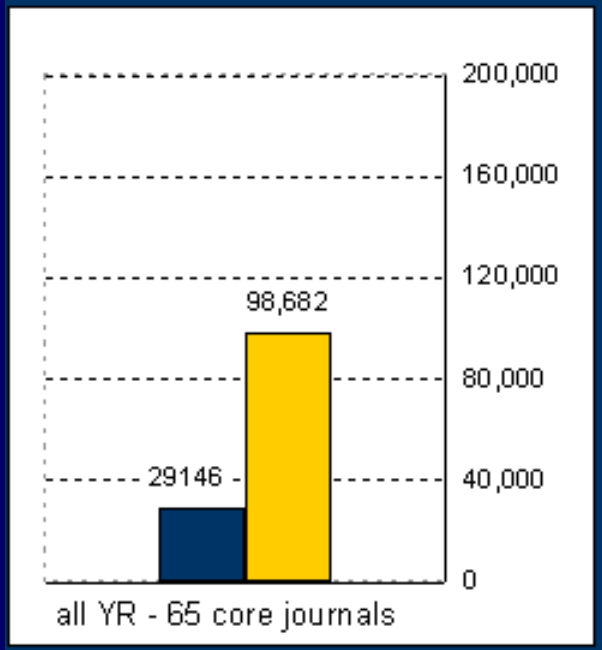


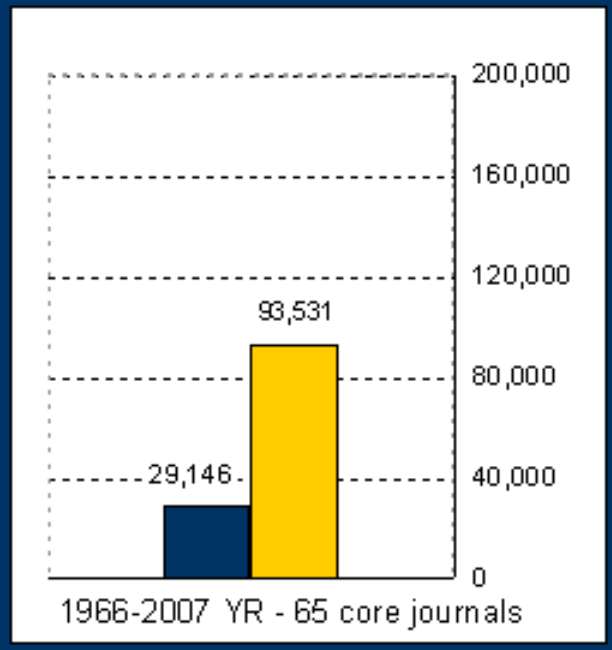
LIS core journals

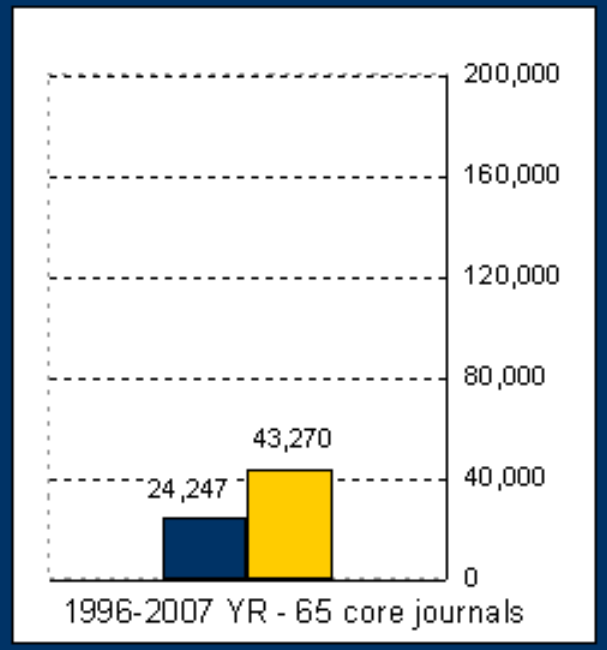

194,087
200,000
160,000
120,000
80,000
40,000
0
31,889
all YR - 67 core journals


187,030
200,000
160,000
120,000
80,000
40,000
0
31,889
1966-2007 YR - 67 core journals

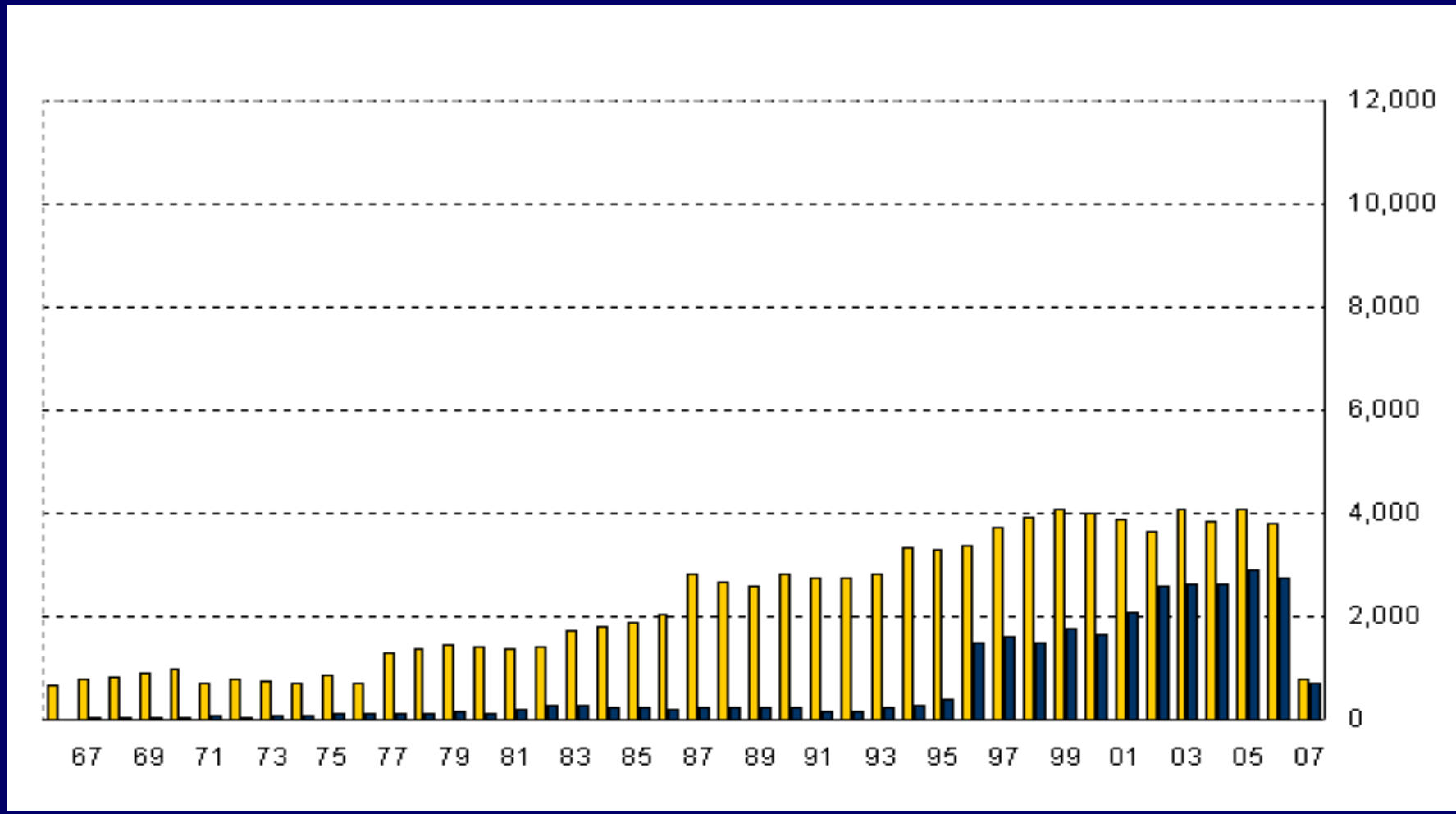

200,000
160,000
113,283
120,000
80,000
40,000
26,077
0
1996-2007 YR - 67 core journals


200,000
160,000
120,000
98,682
80,000
40,000
29146
0
all YR - 65 core journals


200,000
160,000
120,000
93,531
80,000
40,000
29,146
0
1966-2007 YR - 65 core journals


200,000
160,000
120,000
80,000
43,270
40,000
24,247
0
1996-2007 YR - 65 core journals

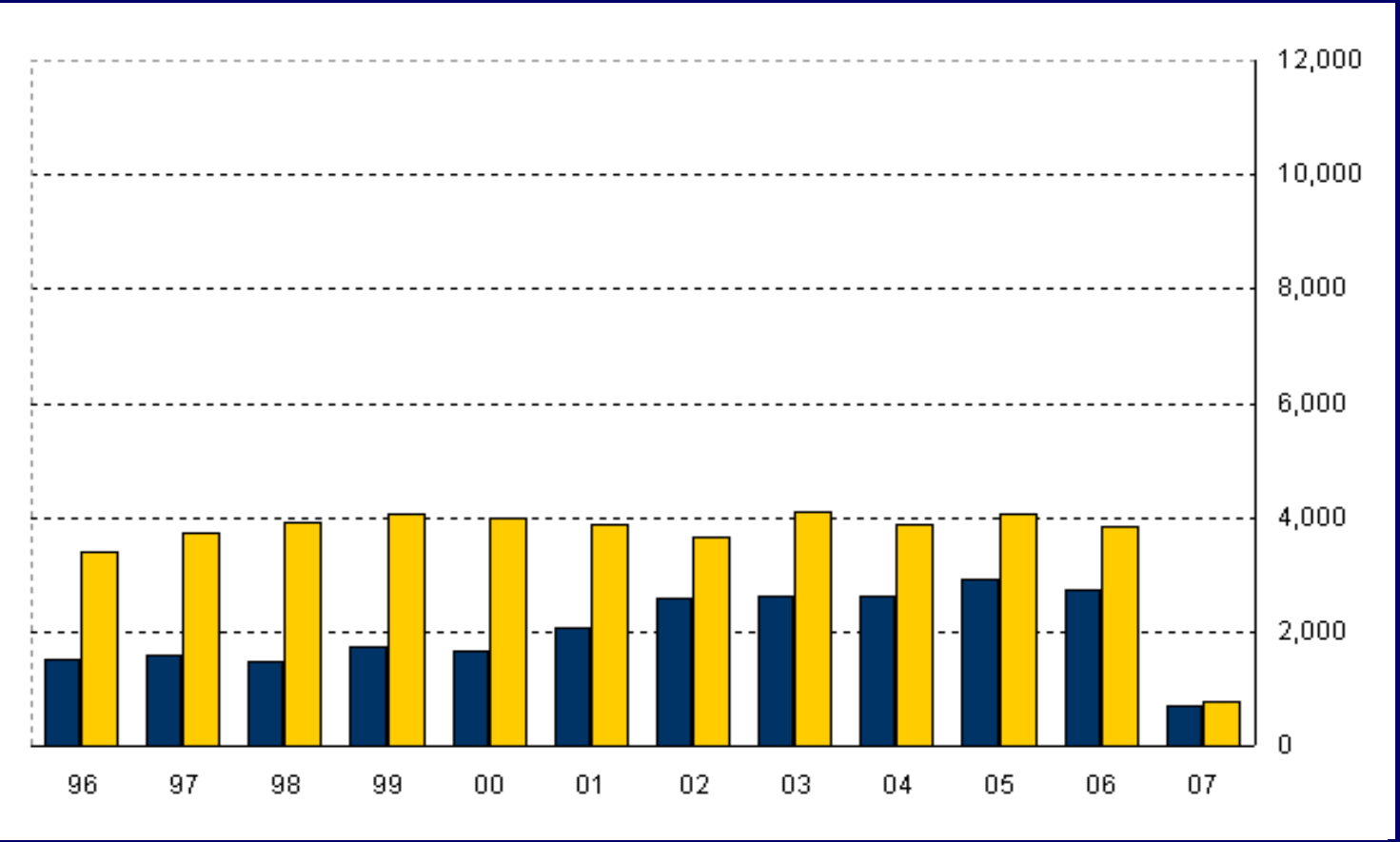
67 & 65 core journals
1966 - 2007



78-LISA-LISTA...../yr-scopus-wos—2nelkul

Jacso

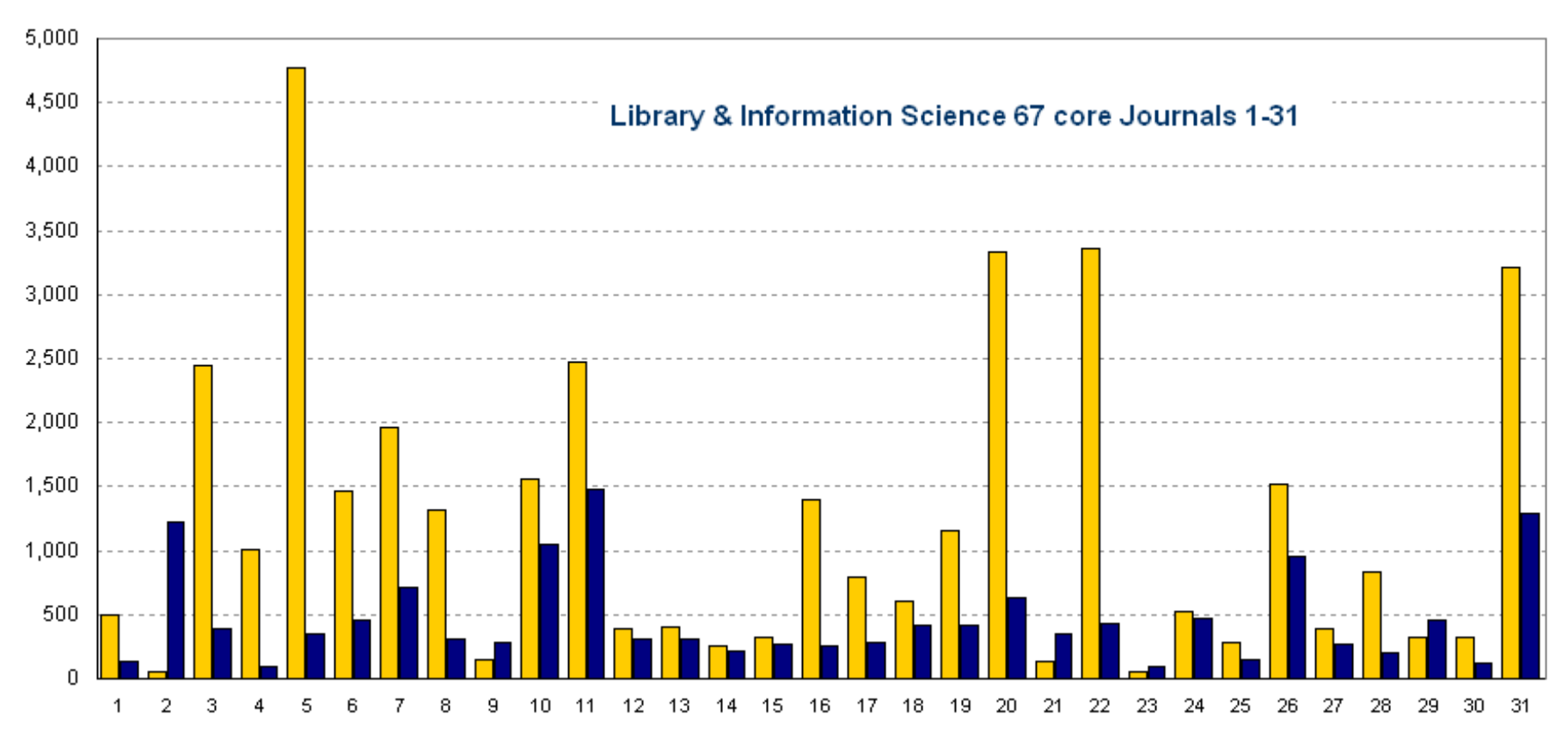
67 & 65 core journals
1996 - 2007



79-LISA-LISTA...../yr-scopus-wos—2nelkul

Jacso

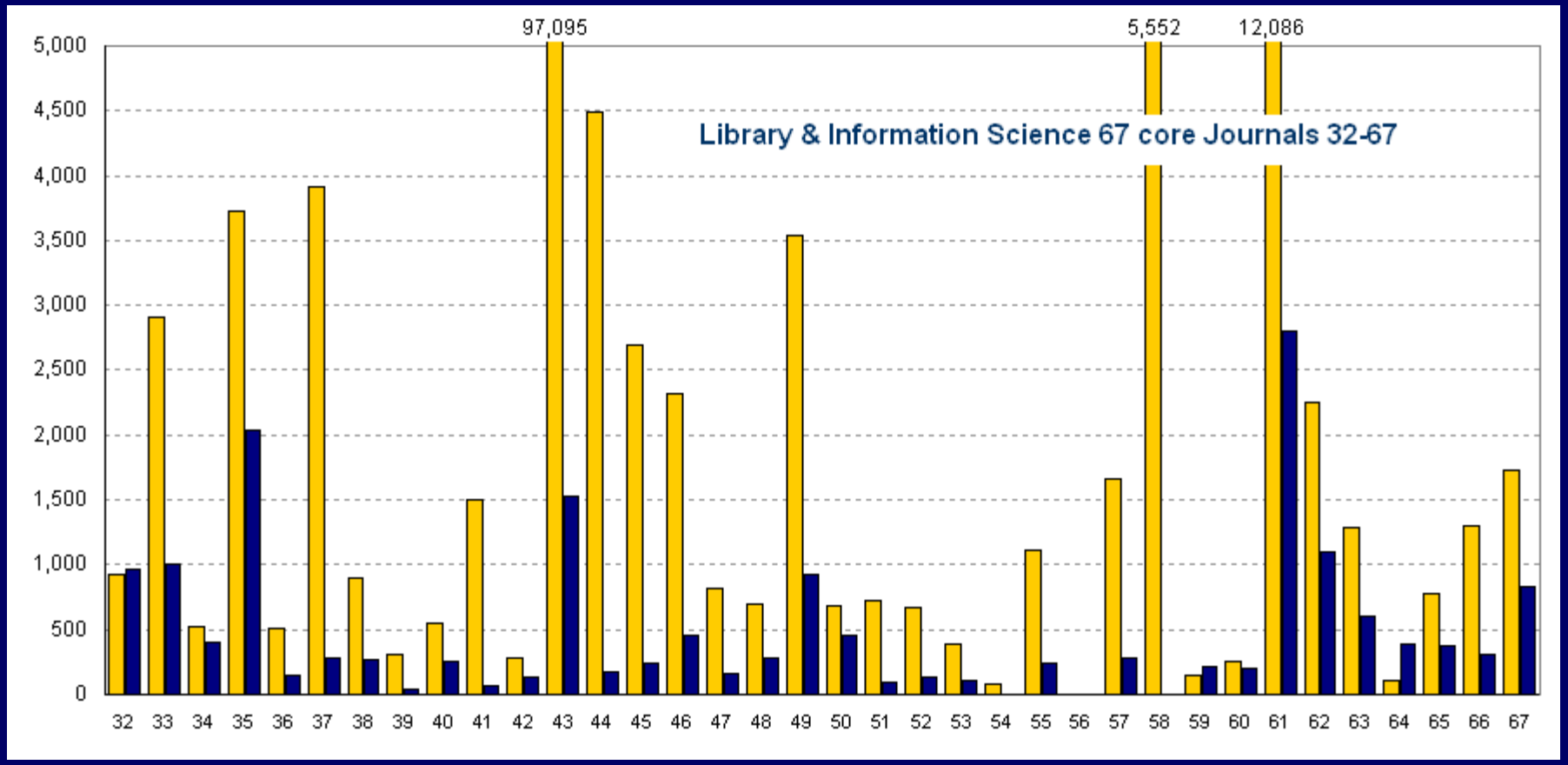
core 67 Journals
all years



31-core 67scopus/-summary-csucsu

Jacso

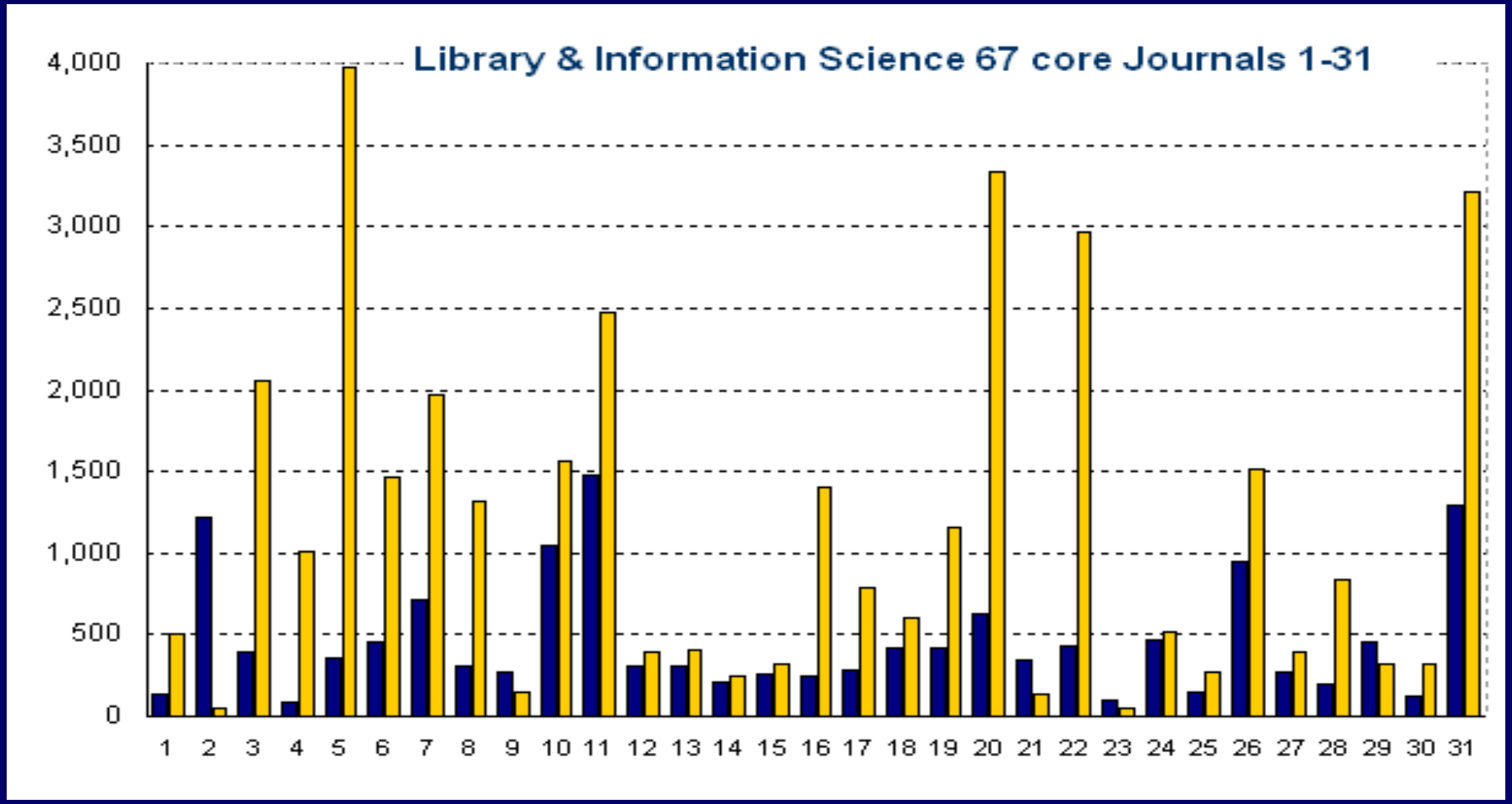
core 67 Journals
all years



32-core 67/summary-csucsu

Jacso

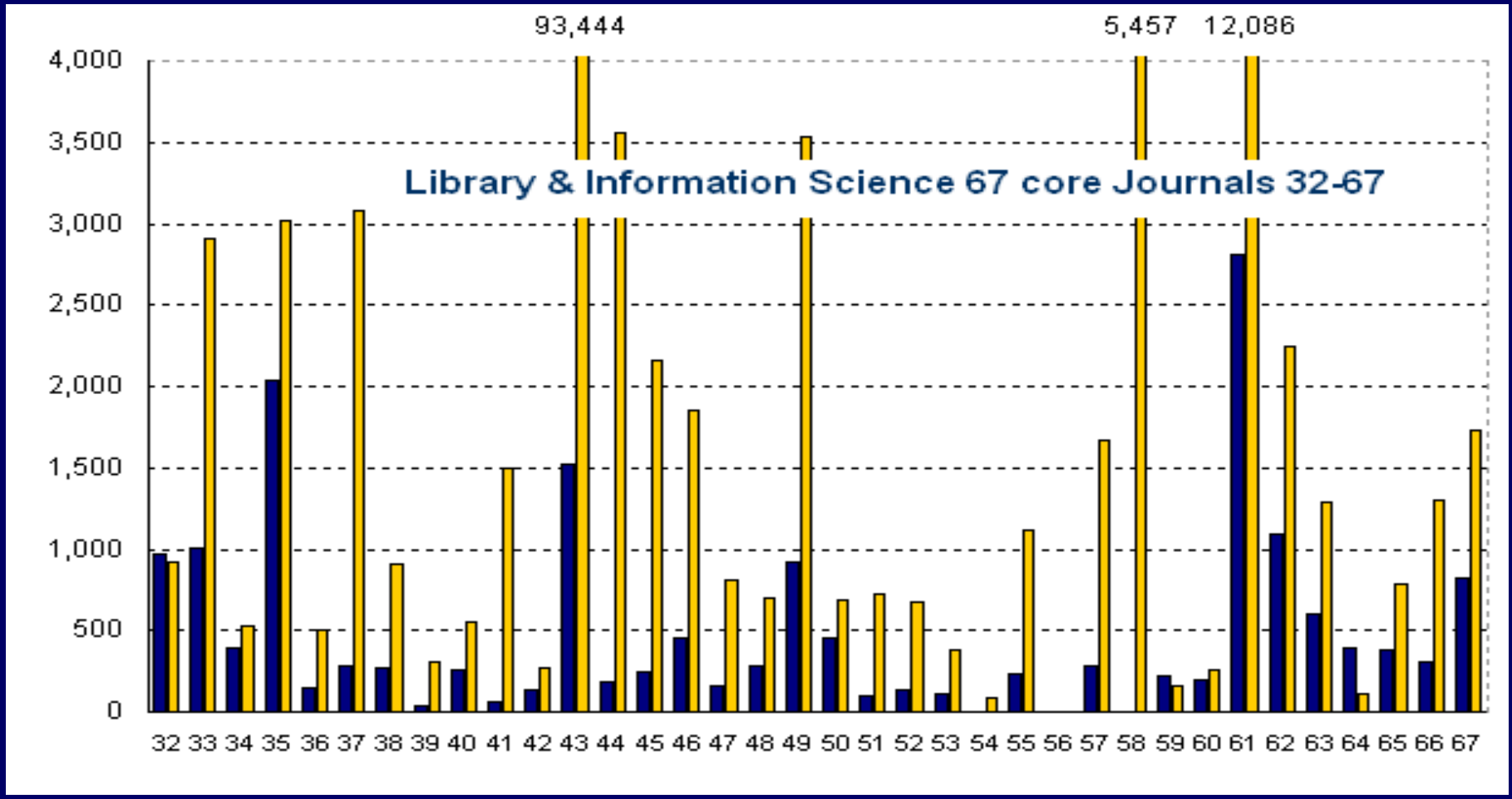
core 67 Journals
1966 - 2007 years



39-core 67/year-scopus-wos-66-07

Jacso

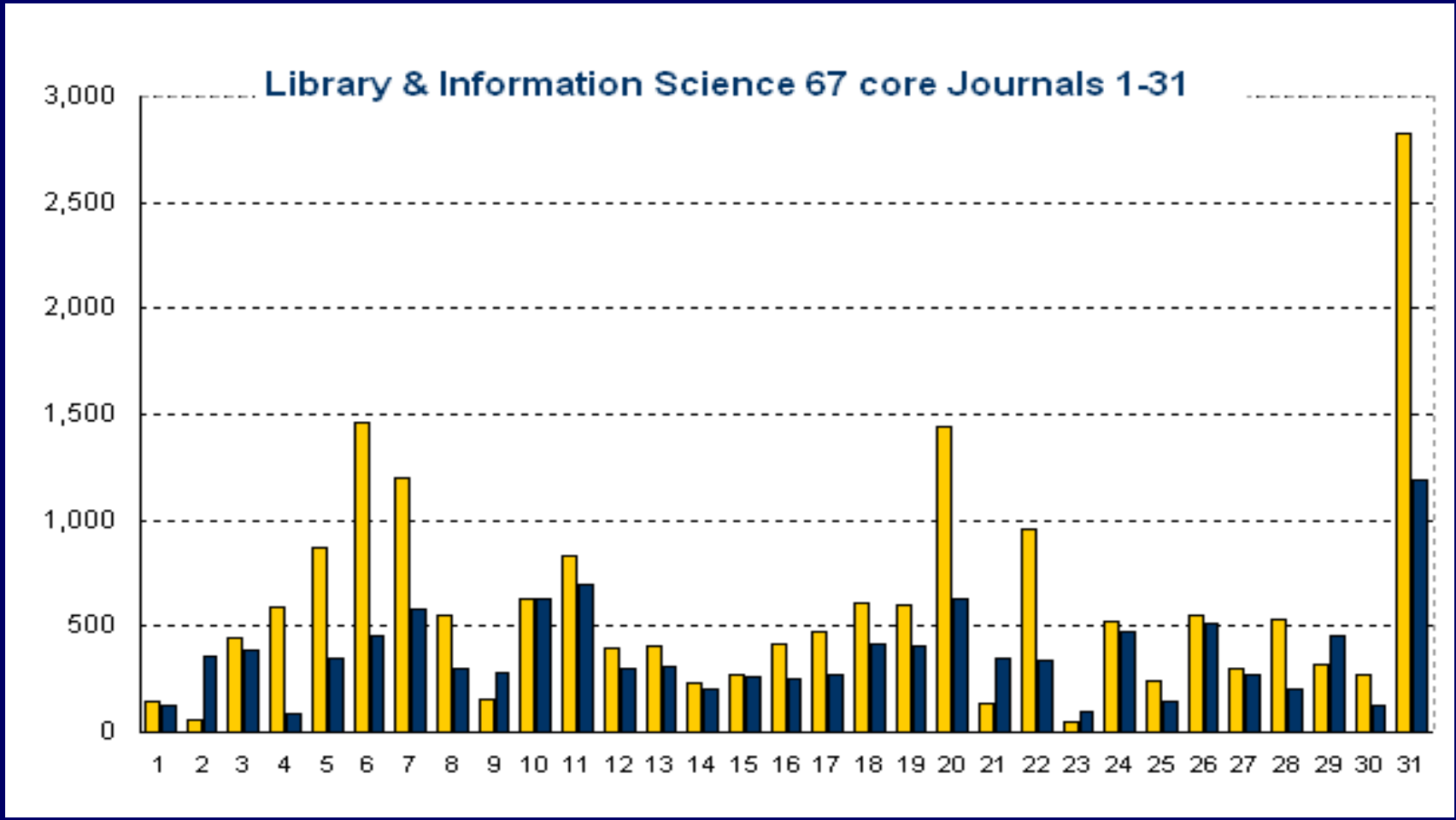
core 67 Journals
1966 - 2007 years



40-core 67/year-scopus-wos-66-07

Jacso

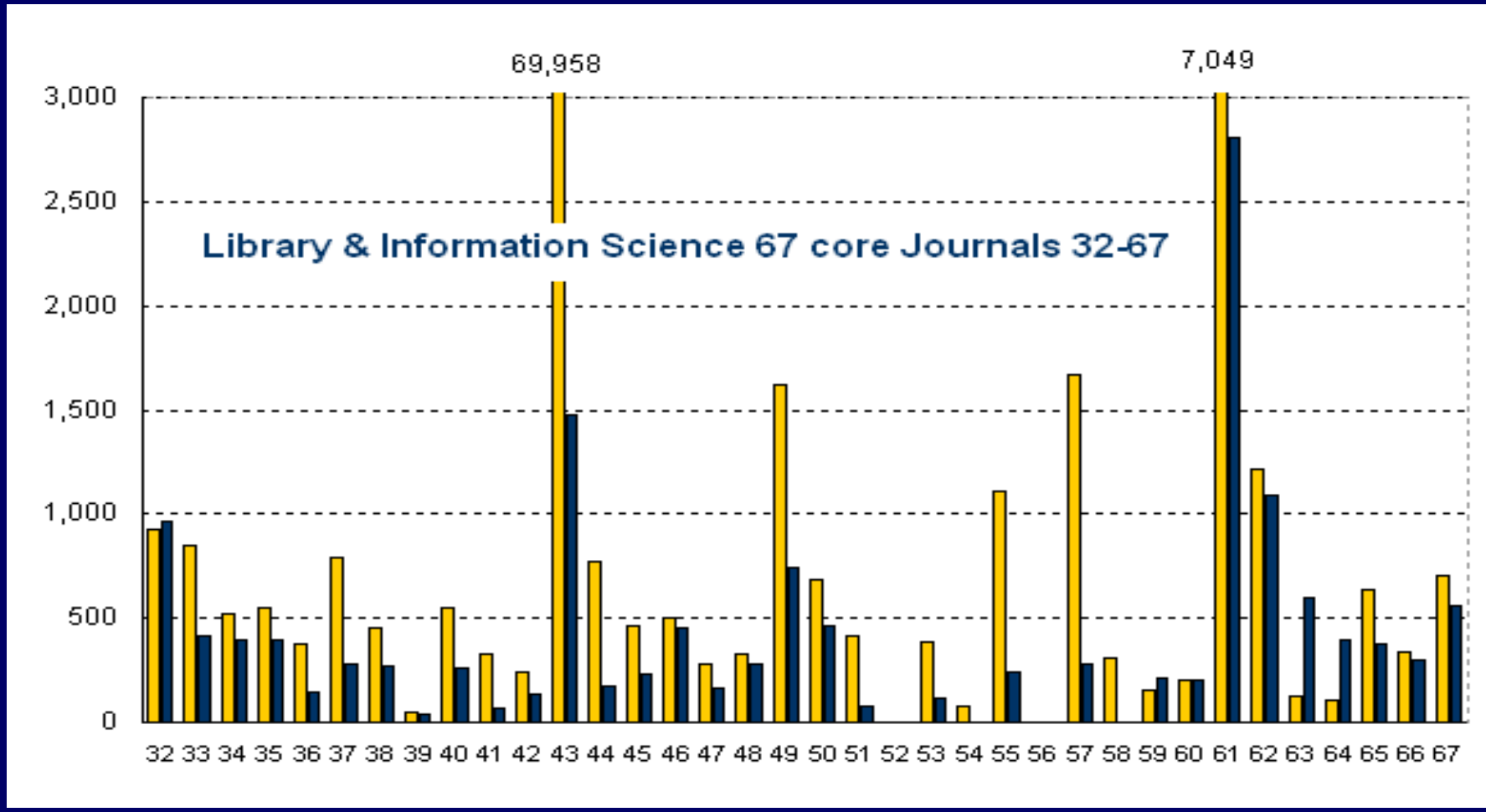
core 67 Journals
1996 - 2007 years



36-core 67/year-scopus-wos-96-07

Jacso

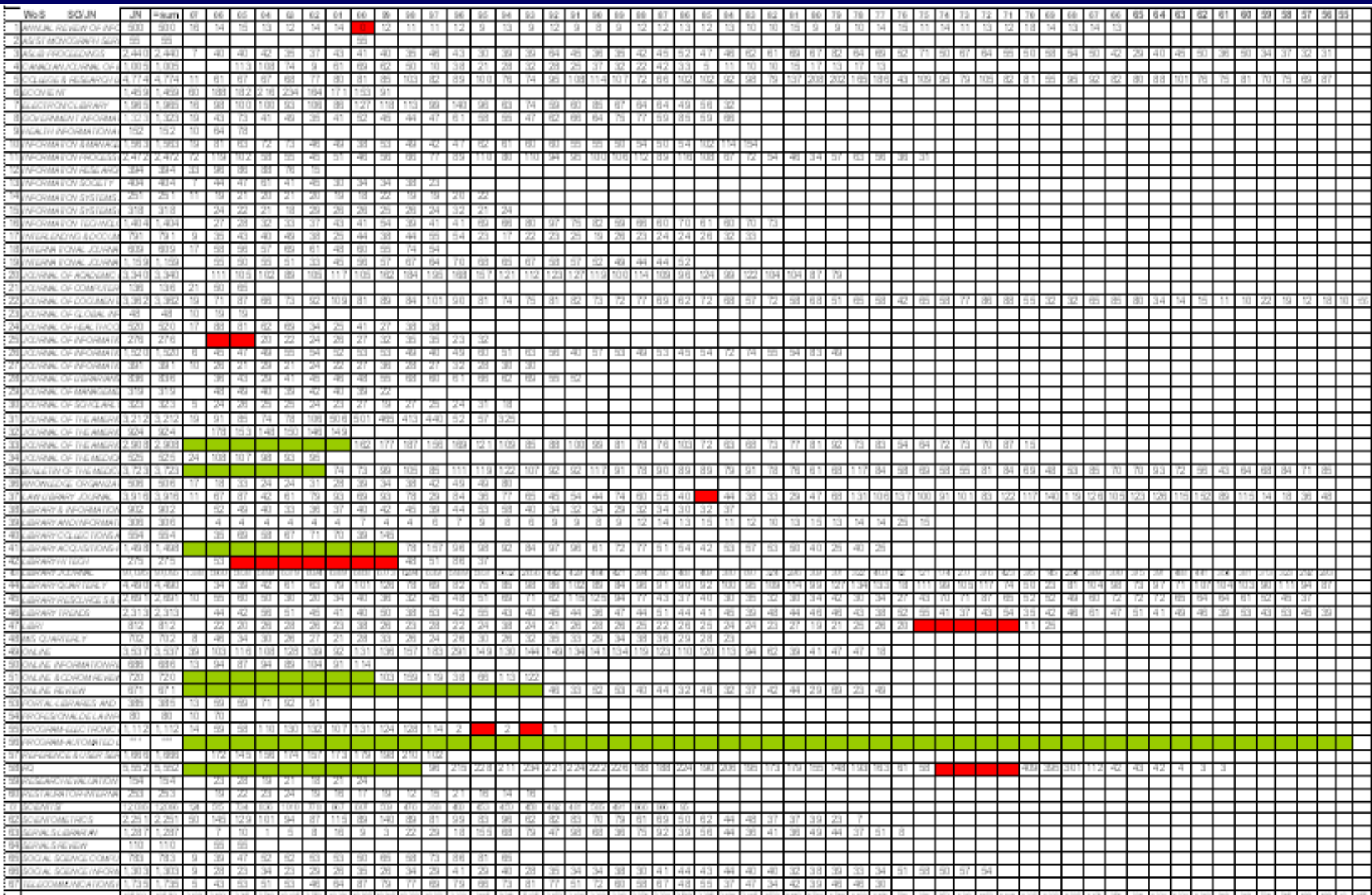
core 67 Journals
1996 - 2007 years



37-core 67/year-scopus-wos-96-07

Jacso

core 67 Journals - WoS missing years



core 67 Journals - Scopus missing years

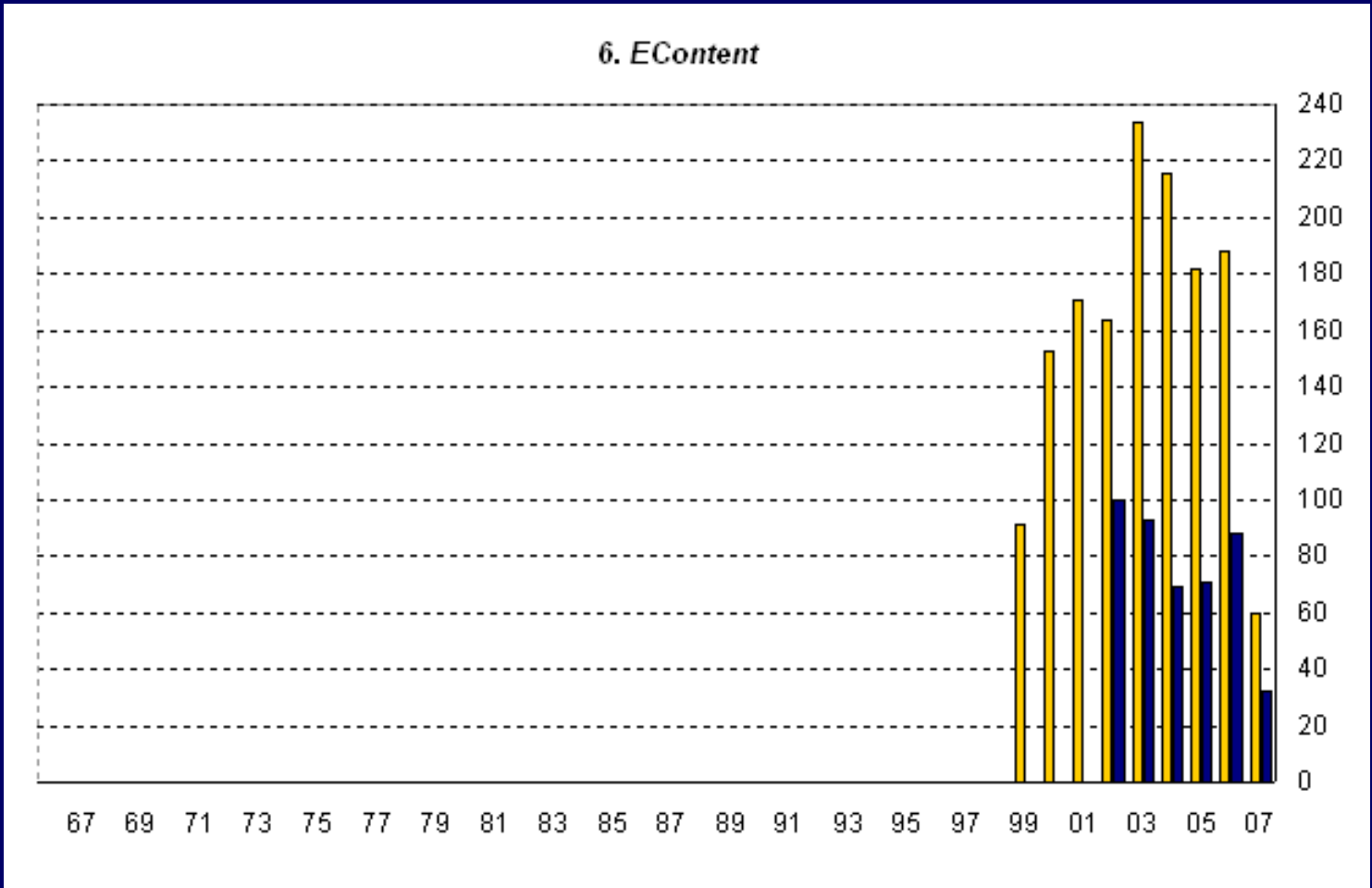
	Scopus SO/JN	ISSN	JN	= sum	07	06	05	04	03	02	01	00	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66
1	ANNUAL REVIEW OF INFORMATION	135	135	135	16	14	14	12	12	14		9	8	8	8	8									10					1	1																
2	ASIST MONOGRAPH SERIES	1218	1218	1218						59	60	48	69	52	29	38				40					74	66	87	97	96	238	198	1	1														
3	ASLIB PROCEEDINGS	395	395	395	12	40	37	36	38	40	42	36	38	13	25	32								1						1				+													
4	CANADIAN JOURNAL OF INFORMA	91	91	91			11	14	13		11	7	12	8	8	7																														
5	COLLEGE & RESEARCH LIBRARIES	353	353	353	5	35	28	18	28	40	34	36	36	35	26	32																														
6	ECONTENT	453	453	453	32	88	71	69	93	100																																				
7	ELECTRONIC LIBRARY	716	716	716	8	58	63	54	61	119	98	27	28	19	20	28	12	8	27		3	12	16	27	13	7	4	4																	
8	GOVERNMENT INFORMATION QUAI	311	311	311	25	27	40	28	25	25	20	25	22	22	21	23						6				1	1																			
9	HEALTH INFORMATION AND LIBRAI	276	276	276		31	68	64	38	37	38																																			
10	INFORMATION & MANAGEMENT	1090	1090	1090	19	80	63	72	74	49	49	38	53	48	42	46	29	30		10		10	50	54	43	31	40	24	24	22	25	15	10												
11	INFORMATION PROCESSING & MAI	1475	1475	1475	78	103	90	96	49	44	41	40	43	46	52	51	55	59	55	56	47	52	55	39	40	39	34	16	37	58	29	4	27	21	22	24	13								
12	INFORMATION RESEARCH-AN INTE	303	303	303		32	40	51	23	28	47	27	17	18	4	16																														
13	INFORMATION SOCIETY	309	309	309	12	31	35	35	35	34	20	25	23	22	17	20																														
14	INFORMATION SYSTEMS JOURNAL	212	212	212	11	18	22	20	21	21	13	16	16	16	16	16	6																													
15	INFORMATION SYSTEMS RESEARC	264	264	264		27	26	22	22	29	23		46	21	21	27																														
16	INFORMATION TECHNOLOGY AND I	252	252	252		32	29	21	33	25	24	23	20	19	15	11																														
17	INTERLENDING & DOCUMENT SUP	287	287	287	8	31	34	37	38	27	18	15	15	13	17	15	19																													
18	INTERNATIONAL JOURNAL OF GEO	419	419	419	12	41	46	39	36	41	41	43	40	42	38																														
19	INTERNATIONAL JOURNAL OF INFO	420	420	420	13	45	43	40	43	32	32	30	32	33	31	33		13																													
20	JOURNAL OF ACADEMIC LIBRARIAN	633	633	633	33	77	75	66	51	59	44	41	50	41	46	50																														
21	JOURNAL OF COMPUTER-MEDIATE	344	344	344	21	34	61	31	33	26	23	17	23	18	28	29																														
22	JOURNAL OF DOCUMENTATION	432	432	432	13	36	44	36	28	26	31	32	22	27	24	15							2	1	5	2		14	16	17	16	6	12	5		1	1									
23	JOURNAL OF GLOBAL INFORMATIO	100	100	100		17	17	21	21	24																																				
24	JOURNAL OF HEALTH COMMUNICA	472	472	472	14	80	72	57	62	32	21	37	24	31	21	21																														
25	JOURNAL OF INFORMATION ETHIC	145	145	145		19	19	13	16	20	8	13	10	11	5	9		1		1																										
26	JOURNAL OF INFORMATION SCIEN	949	949	949	15	46	49	47	54	49	43	44	48	42	39	39	42	9	39	39	25	44	14	13	16	18	26	29	36	34	25	20	5												
27	JOURNAL OF INFORMATION TECHN	270	270	270	10	26	21	27	20	25	16	22	27	23	23	30																														
28	JOURNAL OF LIBRARIANSHIP AND	200	200	200	4	18	19	16	21	21	17	16	18	17	16	17																														
29	JOURNAL OF MANAGEMENT INFOR	468	468	468		35	49	39	39	32	51	40	38	34	43	58																														
30	JOURNAL OF SCHOLARLY PUBLISH	121	121	121	2	22	21				10	17	17	22	4	6																														
31	JOURNAL OF THE AMERICAN MED	1294	1294	1294	37	92	85	72	76	81	67	73	55	67	328	198	51	52																													
32	JOURNAL OF THE AMERICAN SOCI	969	969	969	63	182	139	114	128	123	126	94																																		
33	JOURNAL OF THE AMERICAN SOCI	1012	1012	1012									131	99	101	80	2			1	4	8	25	26	23	11	29	42	47	54	44	33	39	23	33	36	36	33	47	4	1				
34	JOURNAL OF THE MEDICAL LIBRAR	397	397	397	18	83	83	75	68	67	2		1																																	
35	BULLETIN OF THE MEDICAL LIBRAR	2038	2038	2038							49	51	71	87	58	81	78	77	70	57	59	85	96	52	54	54	54	55	53	43	42	42	48	63	63	59	58	96	40	44	67	57	47	39	39	30
36	KNOWLEDGE ORGANIZATION	147	147	147		12	12	19	17	17	13	11	10	8	14	14																														
37	LAW LIBRARY JOURNAL	285	285	285	9	21	36	32	30	32	52	13	13	21	15	8						2																								
38	LIBRARY & INFORMATION SCIENCE	270	270	270	10	33	30	29	26	24	26	22	20	17	16	17																														
39	LIBRARY AND INFORMATION SCIEN	40	40	40		4	4	4	3	4	5	4	4	2	6																														
40	LIBRARY COLLECTIONS ACQUISITI	261	261	261		19	32	39	47	41	31	28	24																																
41	LIBRARY ACQUISITIONS-PRACTICE	66	66	66										32	20	14																														
42	LIBRARY HI TECH	135	135	135	13	50	49							14		9																														
43	LIBRARY JOURNAL	1525	1525	1525	61	327	249	304	263	271											5	3	1		3	2	5	5	3	2	3	1	9	7					1						
44	LIBRARY QUARTERLY	179	179	179		27	20	19	17	16	15	12	13	12	13	13																1		1											
45	LIBRARY RESOURCES & TECHNICA	244	244	244	5	31	25	27	20	12	13	23	19	16	19	23						2						1	1	2	1		2	2											
46	LIBRARY TRENDS	450	450	450		43	40	53	51	30	49	35	40	33	38	37														1															
47	LIBRI	160	160	160		23	21				17	34	25	23	7	10																													
48	MIS QUARTERLY	278	278	278	8	46	32	24	22	16	16	23	26	23	21	21																														
49	ONLINE	922	922	922	30	86	91	83	104	132	93	24	15	32	24	33	35					4	15	7	14	6	7	29	22	15	4	1	6	6	4										
50	ONLINE INFORMATION REVIEW	460	460	460	7	46	43	44	41	118	141	10	10																																
51	ONLINE & CDROM REVIEW	94	98	98								32	11	11	10	14	9	8	3																									
52	ONLINE REVIEW	135	131	131																		3	10	12	12	7	5	15	22	19	7	1	10	8	0									
53	PORTAL-LIBRARIES AND THE ACAD	113	113	113	8	32	34	39																																					
54	PROFESIONAL DE LA INFORMACIO	***	***	***																																									
55	PROGRAM-ELECTRONIC LIBRARY A	239	239	239	7	29	26	21	21	19	18	22	18	19	18	21																														
56	PROGRAM-AUTOMATED LIBRARY A	^	^	^																																									
57	REFERENCE & USER SERVICES QU	282	282	282		34	36	25	35	36	25	22	24	23	22																														
58	RQ	***	***	***																																									
59	RESEARCH EVALUATION	215	215	215		23	28	19	21	17	19	22	22	20		24																														
60	RESTAURATOR-INTERNATIONAL JO	199	199	199		19	22	23	21	20	16	17	18	10	15	18																														
61	SCIENTIST	2807	2807	2807	45	312	454	474	517	475	208	136	181	2				2																												
62	SCIENTOMETRICS	1093	1093	1093	61	131	121	97	92	84	91	82	91	85	74	83								1																						
63	SERIALS LIBRARIAN	606	606	606		62	86	70	89	38	46	48	50	39	36	37										1	1			1				1											
64	SERIALS REVIEW	395	395	395	8	46	46	52	55	53	31	18	30	15	19	23																														
65	SOCIAL SCIENCE COMPUTER REVI	378	378	378	8	37	43	42	37	34	30	34	29	22	26	35						1																								
66	SOCIAL SCIENCE INFORMATION SC	310	310	310	9	27	22	33	21	29	24	29	24	28	26	31									1				4		1		1												

JN one by one YR

LISA-LISTA...../yr-scopus-wos-jn-egyenkent

Jacso

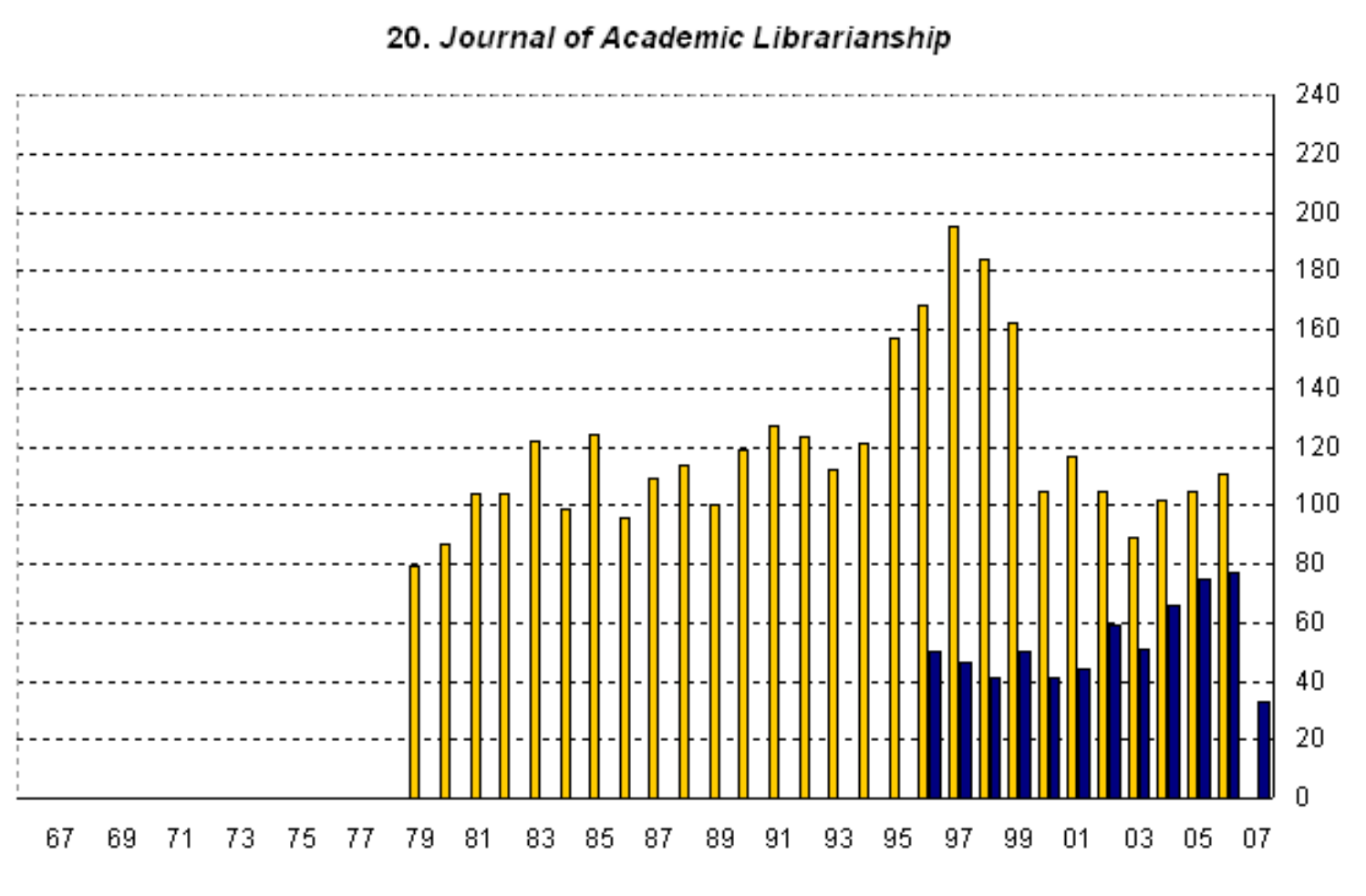
6. *ECONTENT*



106-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

Jacso

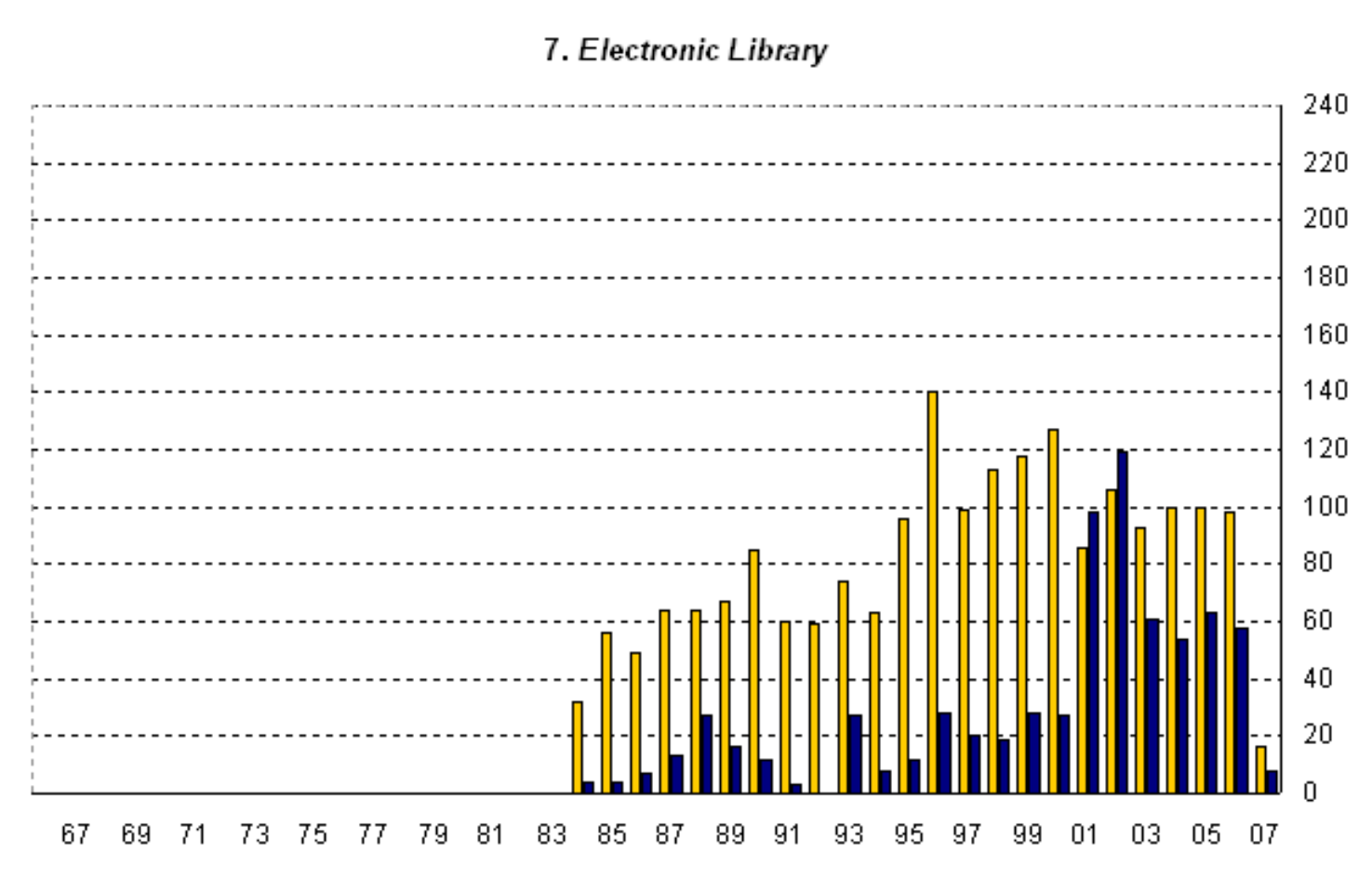
20. *JOURNAL OF ACADEMIC LIBRARIANSHIP*



120-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

Jacso

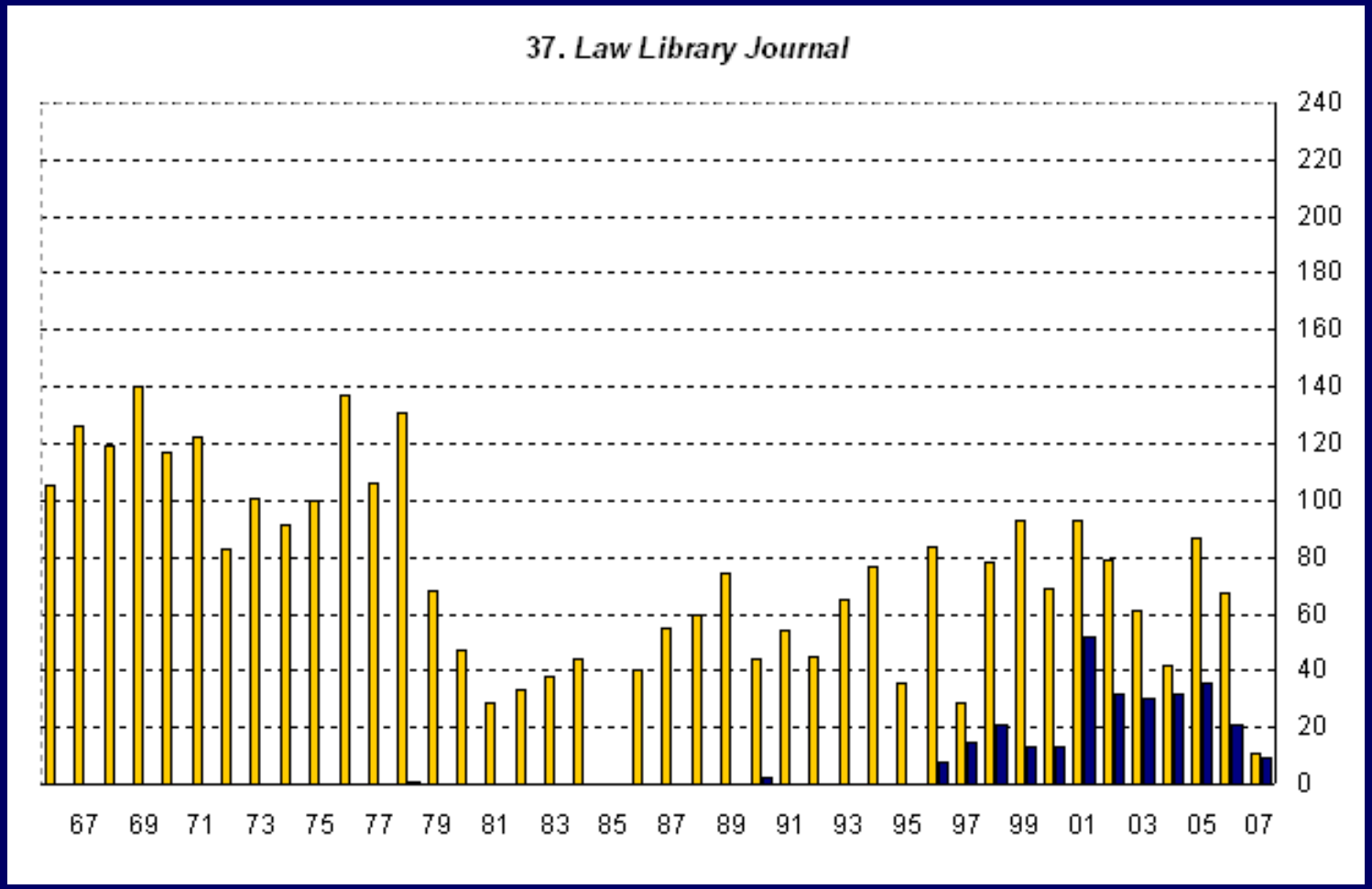
7. ELECTRONIC LIBRARY



107-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

Jacso

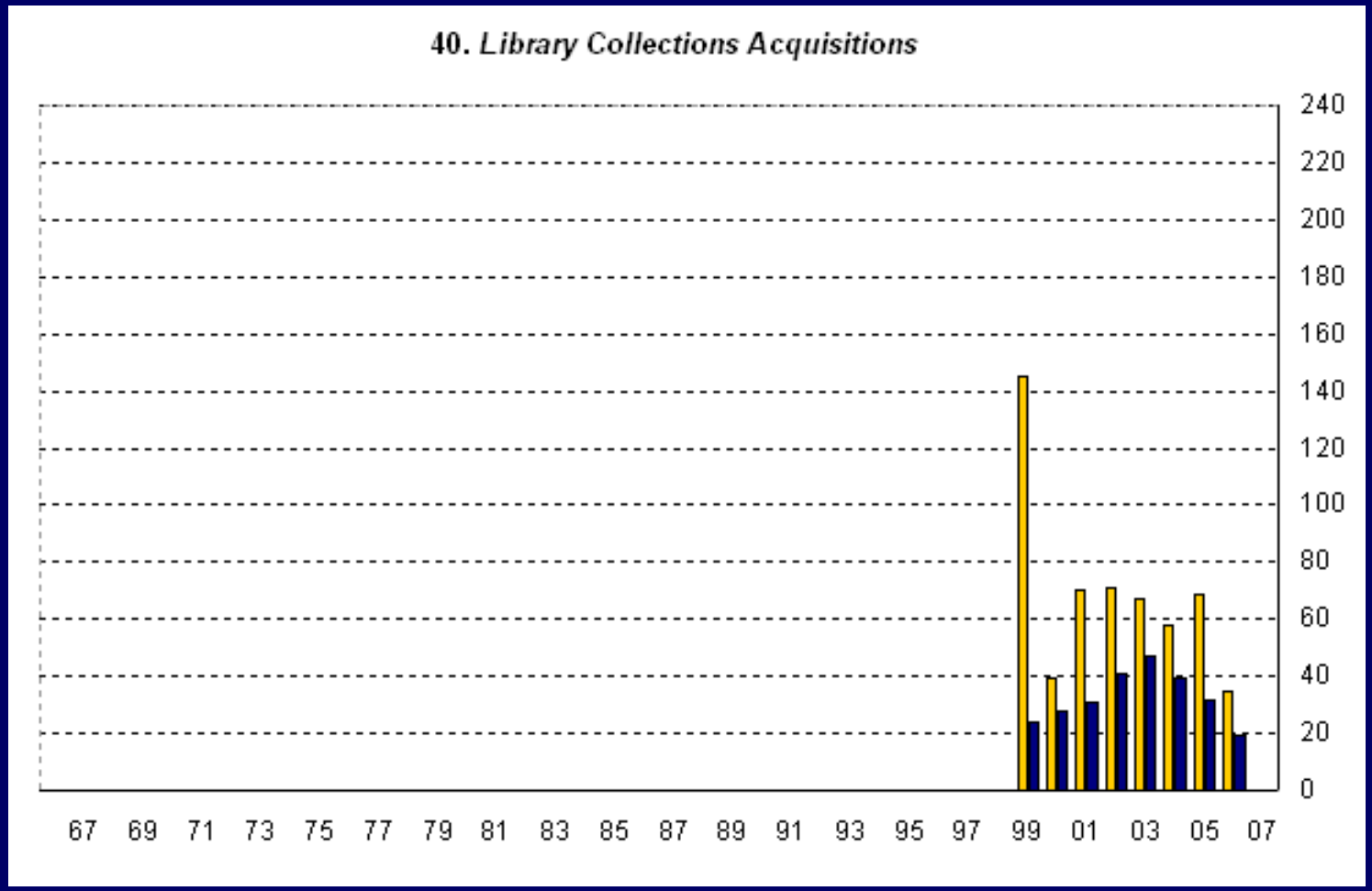
37. *LAW LIBRARY JOURNAL*



137-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

Jacso

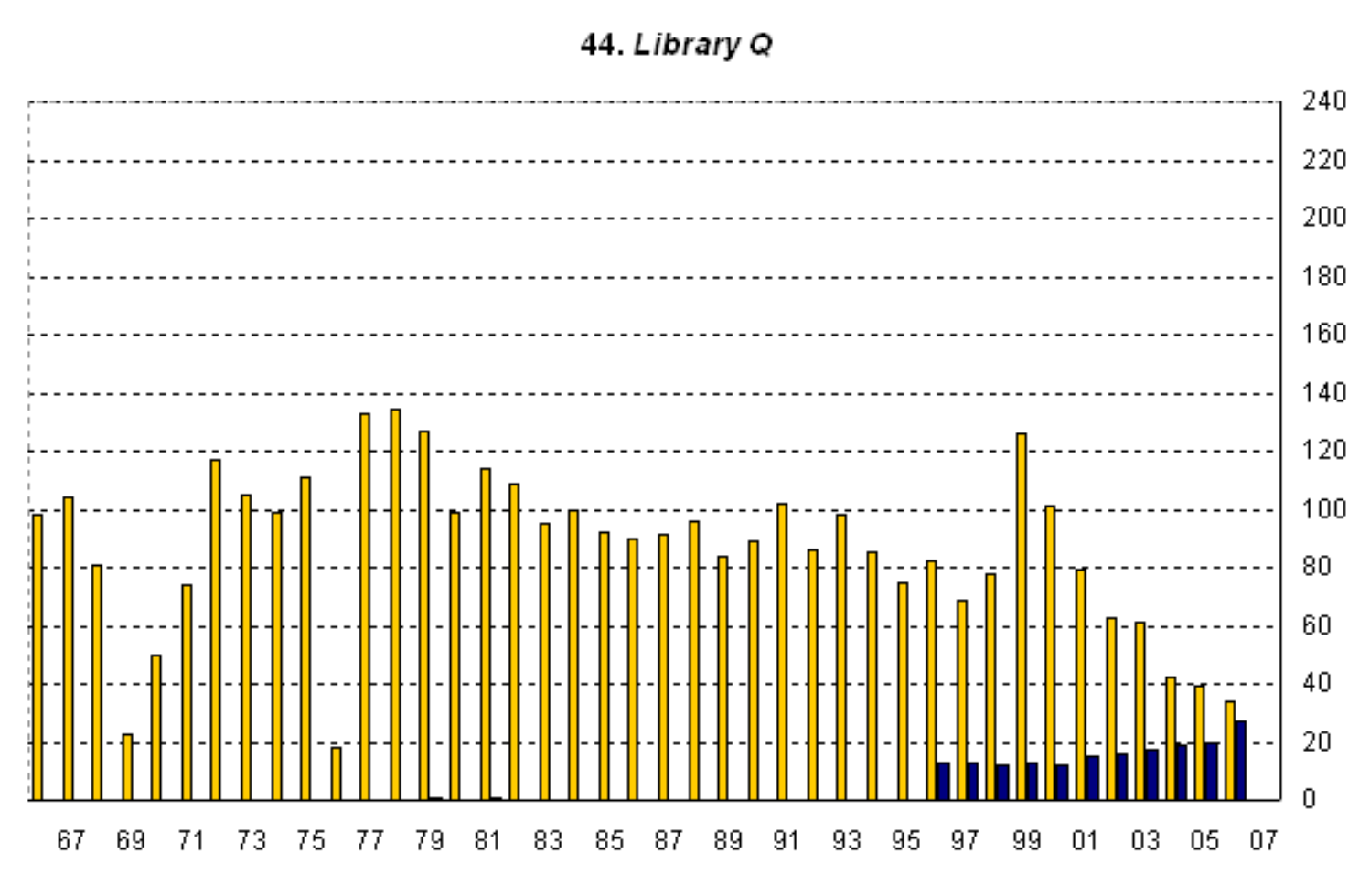
40. *LIBRARY COLLECTIONS ACQUISITIONS & TECHNICAL S.*



140-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

Jacso

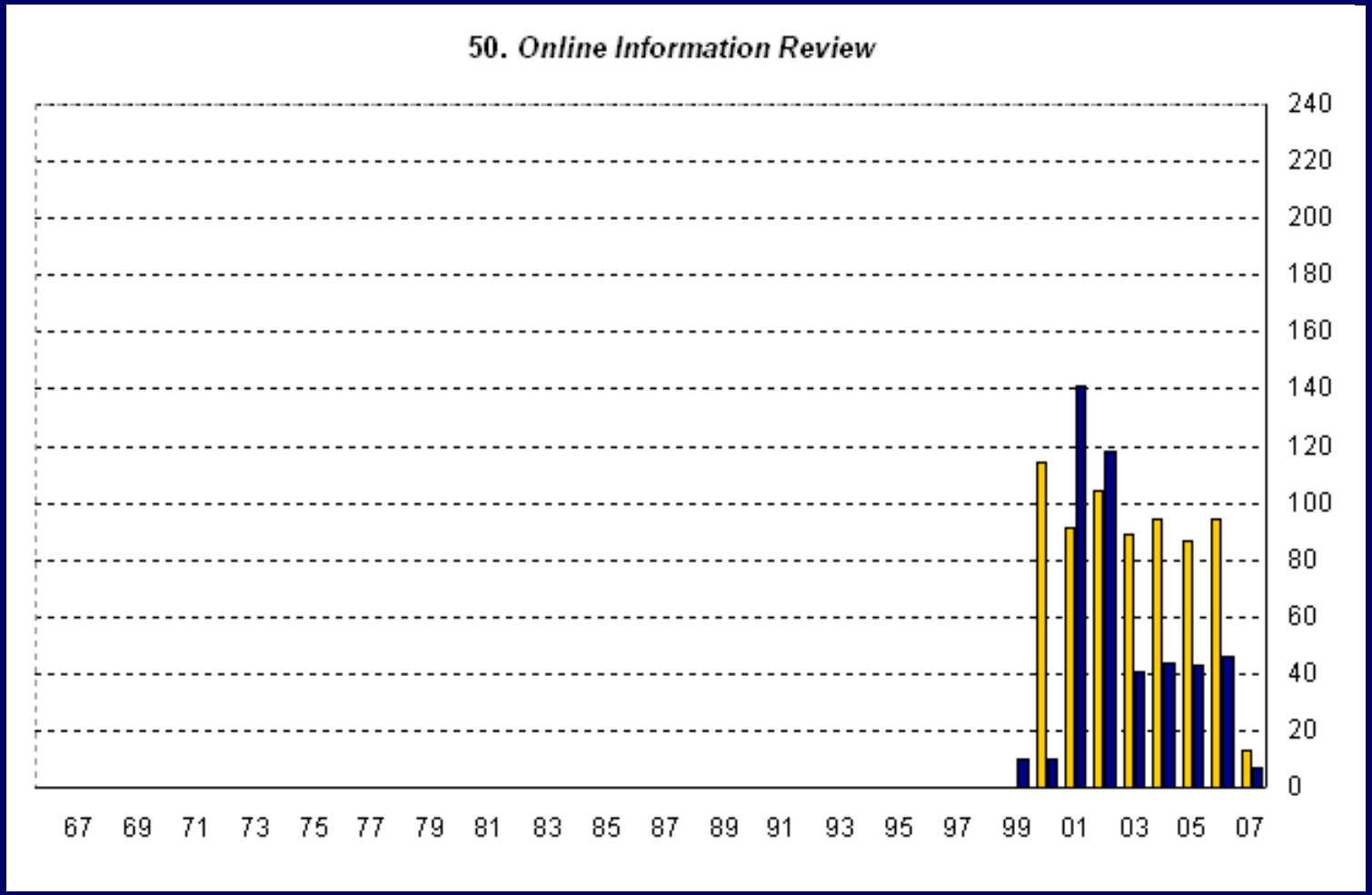
44. *LIBRARY QUARTERLY*



144-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

Jacso

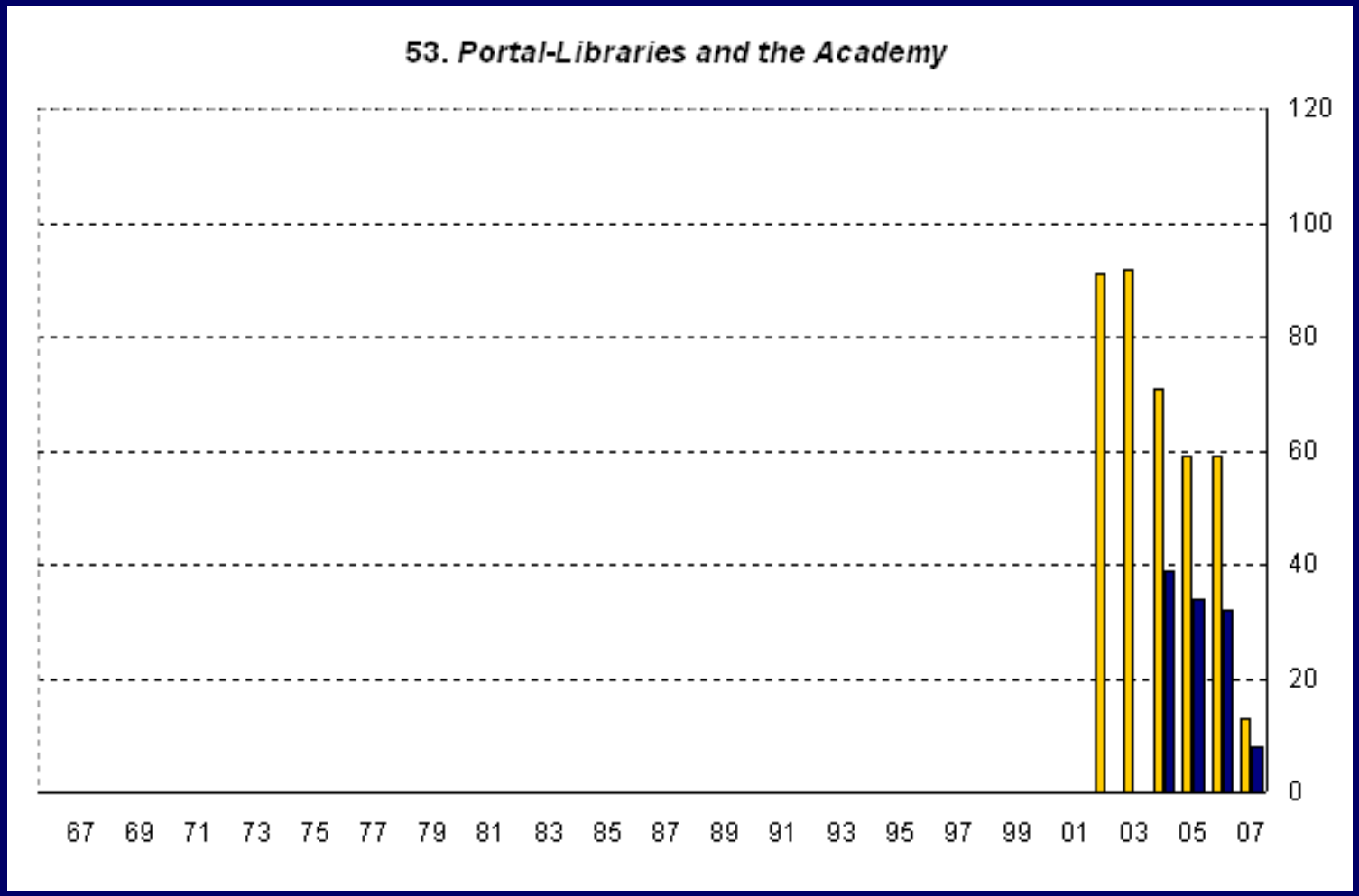
52. *ONLINE REVIEW*
51. *ONLINE & CDROM REVIEW*
50. *ONLINE INFORMATION REVIEW*



152a-151-150-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

Jacso

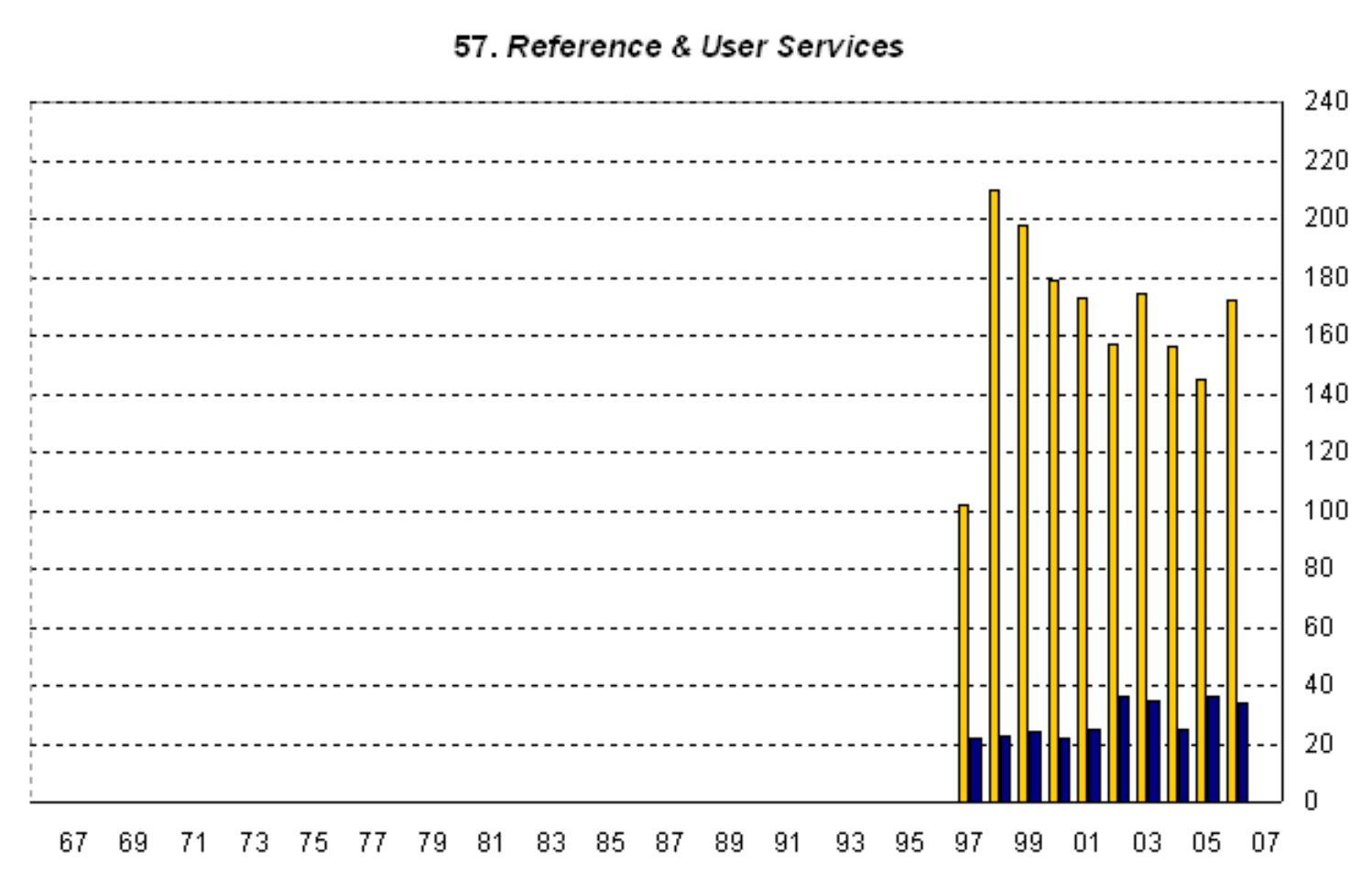
53. PORTAL-LIBRARIES AND THE ACADEMY



153-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

Jacso

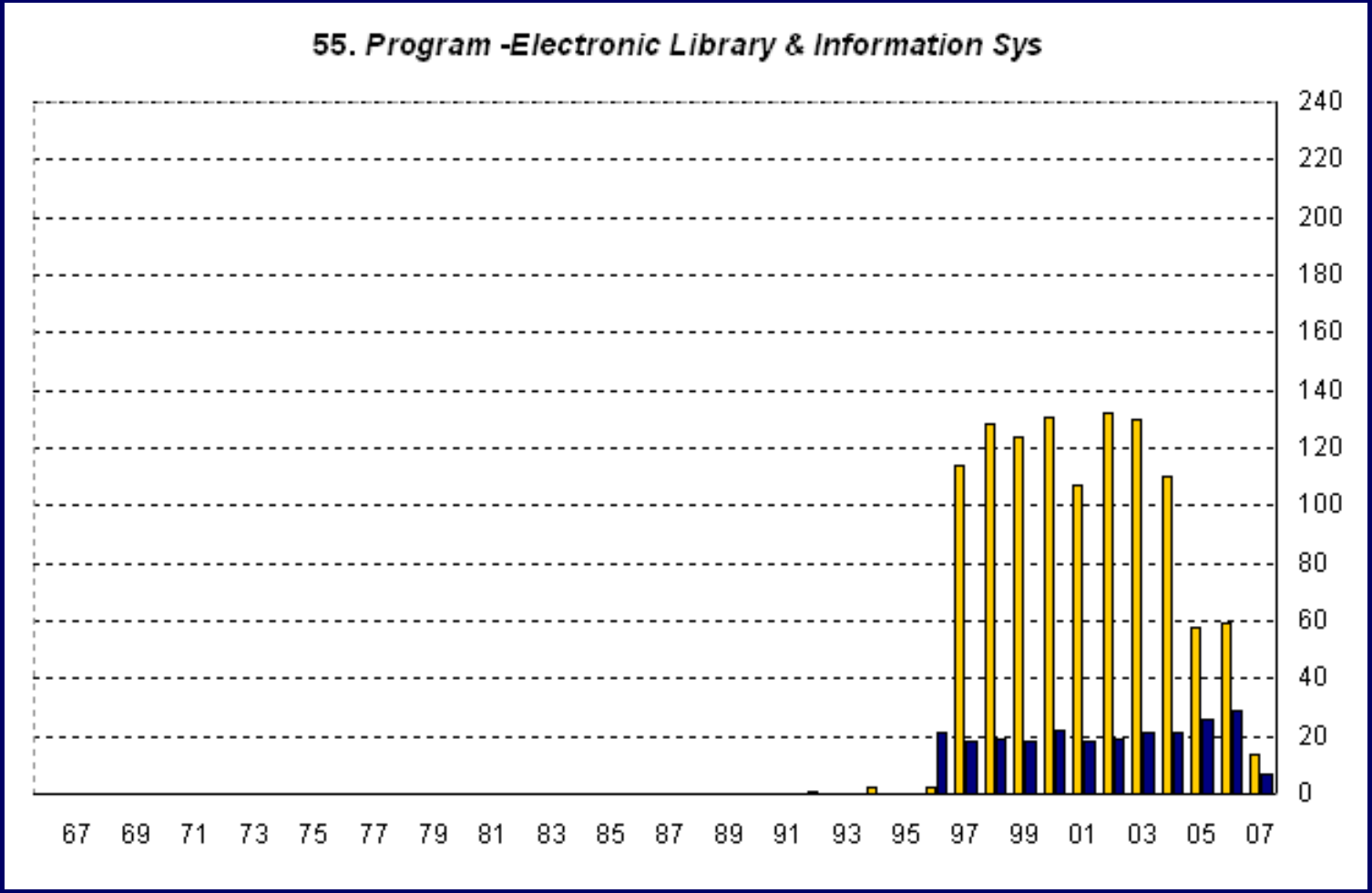
57. *REFERENCE & USER SERVICES QUARTERLY*



157-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

Jacso

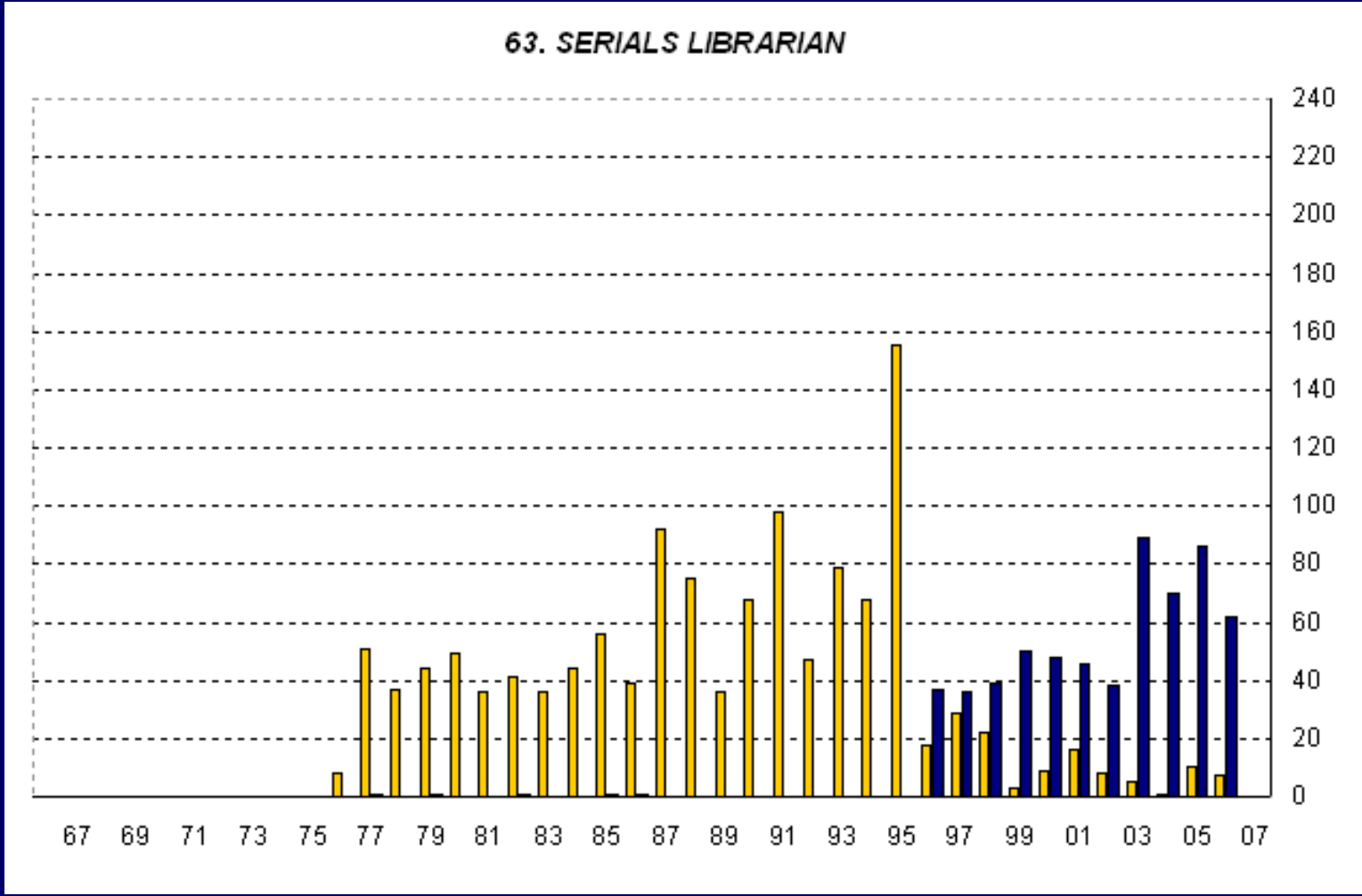
55. *PROGRAM-ELECTRONIC LIBRARY AND INFORMATION SYS*



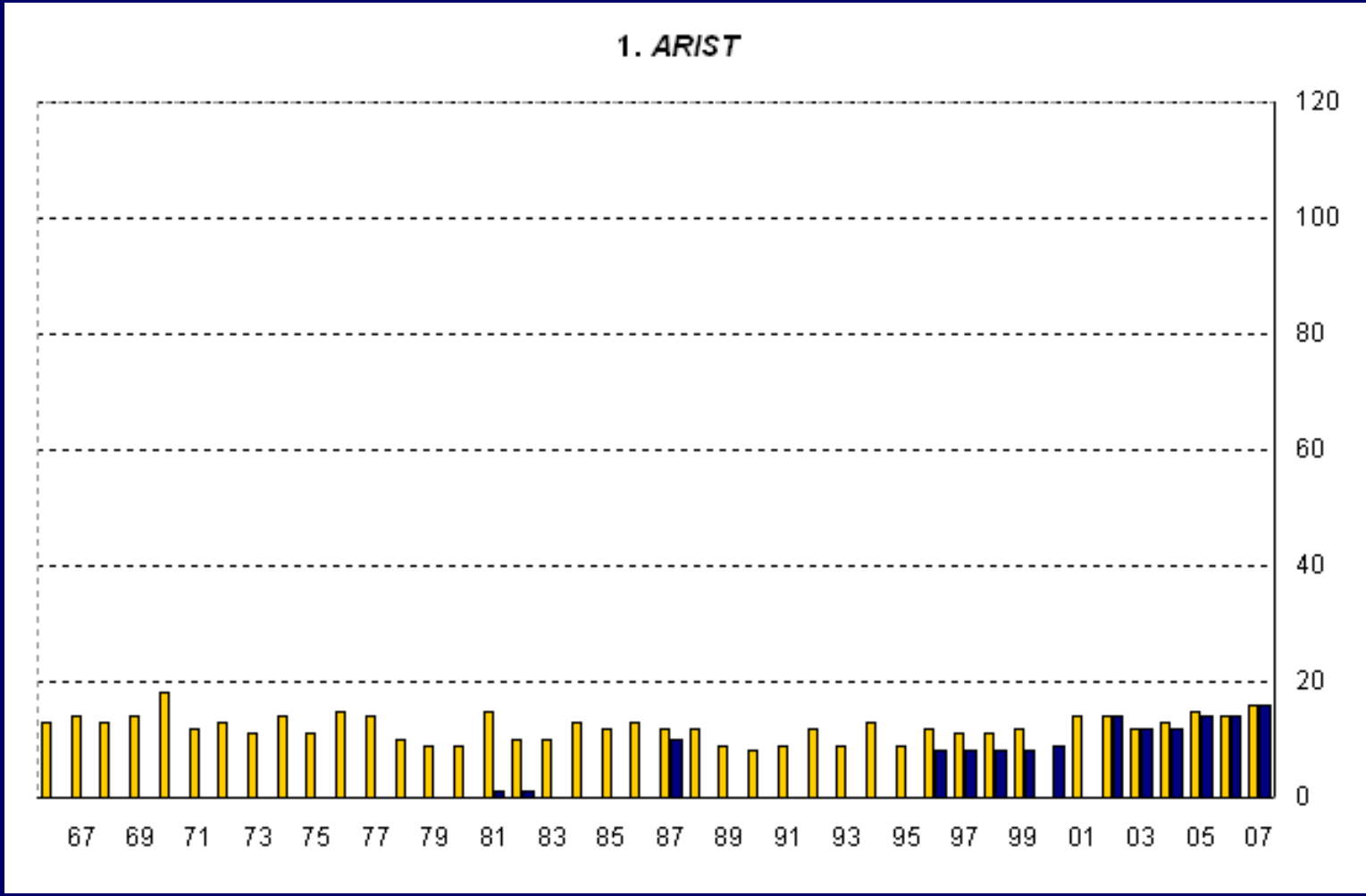
155-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

Jacso

63. SERIALS LIBRARIAN



1. *ARIST*



101-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

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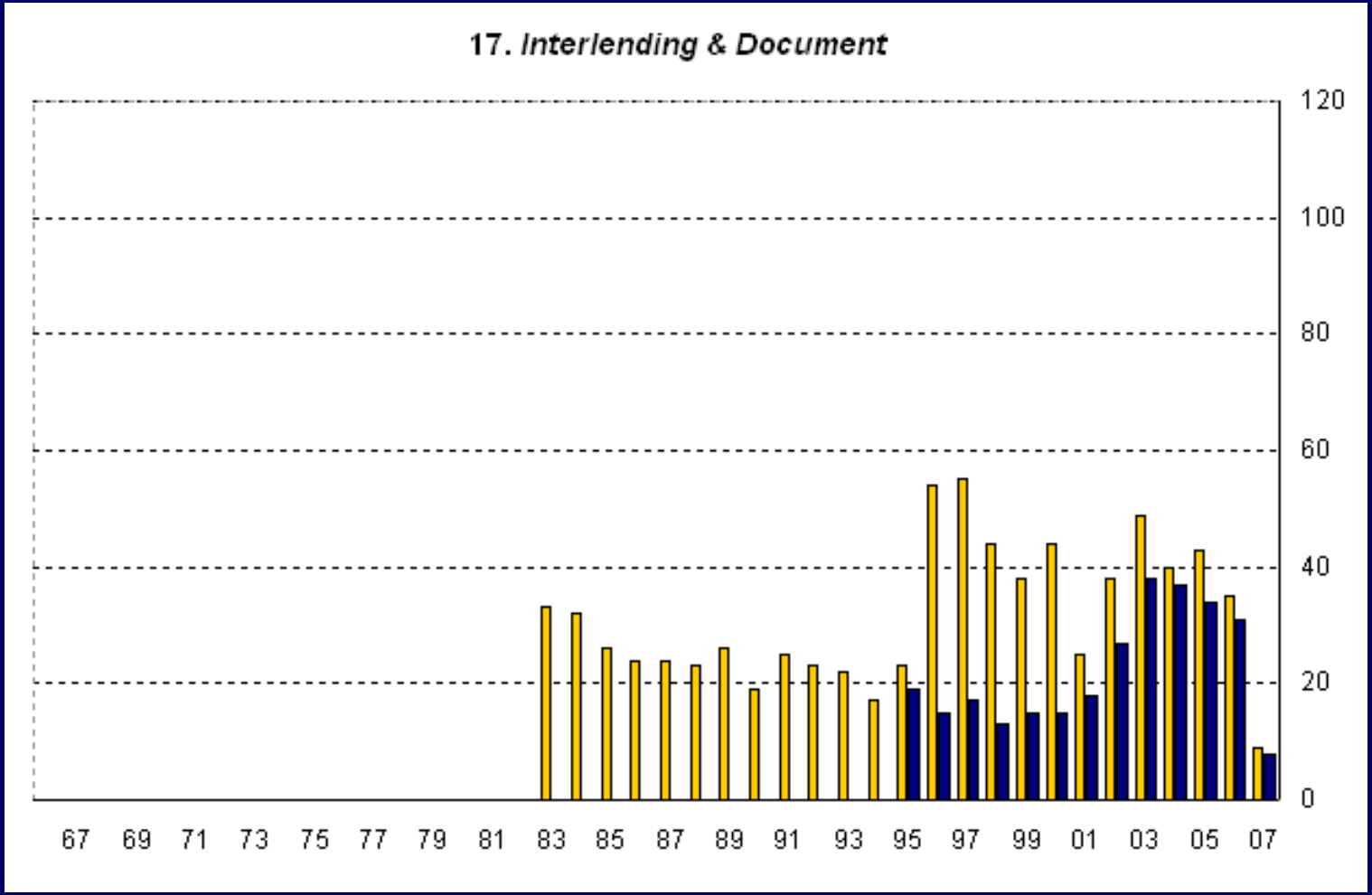
17. *INTERLENDING & DOCUMENT SUPPLY*



117-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

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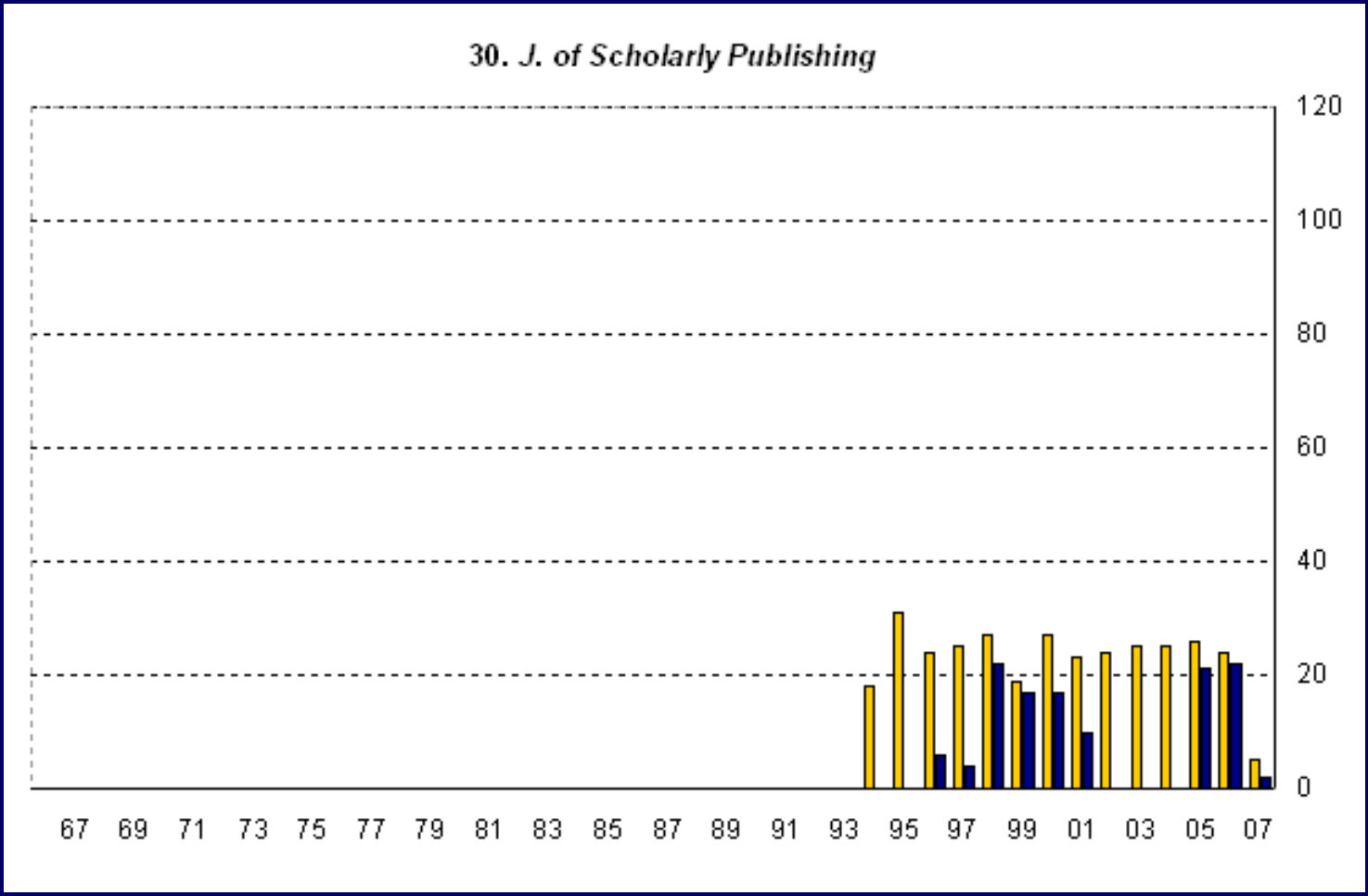
30. *JOURNAL OF SCHOLARLY PUBLISHING*



130-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

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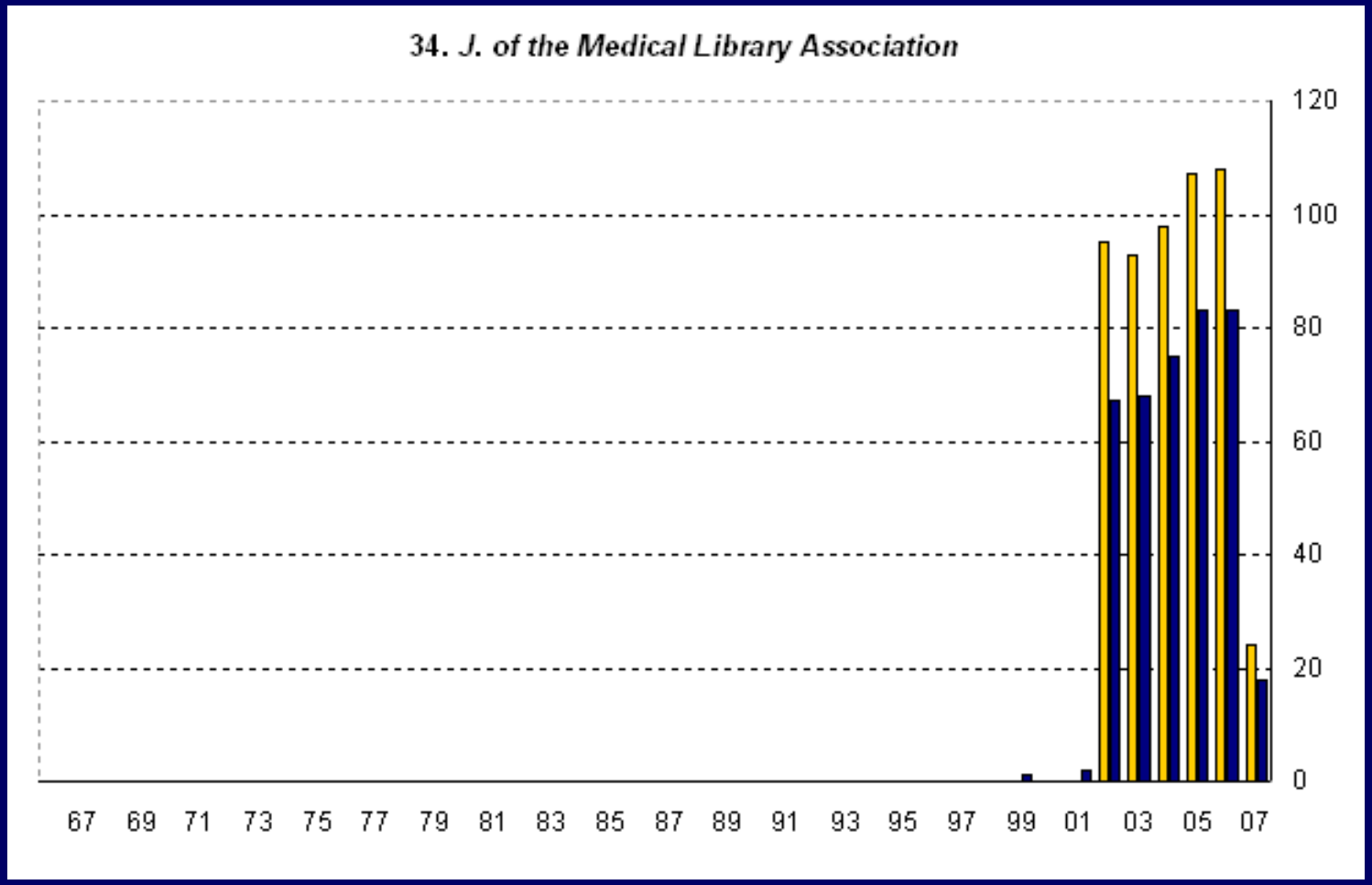
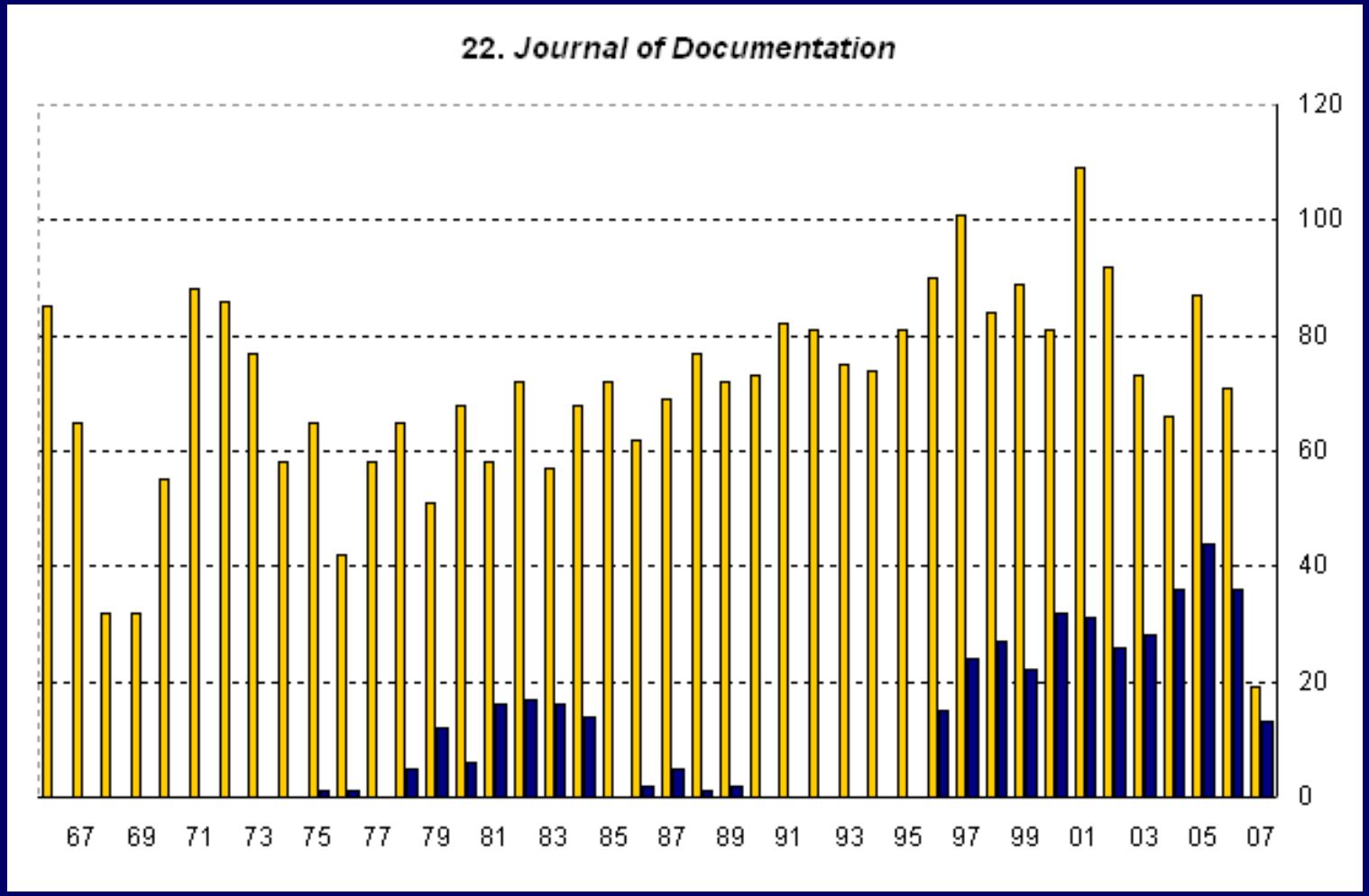
34. JOURNAL OF THE MEDICAL LIBRARY ASSOCIATION



22. JOURNAL OF DOCUMENTATION



122-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

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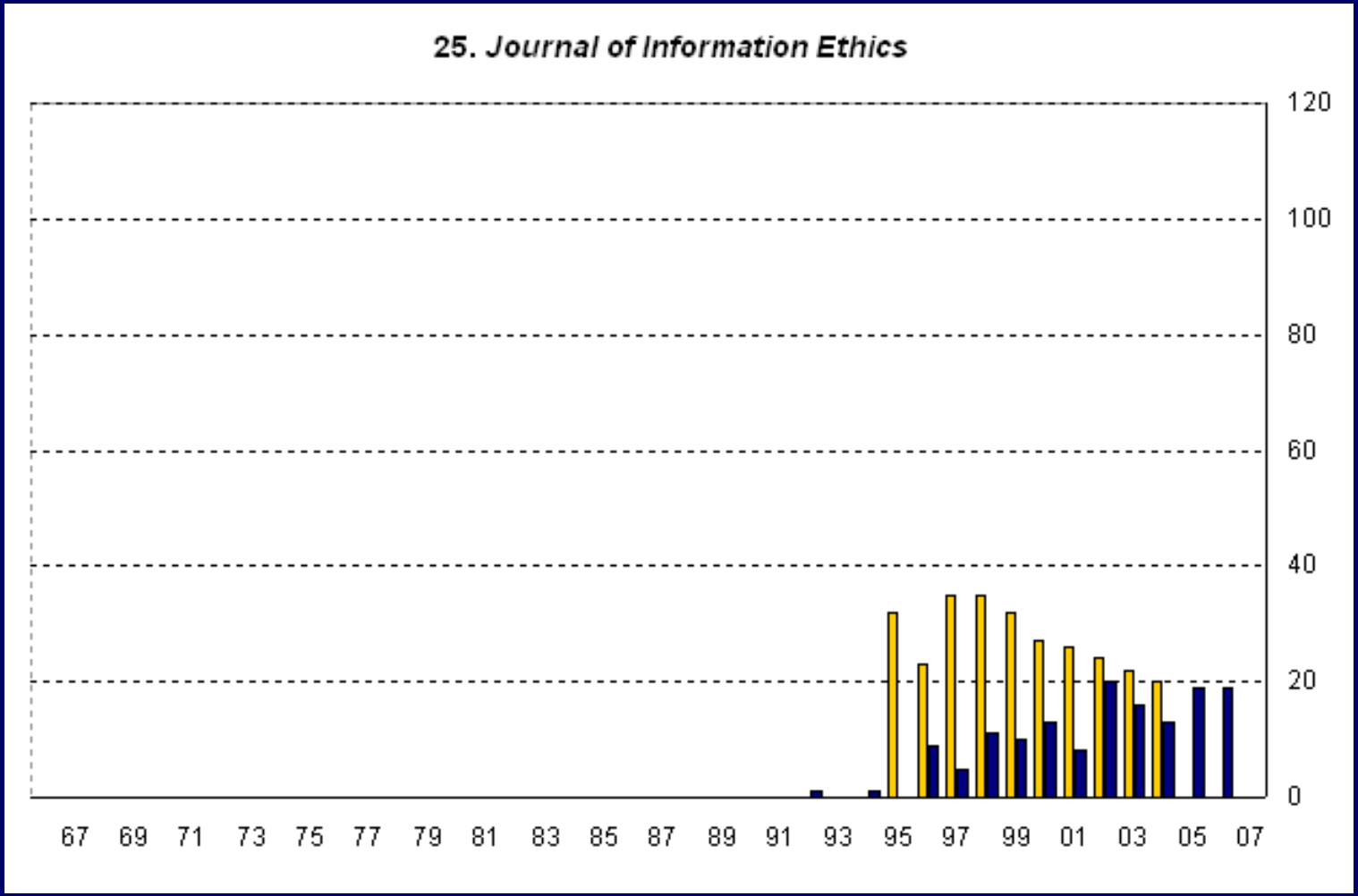
25. JOURNAL OF INFORMATION ETHICS



125-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

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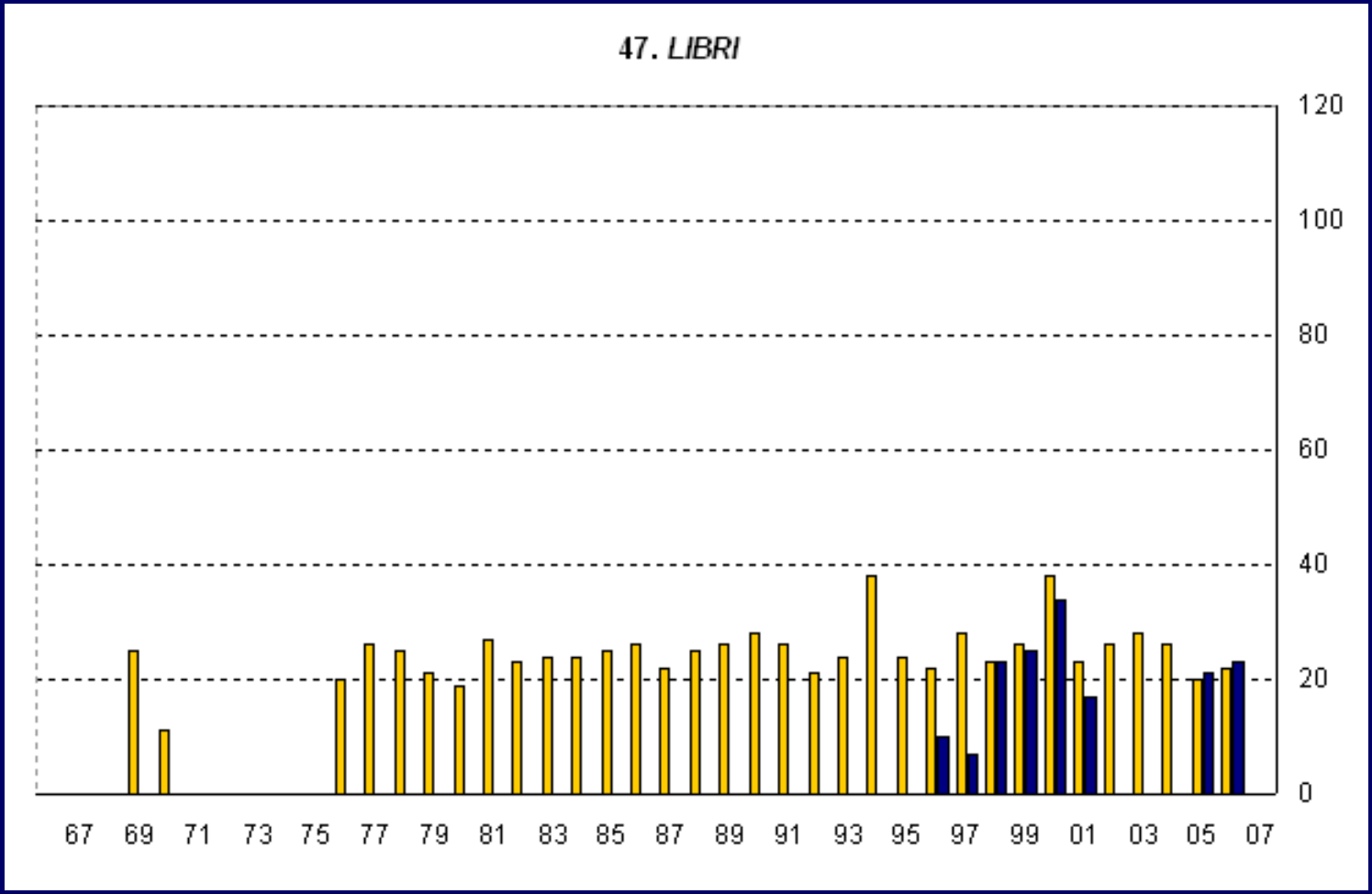
47. *LIBRI*



147-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

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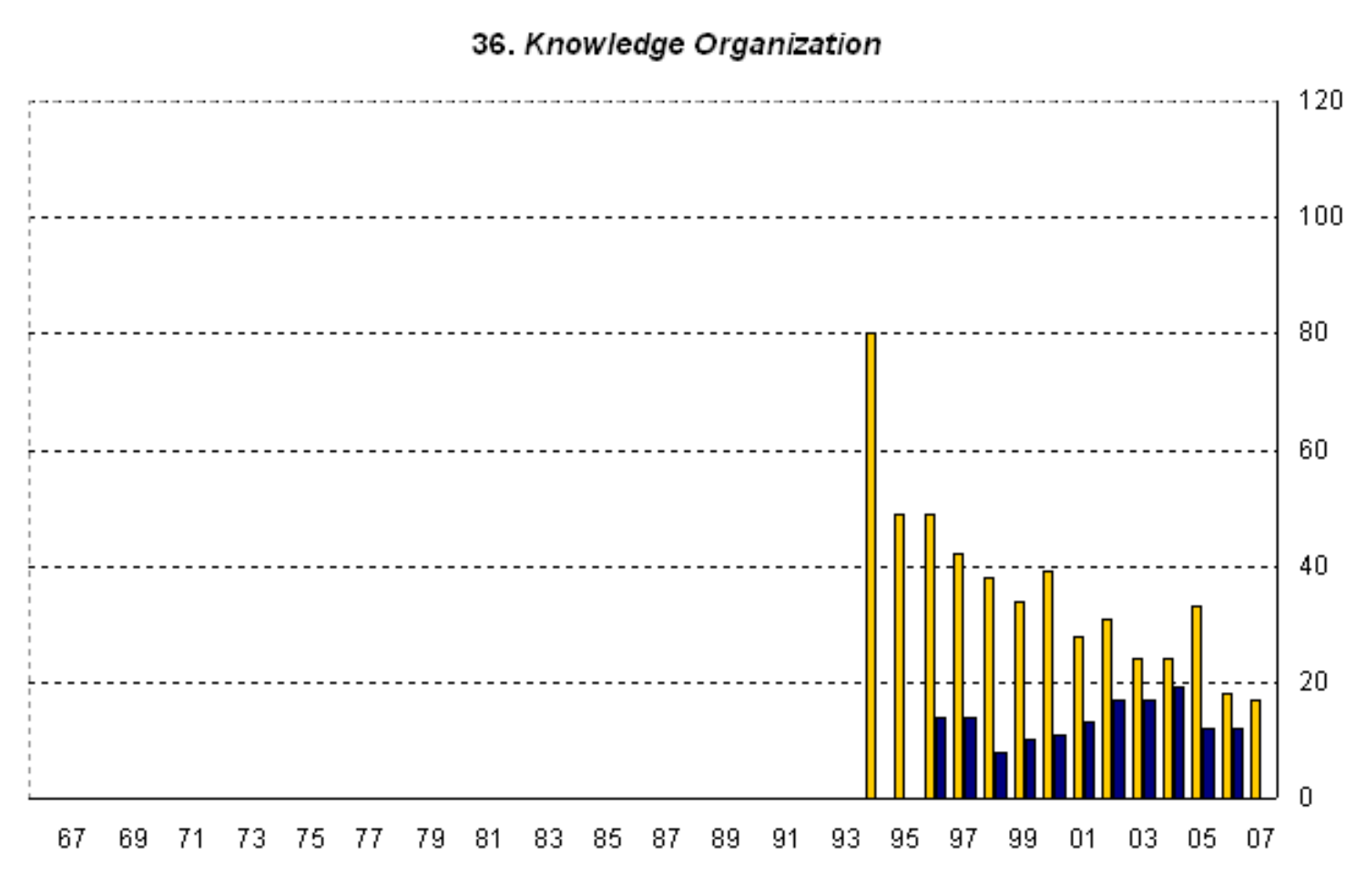
36. *KNOWLEDGE ORGANIZATION*



136-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

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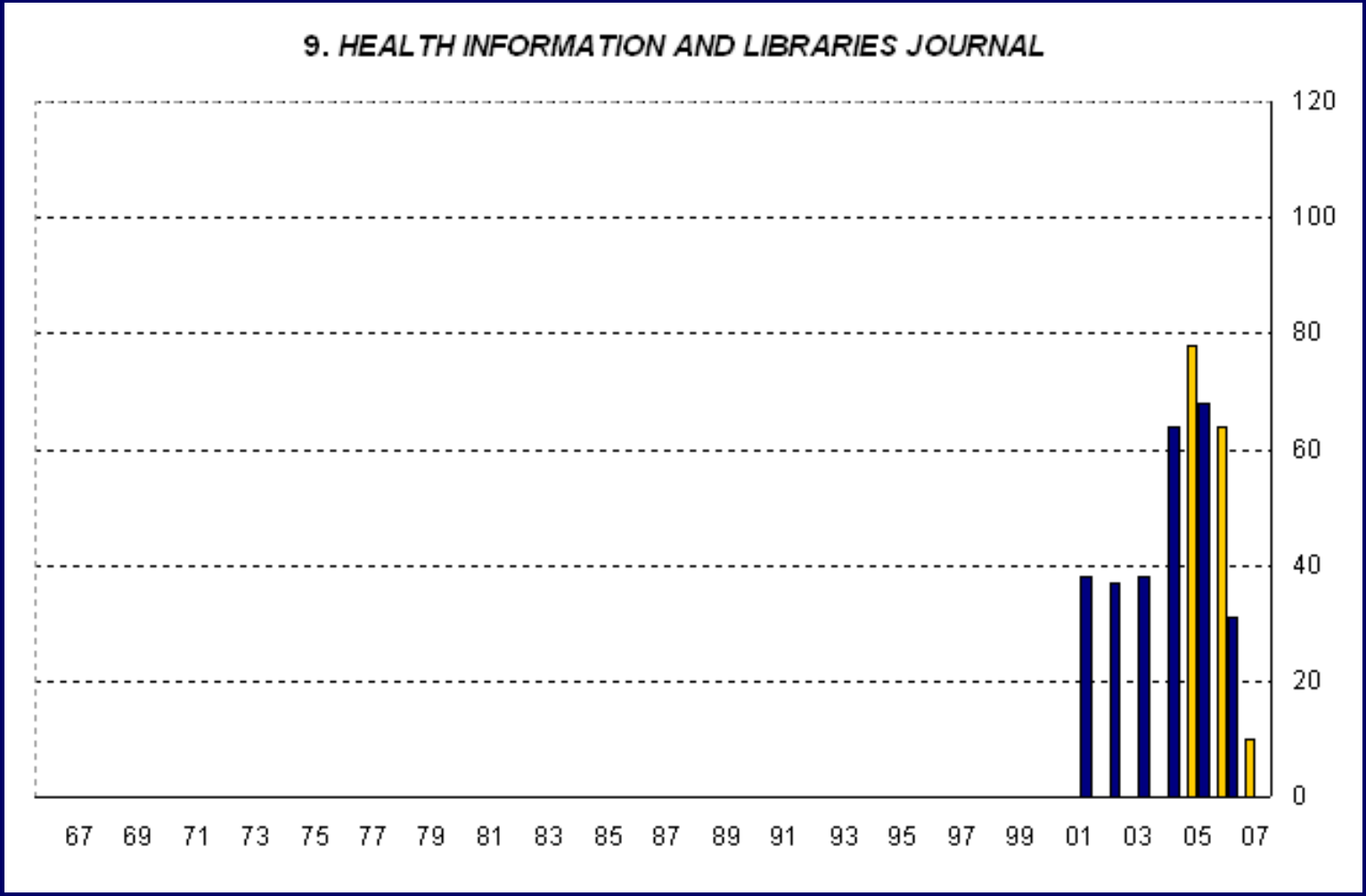
9. *HEALTH INFORMATION AND LIBRARIES JOURNAL*



109-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

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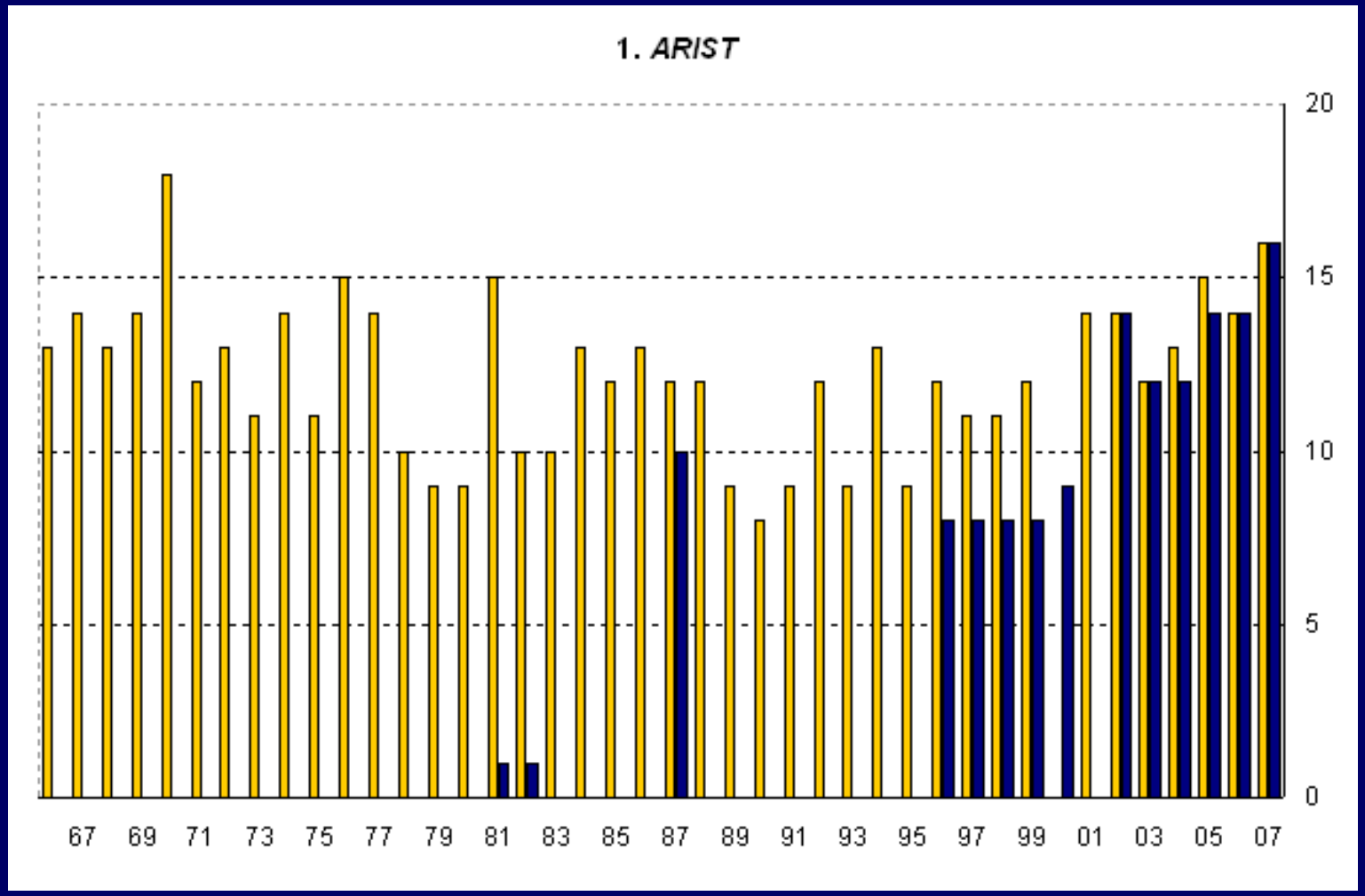
1. *ARIST*



101-a-LISA-LISTA...../yr-scopus-wos-jn-egyenkent

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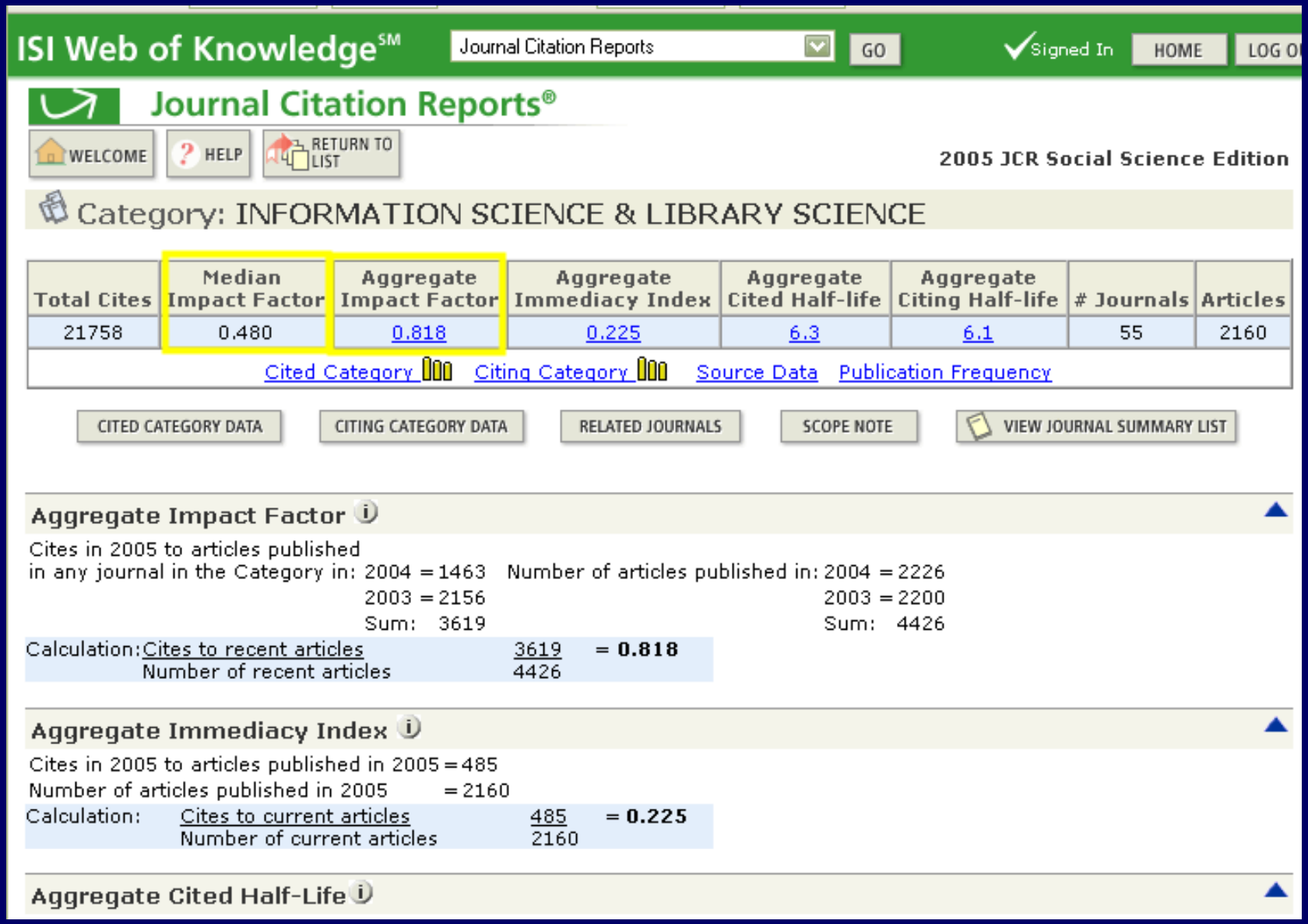
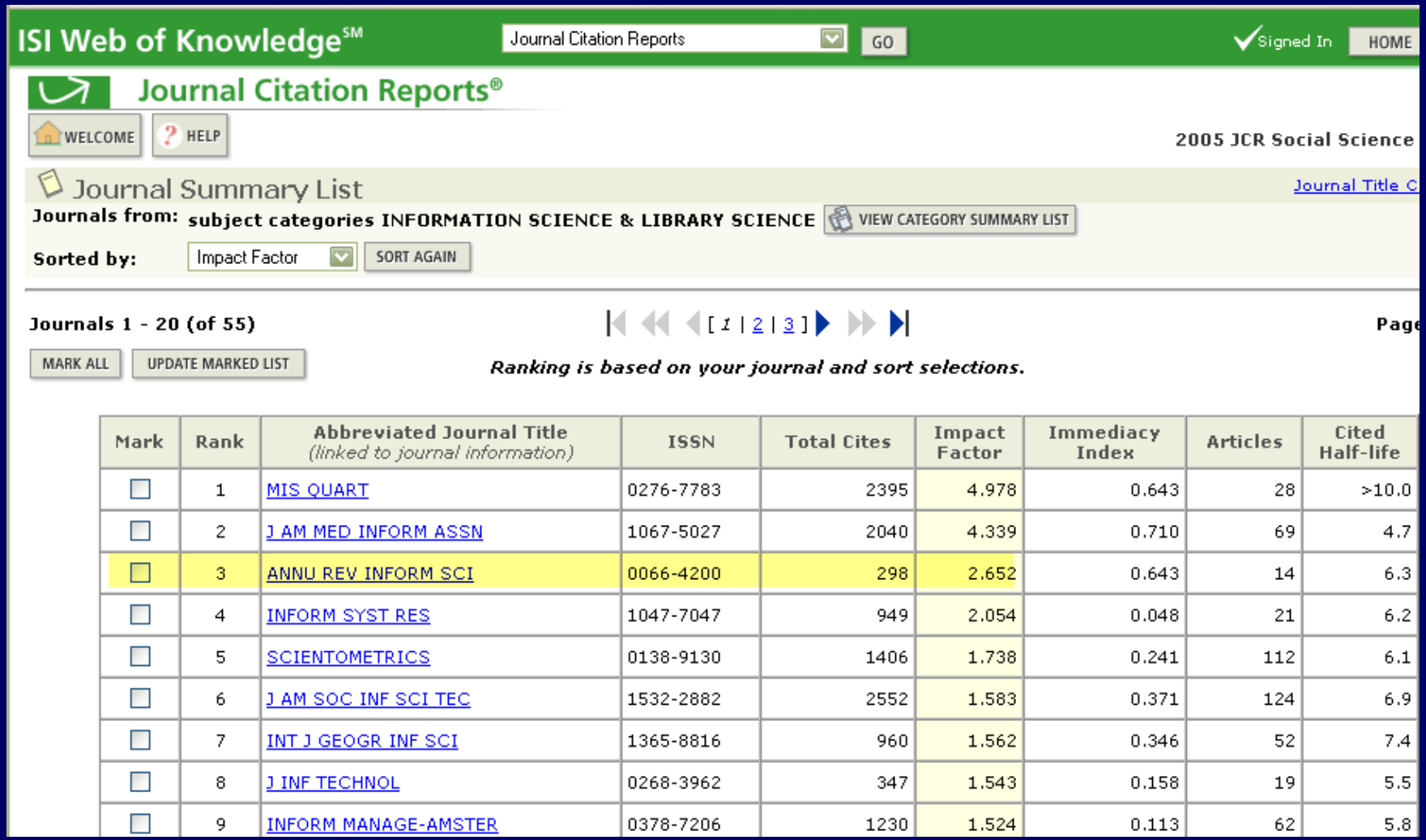
The Information & Library Science subject field



The position and clout of ARIST



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Journals 1 - 20 (of 55) [1 | 2 | 3] Page

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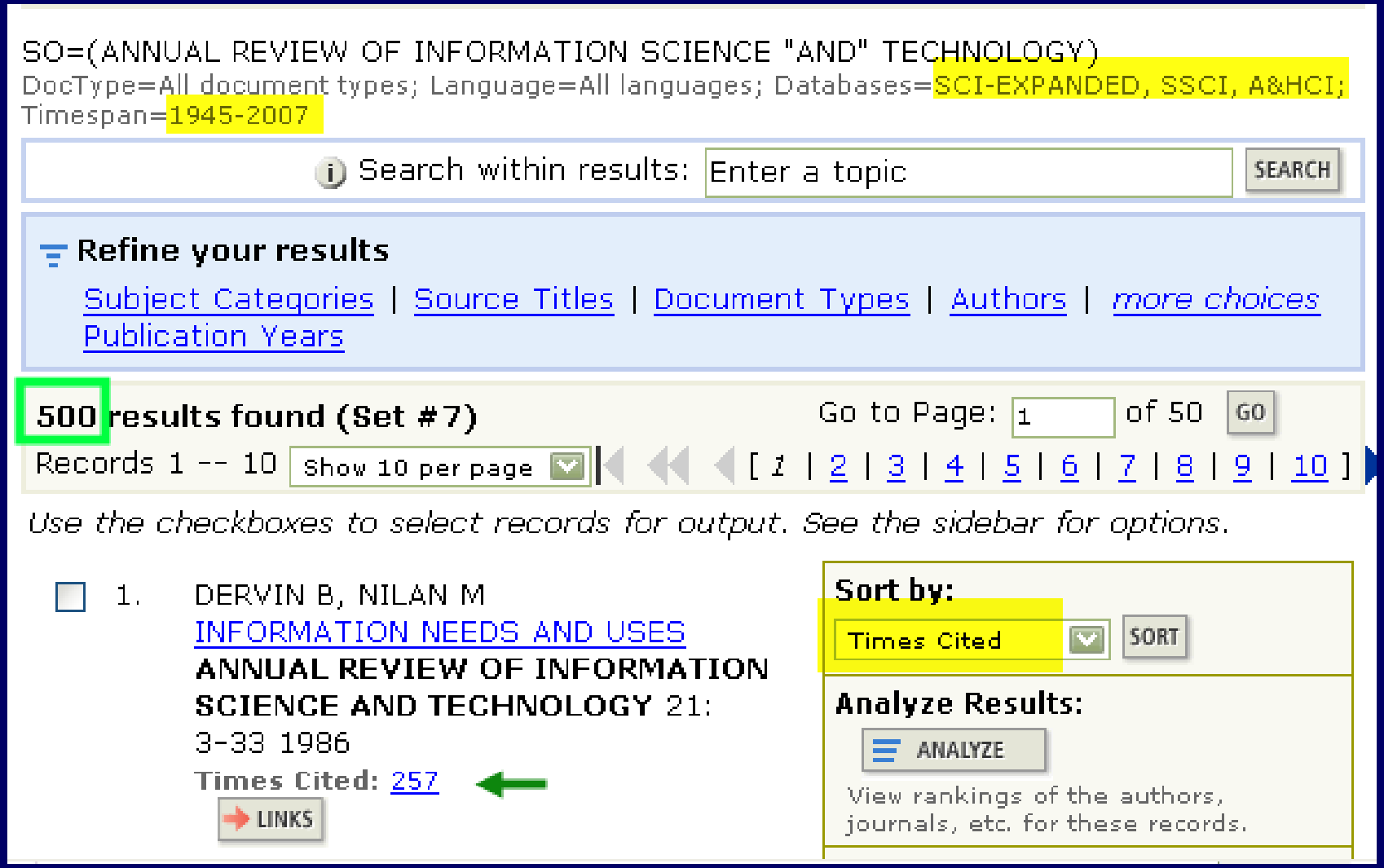
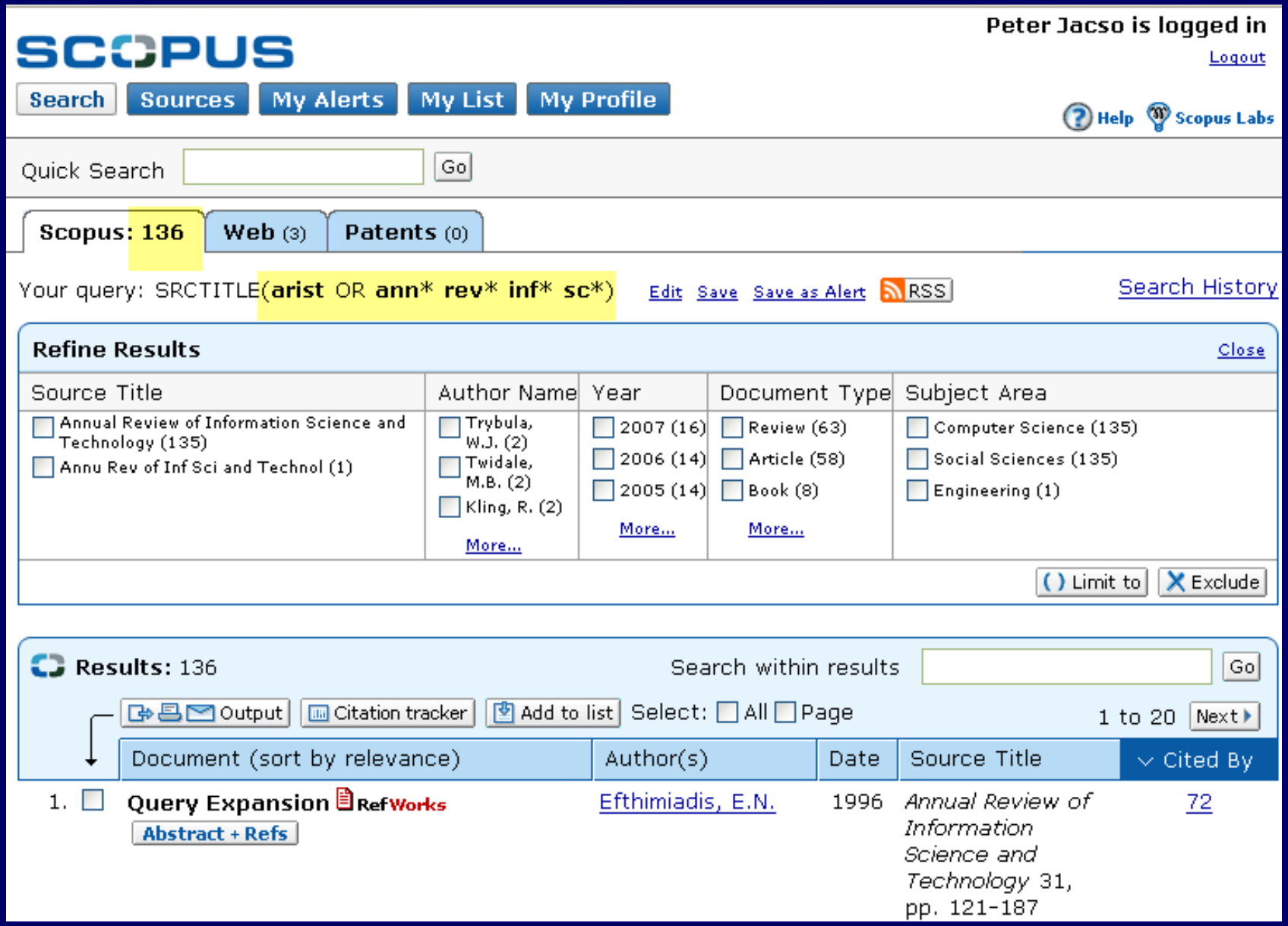
Ranking is based on your journal and sort selections.

Mark	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	Total Cites	Impact Factor	Immediacy Index	Articles	Cited Half-life
☐	1	MIS QUART	0276-7783	2395	4.978	0.643	28	>10.0
☐	2	J AM MED INFORM ASSN	1067-5027	2040	4.339	0.710	69	4.7
☐	3	ANNU REV INFORM SCI	0066-4200	298	2.652	0.643	14	6.3
☐	4	INFORM SYST RES	1047-7047	949	2.054	0.048	21	6.2
☐	5	SCIENTOMETRICS	0138-9130	1406	1.738	0.241	112	6.1
☐	6	J AM SOC INF SCI TEC	1532-2882	2552	1.583	0.371	124	6.9
☐	7	INT J GEOGR INF SCI	1365-8816	960	1.562	0.346	52	7.4
☐	8	J INF TECHNOL	0268-3962	347	1.543	0.158	19	5.5
☐	9	INFORM MANAGE-AMSTER	0378-7206	1230	1.524	0.113	62	5.8

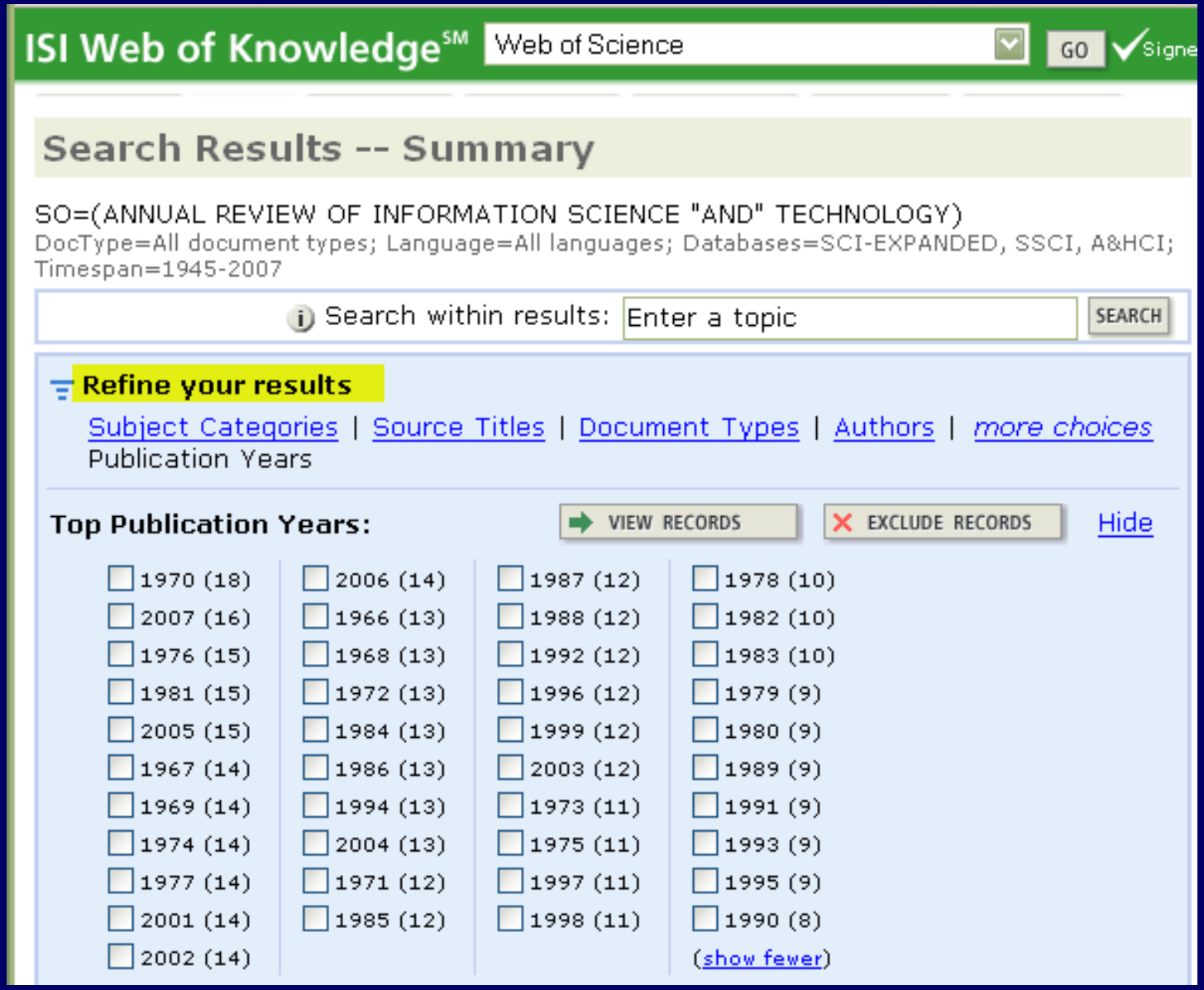
500 records for ARIST in WoS



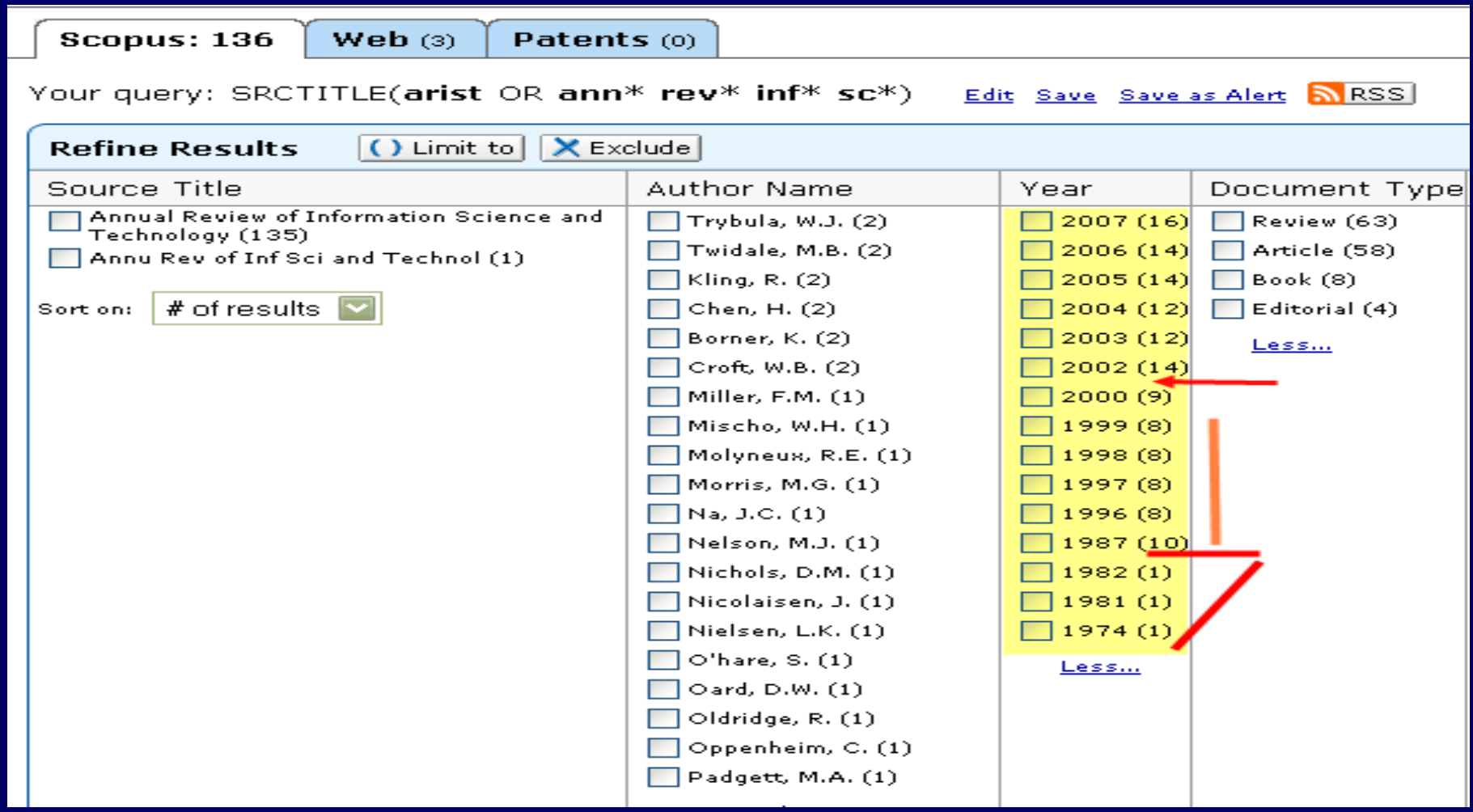
136 records for ARIST in Scopus



At a glance view of yearly uptake in WoS



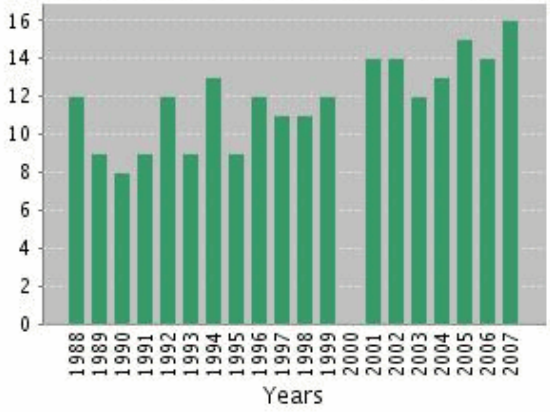
At a glance view of yearly uptake in Scopus



ARIST Performance Indicators -

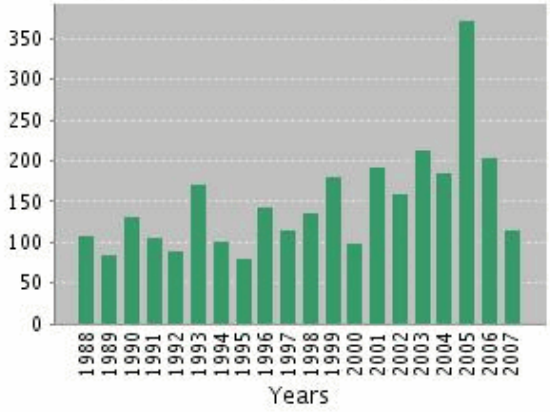
SO=(ann* rev* inf* sci*)
DocType=All document types; Language=All languages; Databases=SCI-EXPANDED, SSCI, A&HCI; Timespan=1945-2007

Published Items in Each Year



Only the first 20 years are displayed.
View a graph with all years.

Citations in Each Year



Only the first 20 years are displayed.
View a graph with all years.

Results found:	**500**
Sum of the Times Cited (i) **:**	**4,033** View / View without self-citations
Average Citations per Item (i) **:**	**8.07**
h-index (i) **:**	**27**

Records 1 **to** 10 PRINT E-MAIL SAVE

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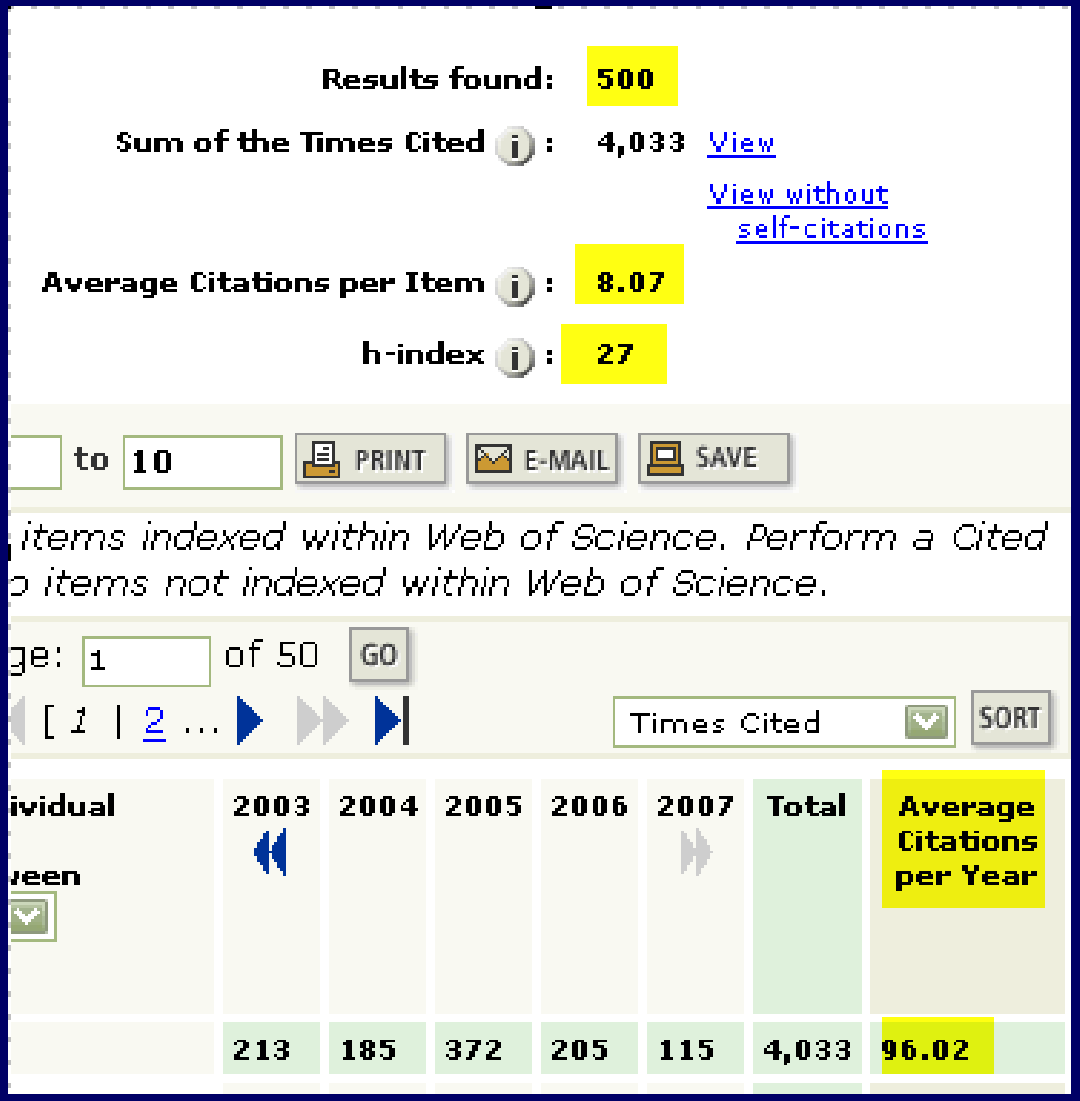
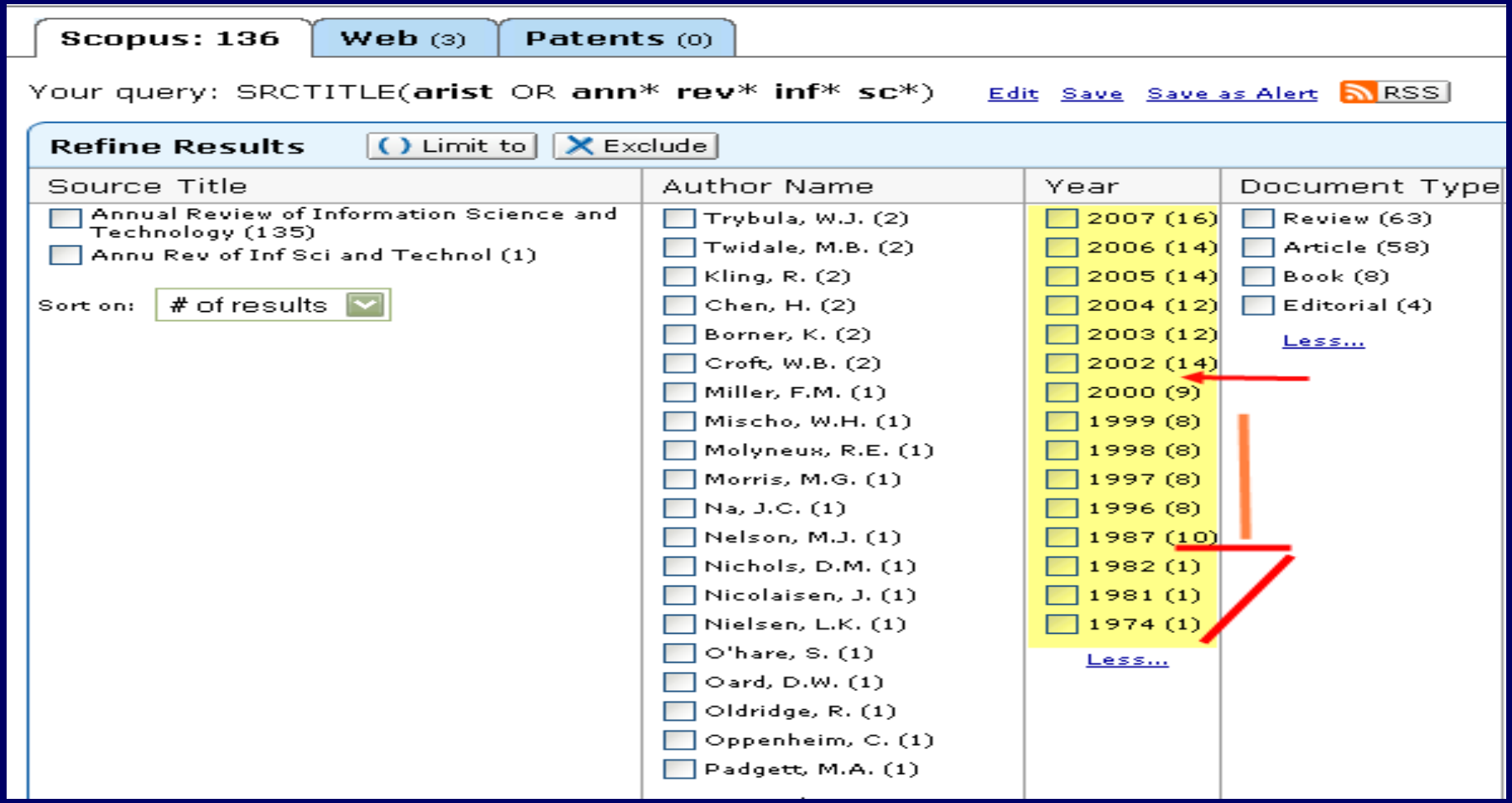
2003	2004	2005	2006	2007	Total	Average Citations per Year
213	185	372	205	115	4,033	96.02

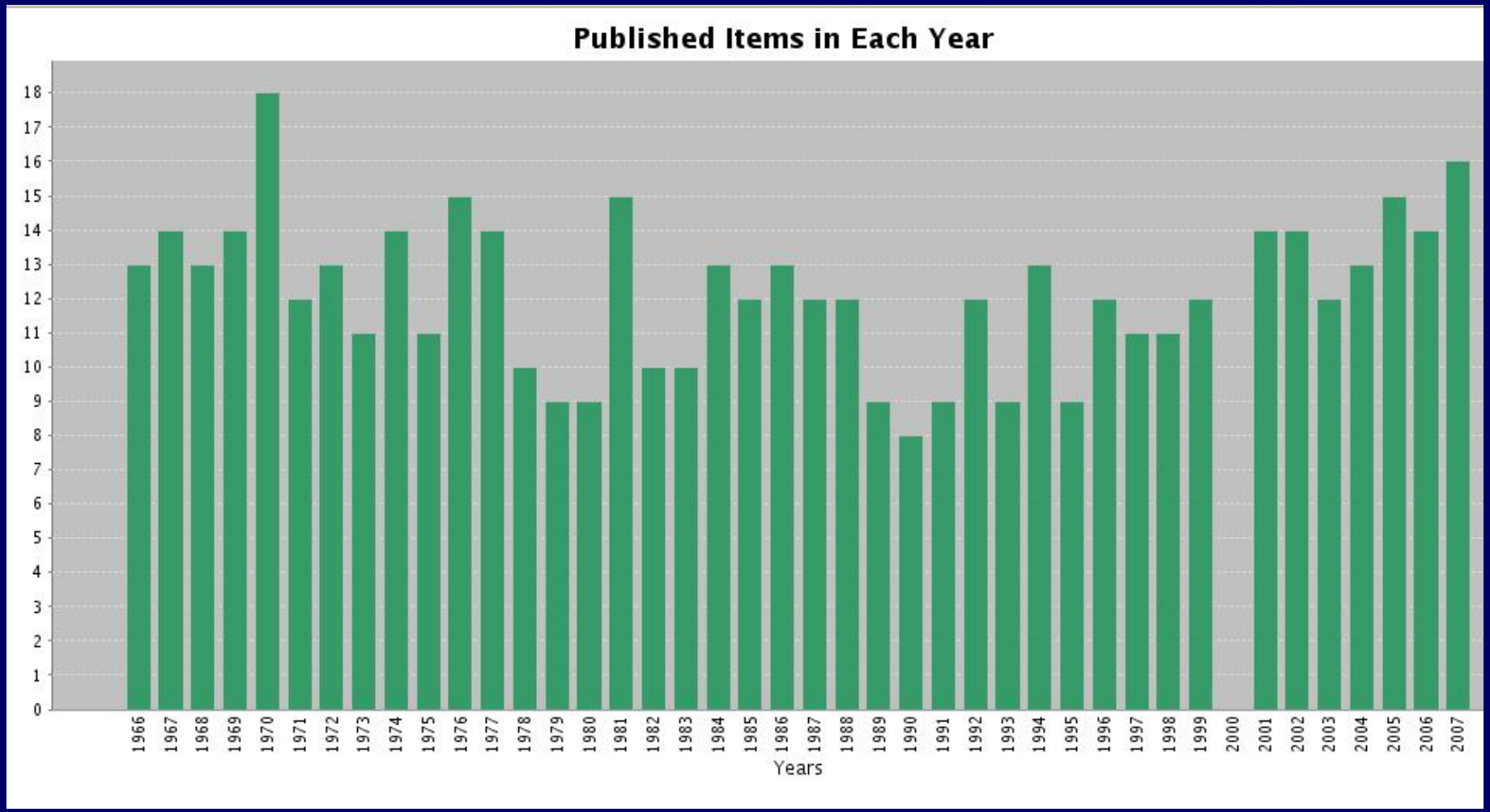
- *ARIST* Performance Indicators



Records per year for *ARIST* in Scopus



Records per year for *ARIST* WoS



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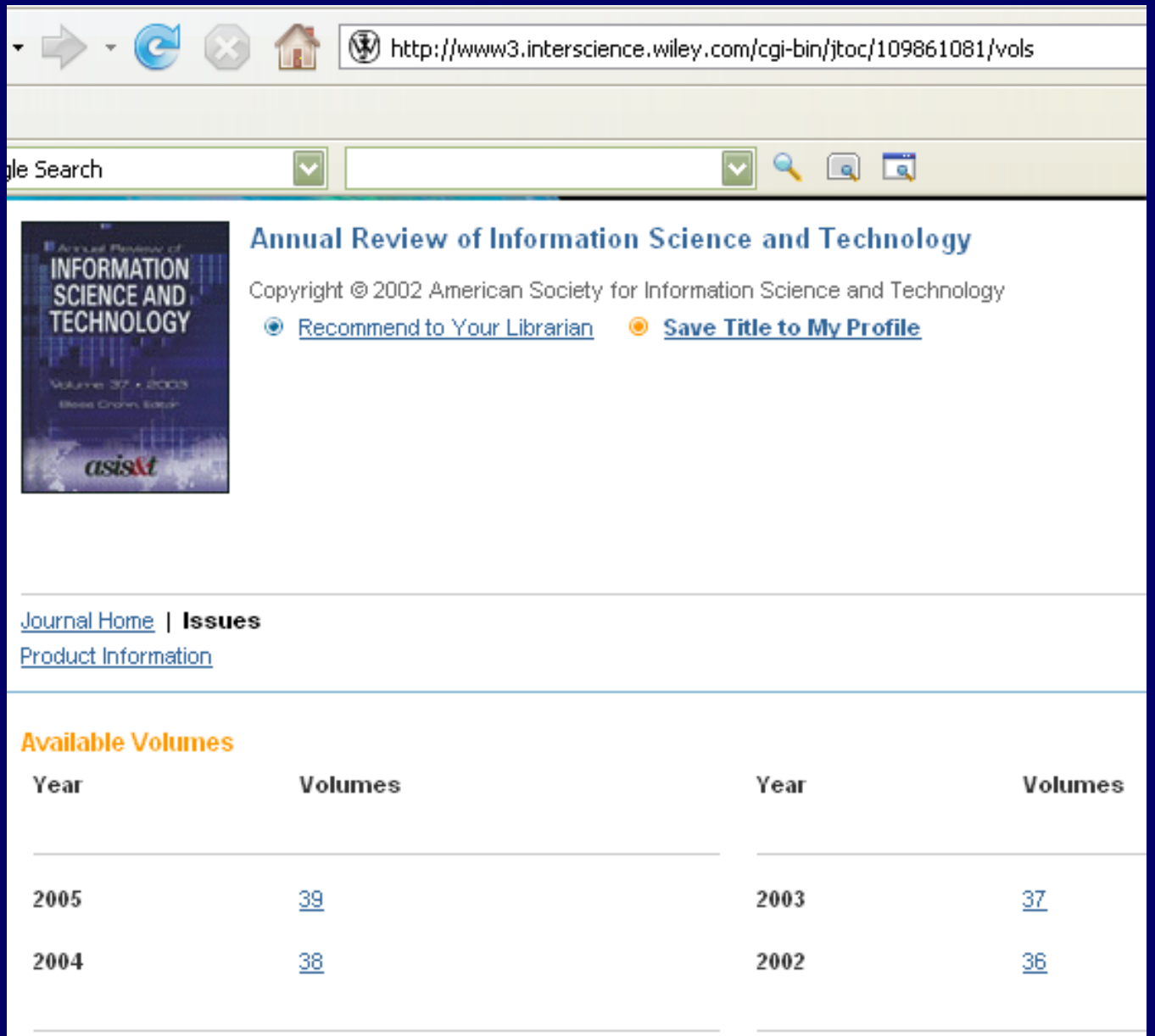
Look what Wiley has for *ARIST* in 2007



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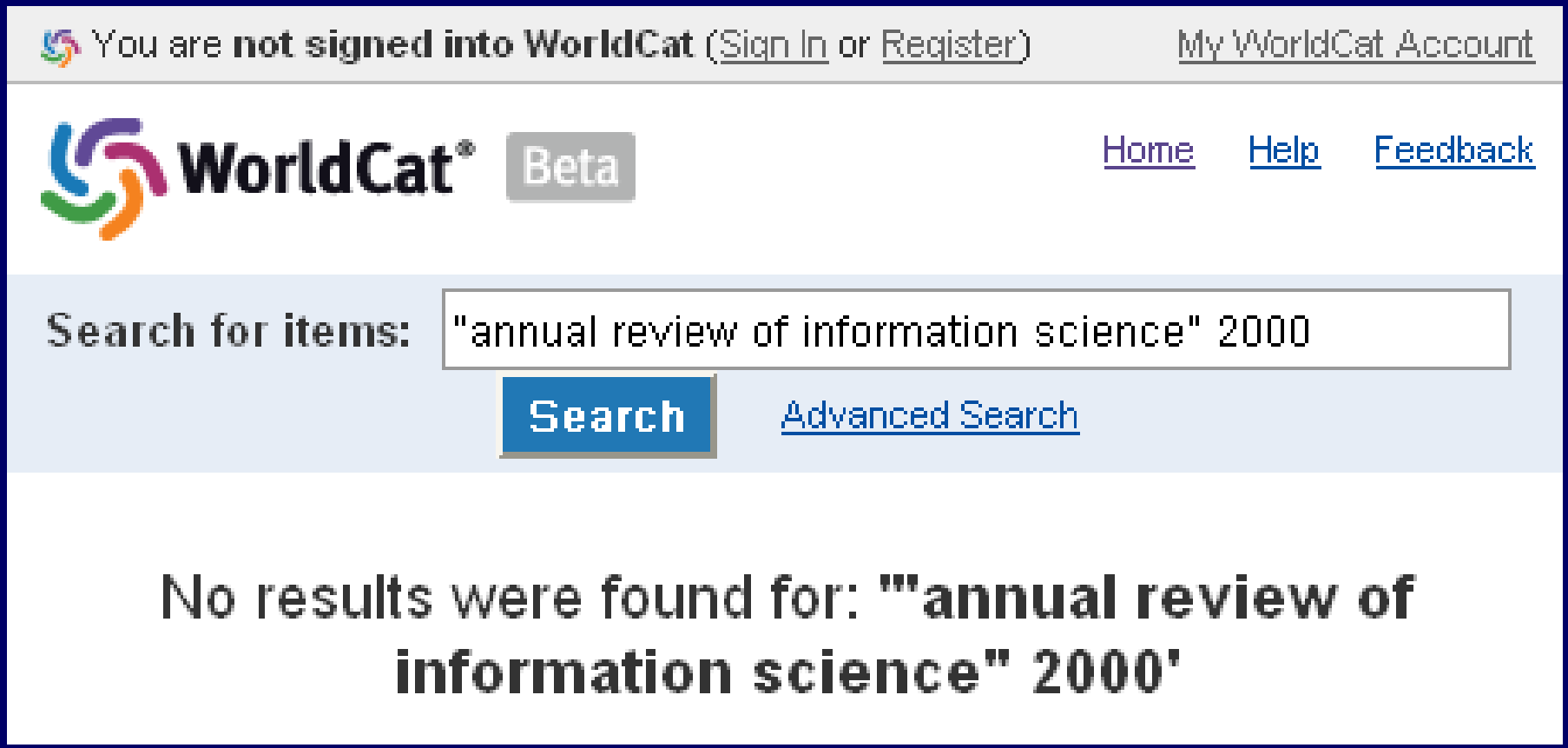
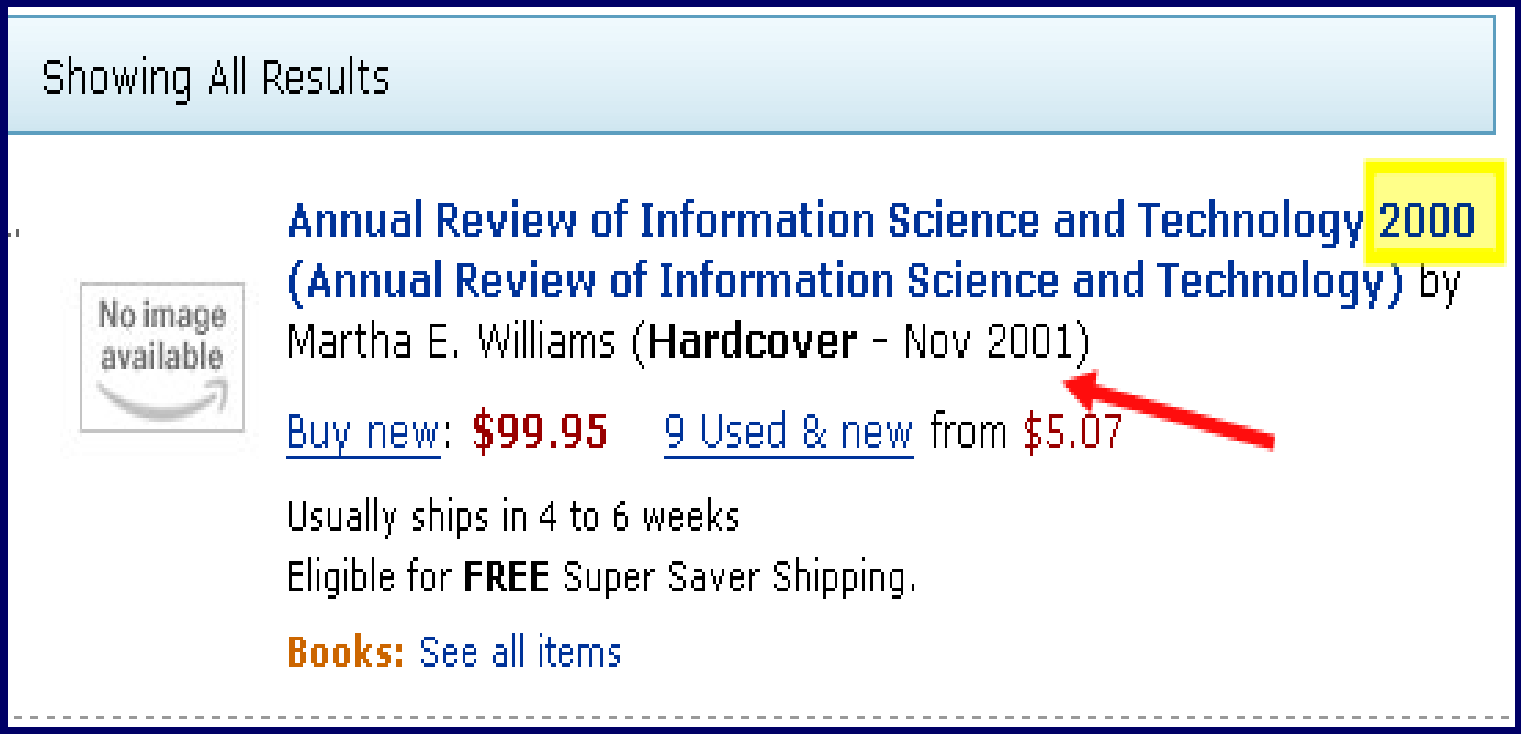
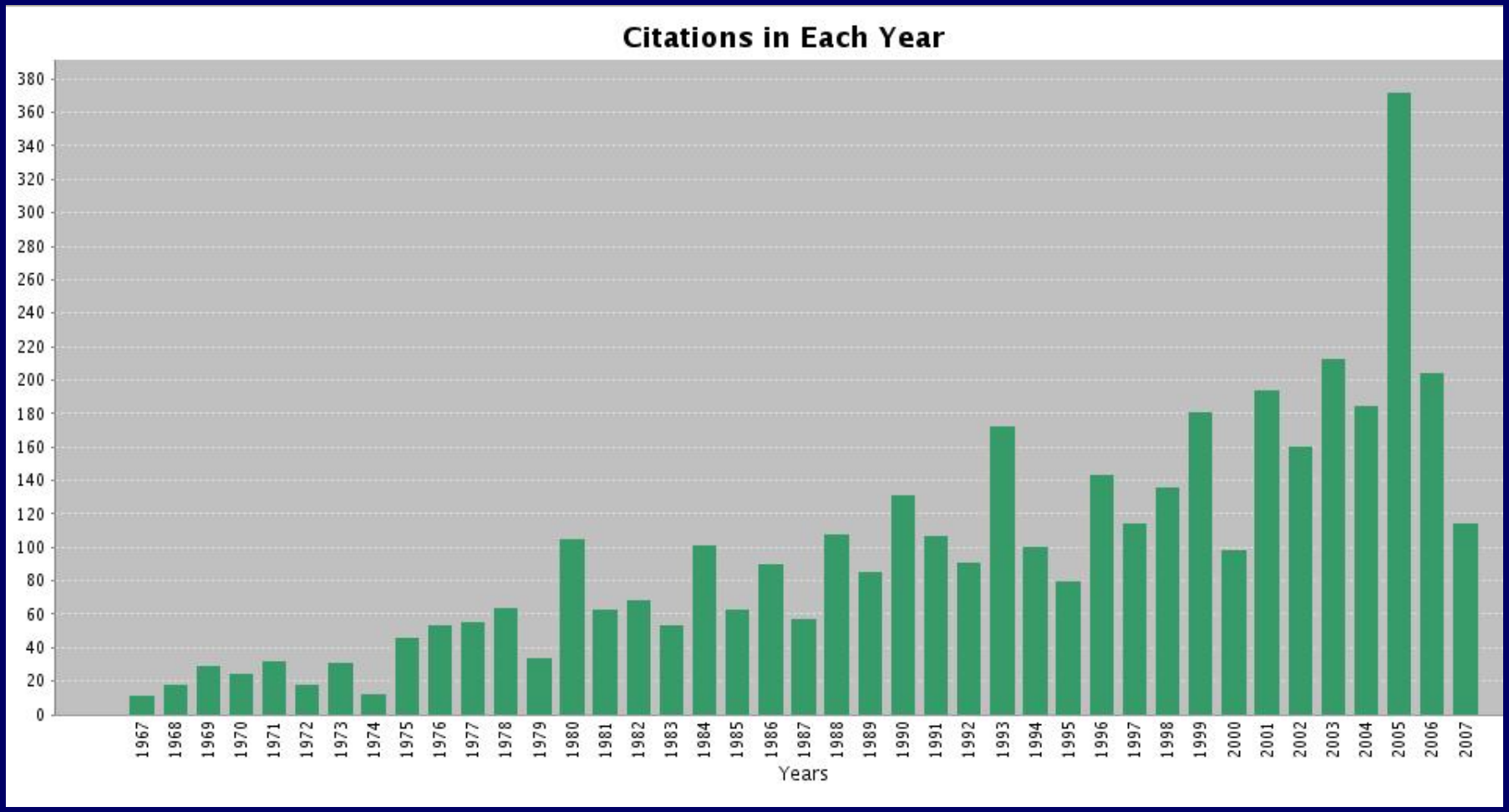
The bane of *ARIST* 2000



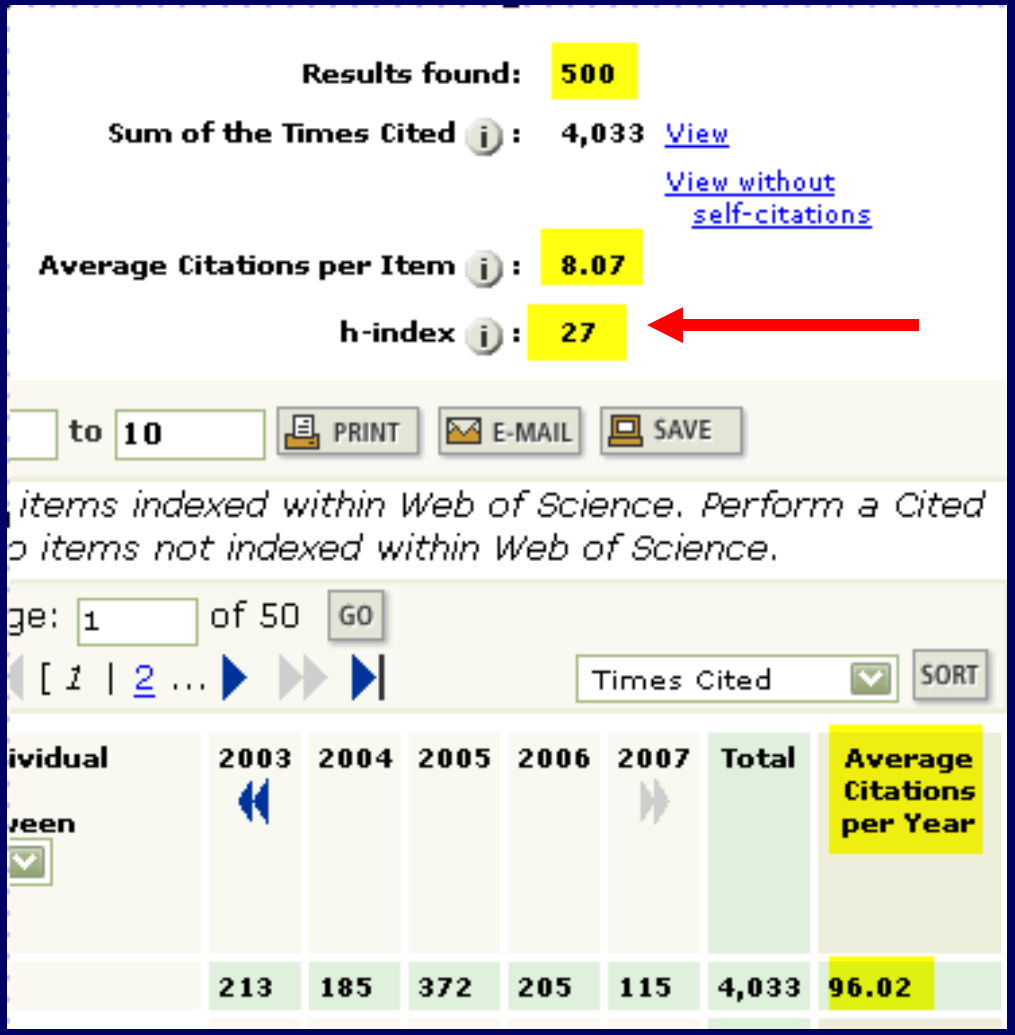
The bane of *ARIST* 2000



Citations per year for *ARIST*



A*RIST* Performance Indicators



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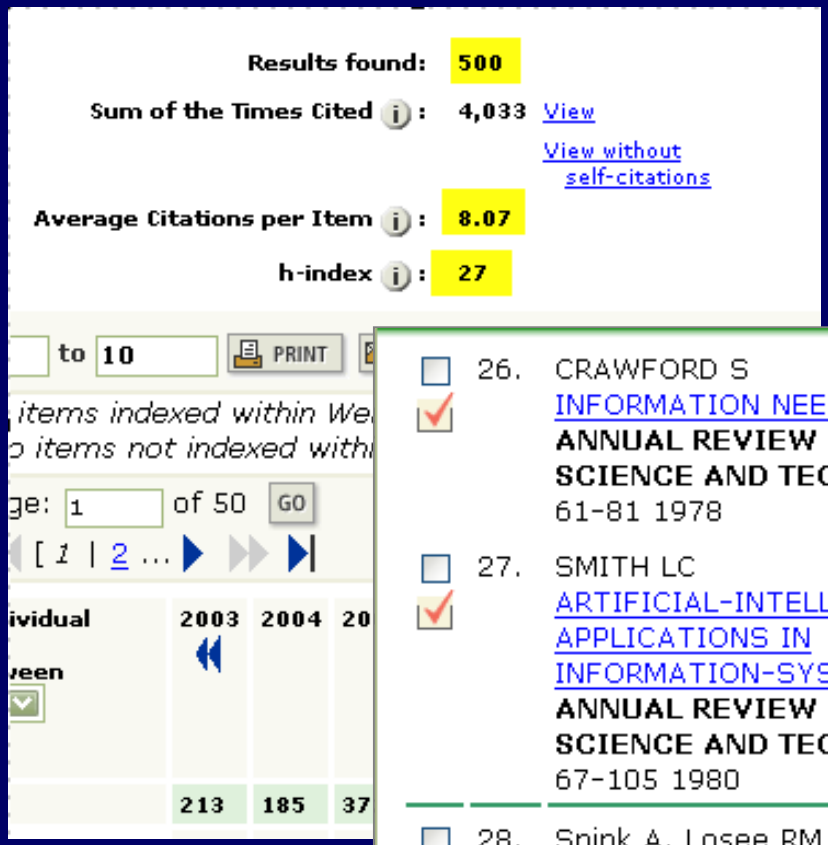
The H(irsch)-index



Results found: 500

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Average Citations per Item : 8.07

h-index : 27

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ividual	2003	2004	20
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	213	185	37

26.	CRAWFORD S INFORMATION NEEDS AND USES **ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY** 13: 61-81 1978	0	0	1	0	1	30	1.00
27.	SMITH LC ARTIFICIAL-INTELLIGENCE APPLICATIONS IN INFORMATION-SYSTEMS **ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY** 15: 67-105 1980	0	0	0	0	1	29	1.04
28.	Spink A, Losee RM Feedback in information retrieval **ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY** 31: 33-78 1996	2	0	0	0	0	27	2.25
29.	ALLEN TJ INFORMATION NEEDS AND USES **ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY** 4: 3-29 1969	0	0	2	1	1	27	0.69

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26.	CRAWFORD S INFORMATION NEEDS AND USES **ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY** 13: 61-81 1978	0	0	1	0	1	30	1.00
27.	SMITH LC ARTIFICIAL-INTELLIGENCE APPLICATIONS IN INFORMATION-SYSTEMS **ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY** 15: 67-105 1980	0	0	0	0	1	29	1.04
28.	Spink A, Losee RM Feedback in information retrieval **ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY** 31: 33-78 1996	2	0	0	0	0	27	2.25
29.	ALLEN TJ INFORMATION **ANNUAL REVI** **SCIENCE AND** 1969							

h-index*

The h-index is indicated by a green horizontal line. The number of items above this line, which is *h*, have at least *h* citations. For example, an h-index of 20 means that there are 20 items that have 20 citations or more.

This metric is useful because it discounts the disproportionate weight of highly cited papers or papers that have not yet been cited. For example, for this set of five records, the average citations per item is 12.20 (61 total citations divided by 5 cited items), but the h-index is 2.

		2002	2003	2004	2005	2006	Total	Average Citations Per Year
		15	15	13	9	7	61	30.50
1.	Delauney F, Thisse C, marchand O, et al. An inherited functional circadian clock in zebrafish embryos SCIENCE 289 (5477): 297-300 JUL 14 2000	10	9	3	3	3	30	4.29
2.	Prince VE, Holley SA, Bally-cuif L, et al. Zebrafish lunatic fringe demarcates segmental boundaries MECHANISMS OF DEVELOPMENT 105 (1-2): 175-180 JUL 2001	5	6	10	5	3	29	4.83
3.	Oehlmann VD, Berger S, Sterner C, et. Zebrafish beta tubulin 1 expression is limited to the nervous system throughout development, and in the adult brain is restricted to a subset of proliferative regions GENE EXPRESSION PATTERNS 4 (2): 191-198 MAR 2004			0	1	1	2	0.67
4.	Park HC, Boyce J, Shin J, et al. Oigodendrocyte specification in zebrafish requires Notch-regulated cyclin-dependent kinase inhibitor function JOURNAL OF NEUROSCIENCE 25 (29): 6836-6844 JUL 20 2005				0	0	0	0.00
5.	Ben J, Jabs EW, Chong SS Genomic cDNA and embryonic expression analysis of zebrafish IRF6, the gene mutated in the human oral clefting disorders Van der Woude and popliteal pterygium syndromes GENE EXPRESSION PATTERNS 5 (5): 629-638 JUN 2005				0	0	0	0.00

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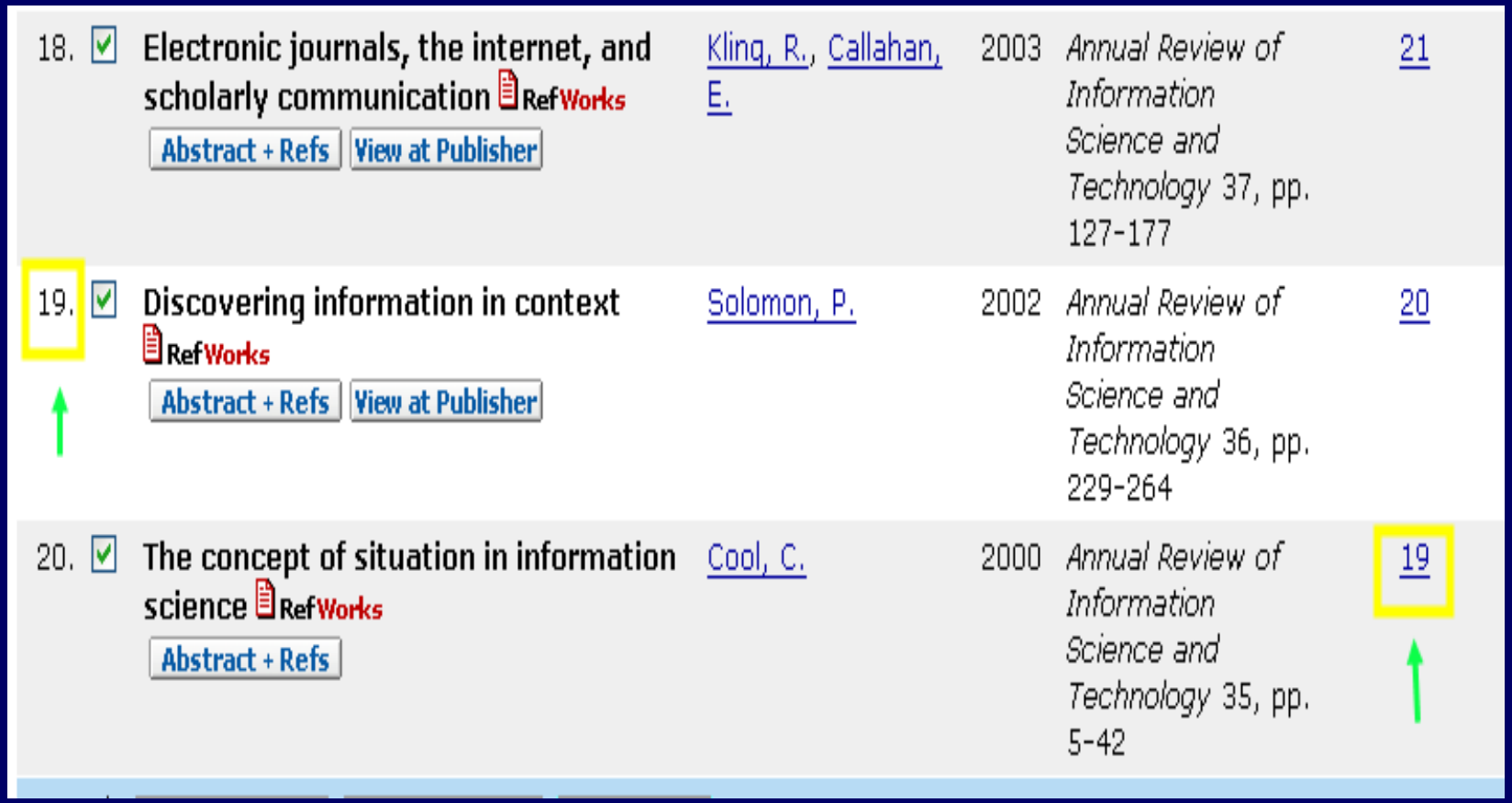
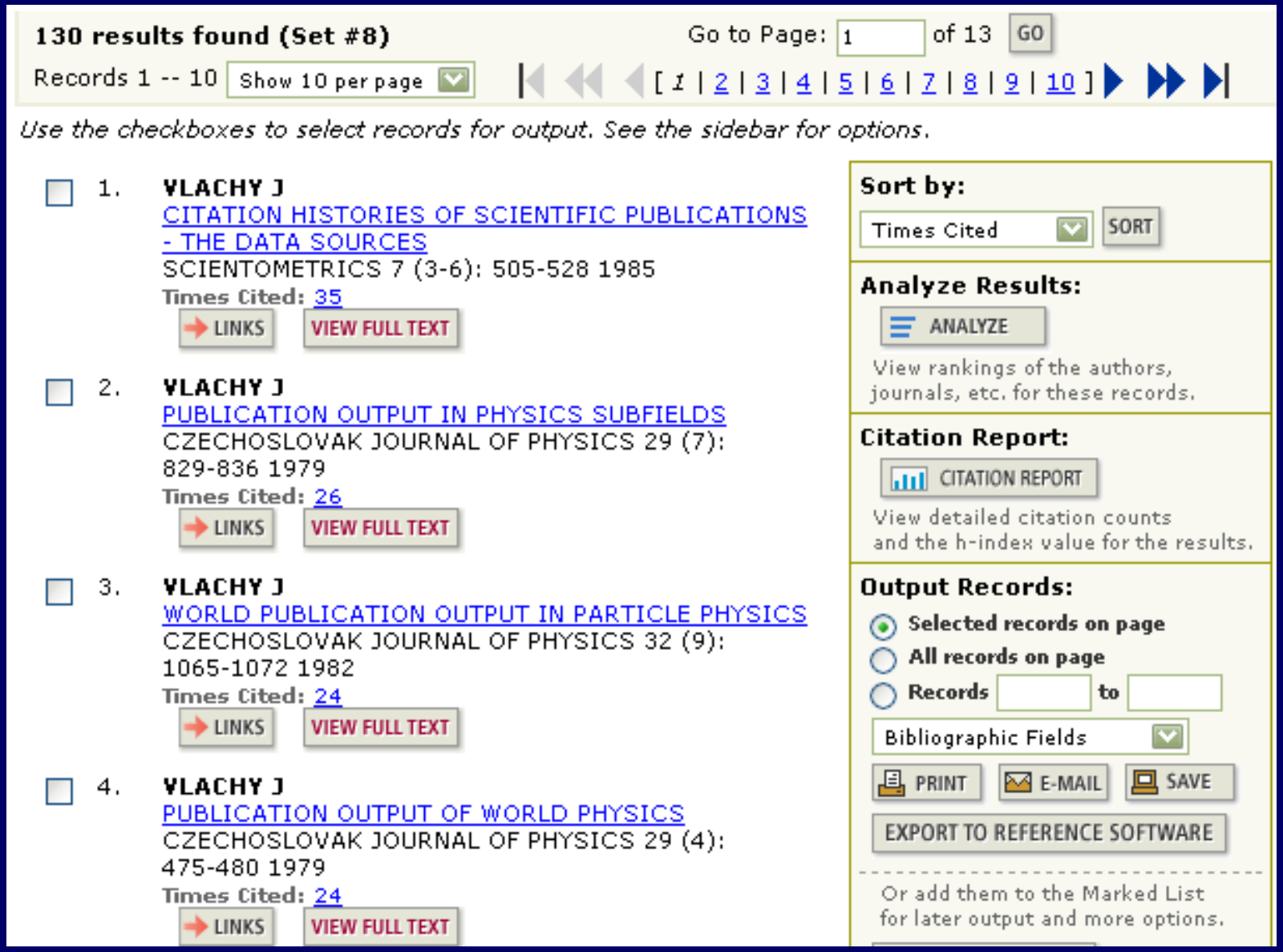
Checking the H(irsch)-index in Scopus



18.	Electronic journals, the internet, and scholarly communication RefWorks Abstract + Refs View at Publisher	Kling, R., Callahan, E.	2003	*Annual Review of Information Science and Technology* 37, pp. 127-177	21
19.	Discovering information in context RefWorks Abstract + Refs View at Publisher	Solomon, P.	2002	*Annual Review of Information Science and Technology* 36, pp. 229-264	20
20.	The concept of situation in information science RefWorks Abstract + Refs	Cool, C.	2000	*Annual Review of Information Science and Technology* 35, pp. 5-42	19

The H(irsch)-index for researchers



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Records 1 -- 10 Show 10 per page [1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10]

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1. **VLACHY J**
CITATION HISTORIES OF SCIENTIFIC PUBLICATIONS - THE DATA SOURCES
SCIENTOMETRICS 7 (3-6): 505-528 1985
Times Cited: 35
LINKS VIEW FULL TEXT

2. **VLACHY J**
PUBLICATION OUTPUT IN PHYSICS SUBFIELDS
CZECHOSLOVAK JOURNAL OF PHYSICS 29 (7): 829-836 1979
Times Cited: 26
LINKS VIEW FULL TEXT

3. **VLACHY J**
WORLD PUBLICATION OUTPUT IN PARTICLE PHYSICS
CZECHOSLOVAK JOURNAL OF PHYSICS 32 (9): 1065-1072 1982
Times Cited: 24
LINKS VIEW FULL TEXT

4. **VLACHY J**
PUBLICATION OUTPUT OF WORLD PHYSICS
CZECHOSLOVAK JOURNAL OF PHYSICS 29 (4): 475-480 1979
Times Cited: 24
LINKS VIEW FULL TEXT

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View rankings of the authors, journals, etc. for these records.

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View detailed citation counts and the h-index value for the results.

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☐	14.	**VLACHY J** PUBLICATION OUTPUT OF EUROPEAN PHYSICS CZECHOSLOVAK JOURNAL OF PHYSICS 29 (2): 237-244 1979	0	0	0	0	0	19	0.66
☐	15.	**VLACHY J** WORLD PUBLICATION OUTPUT, RESEARCH FRONTS AND CITATION CLASSICS IN THE SPECIALTY OF MECHANICAL-PROPERTIES OF SOLIDS AND TREATMENT OF MATERIALS CZECHOSLOVAK JOURNAL OF PHYSICS 35 (3): 355-358 1985	0	0	0	0	0	18	0.78
☐	16.	**VLACHY J** SUCCESSIVE CITATION OF 350 OLDER PHYSICS PAPERS CZECHOSLOVAK JOURNAL OF PHYSICS 34 (4): 361-364 1984	0	0	0	0	0	17	0.71
☐	17.	**VLACHY J** SUCCESSIVE CITATION OF 1000 PHYSICS PAPERS CZECHOSLOVAK JOURNAL OF PHYSICS 33 (11): 1277-1288 1983	0	0	0	0	0	17	0.71
☐	18.	**VLACHY J** WORLD PHYSICS PUBLICATION OUTPUT - COUNTRY DISTRIBUTIONS AND TRENDS CZECHOSLOVAK JOURNAL OF PHYSICS 35 (6): 705-708 1985	0	0	0	0	0	15	0.65

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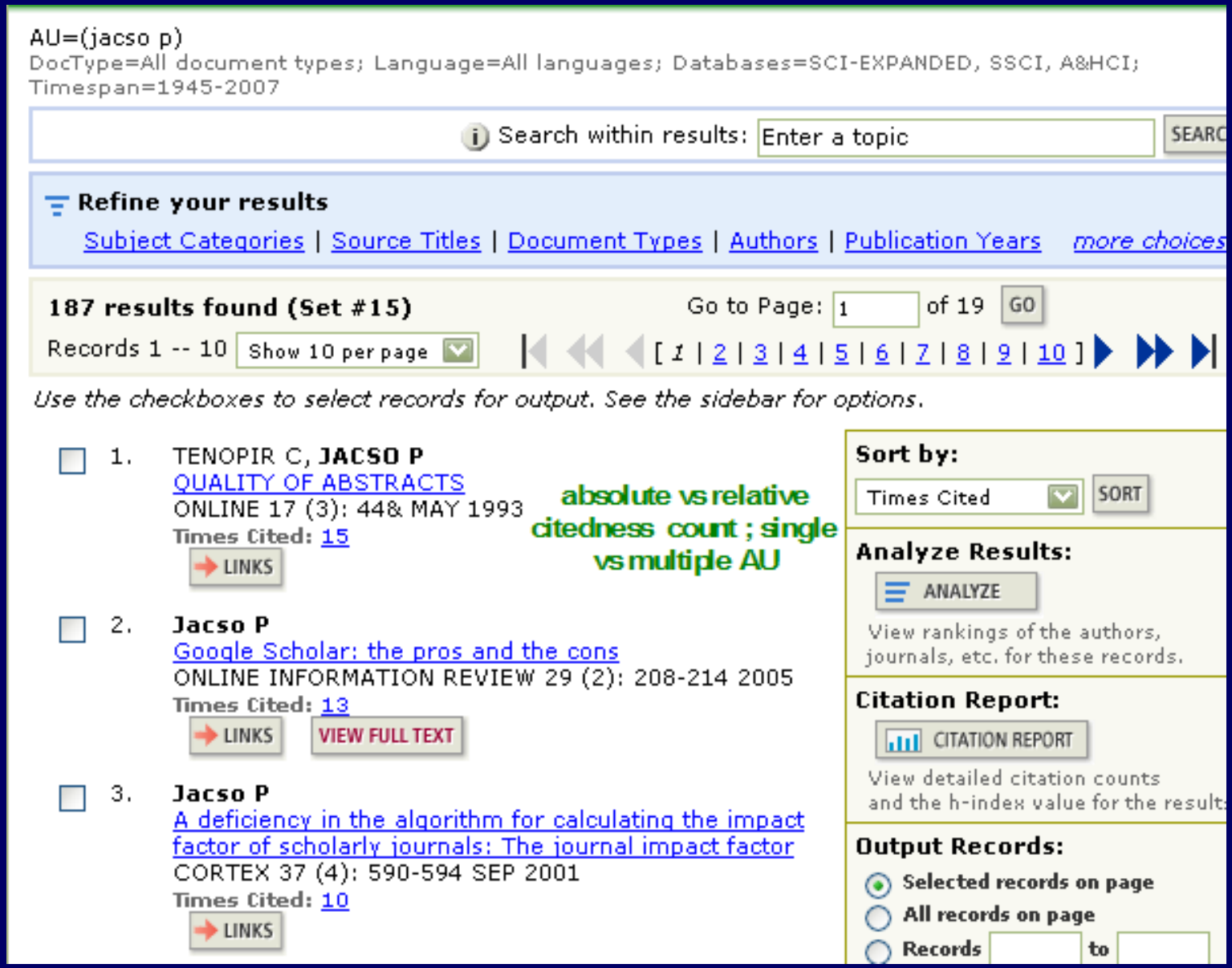
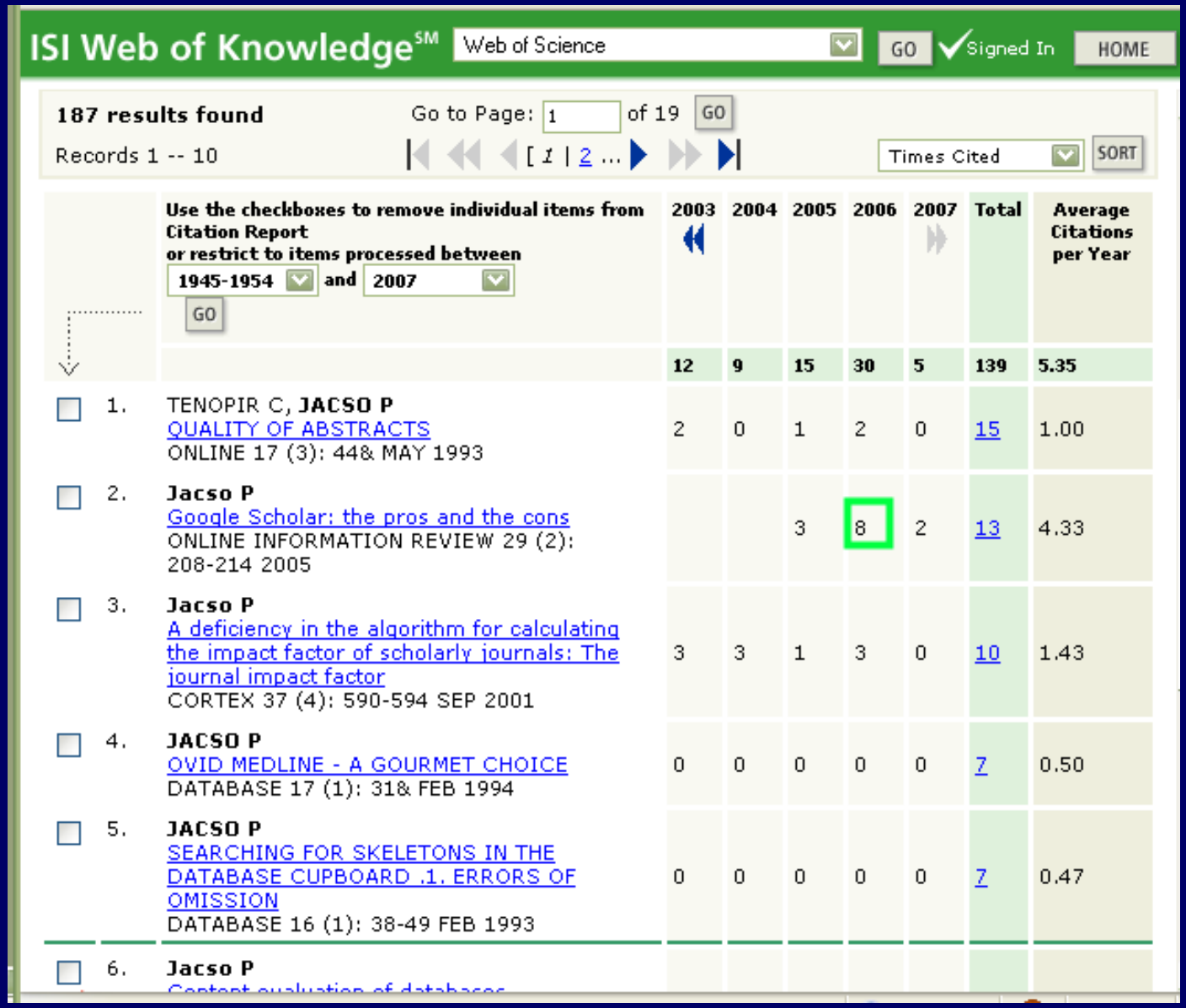
Absolute vs. relative citedness count



Citation histograms and relative citation count



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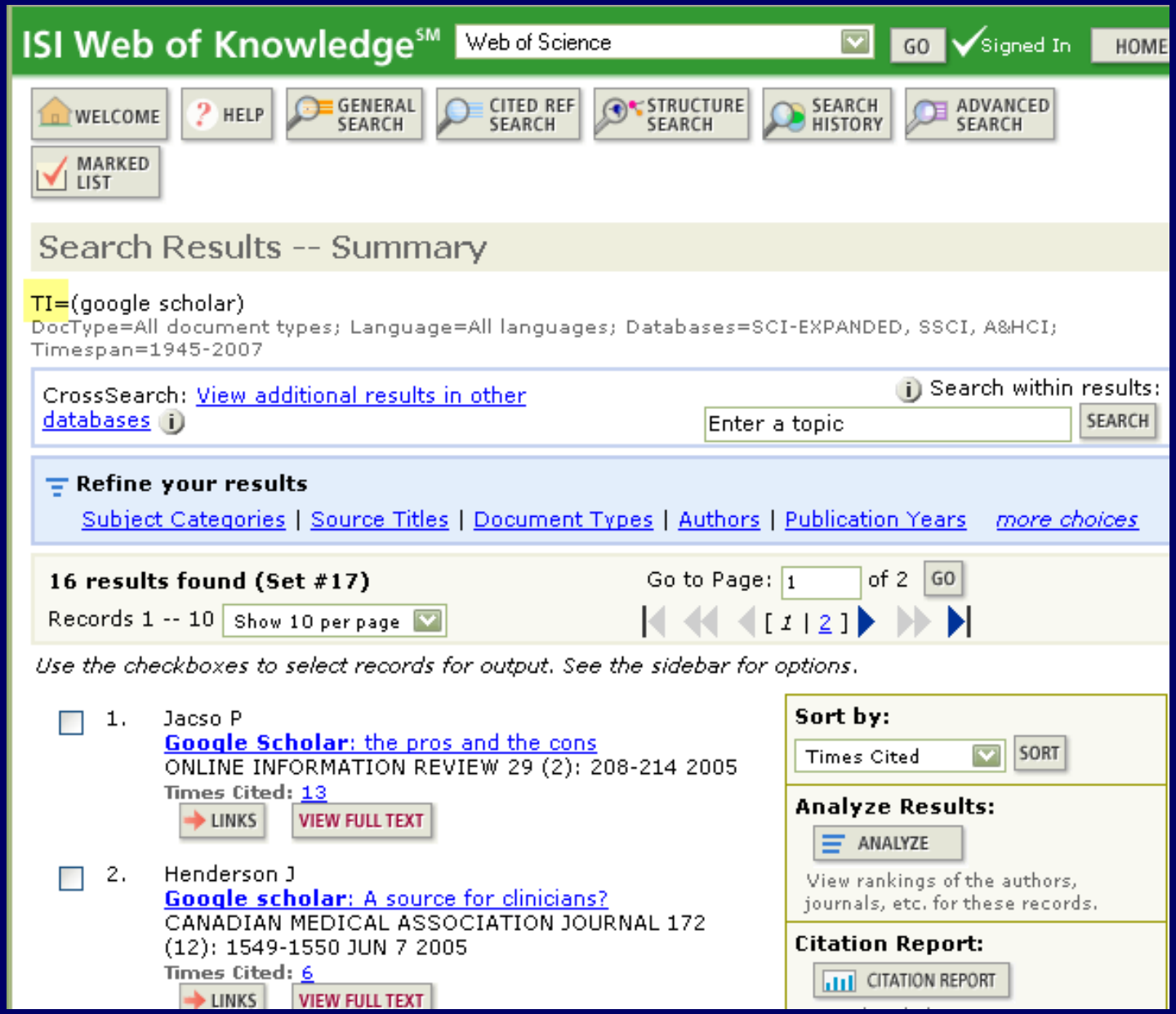
187 results found | Go to Page: 1 of 19 GO | Records 1 -- 10 | [1 | 2 ... | Times Cited | SORT

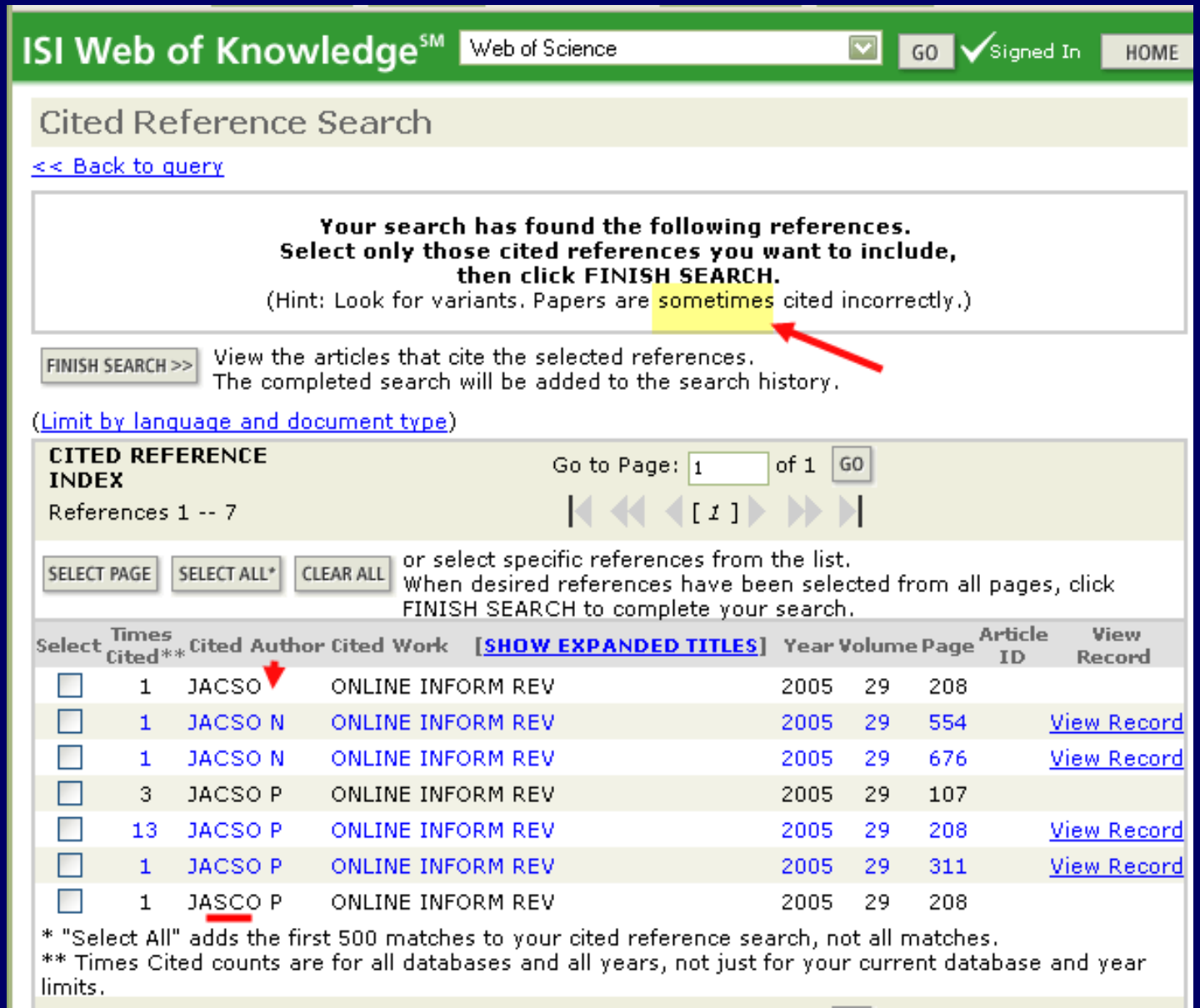
Use the checkboxes to remove individual items from Citation Report or restrict to items processed between 1945-1954 and 2007 GO

		2003	2004	2005	2006	2007	Total	Average Citations per Year
		12	9	15	30	5	139	5.35
1.	TENOPIR C, **JACSO P** QUALITY OF ABSTRACTS ONLINE 17 (3): 44& MAY 1993	2	0	1	2	0	15	1.00
2.	**Jacso P** Google Scholar: the pros and the cons ONLINE INFORMATION REVIEW 29 (2): 208-214 2005			3	8	2	13	4.33
3.	**Jacso P** A deficiency in the algorithm for calculating the impact factor of scholarly journals: The journal impact factor CORTEX 37 (4): 590-594 SEP 2001	3	3	1	3	0	10	1.43
4.	**JACSO P** OVID MEDLINE - A GOURMET CHOICE DATABASE 17 (1): 31& FEB 1994	0	0	0	0	0	7	0.50
5.	**JACSO P** SEARCHING FOR SKELETONS IN THE DATABASE CUPBOARD .1. ERRORS OF OMISSION DATABASE 16 (1): 38-49 FEB 1993	0	0	0	0	0	7	0.47
6.	**Jacso P**							

Sorting by citedness count



Be careful with counts and always browse the cited reference index, too



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Cited Reference Search

<< Back to query

Your search has found the following references.
Select only those cited references you want to include,
then click FINISH SEARCH.
(Hint: Look for variants. Papers are sometimes cited incorrectly.)

FINISH SEARCH >> View the articles that cite the selected references.
The completed search will be added to the search history.

(Limit by language and document type)

CITED REFERENCE INDEX
References 1 -- 7

Go to Page: 1 of 1 GO

[1]

SELECT PAGE | SELECT ALL* | CLEAR ALL or select specific references from the list.
When desired references have been selected from all pages, click FINISH SEARCH to complete your search.

Select	Times Cited**	Cited Author	Cited Work	[SHOW EXPANDED TITLES]	Year	Volume	Page	Article ID	View Record
☐	1	JACSO	ONLINE INFORM REV		2005	29	208		
☐	1	JACSO N	ONLINE INFORM REV		2005	29	554		View Record
☐	1	JACSO N	ONLINE INFORM REV		2005	29	676		View Record
☐	3	JACSO P	ONLINE INFORM REV		2005	29	107		
☐	13	JACSO P	ONLINE INFORM REV		2005	29	208		View Record
☐	1	JACSO P	ONLINE INFORM REV		2005	29	311		View Record
☐	1	JASCO P	ONLINE INFORM REV		2005	29	208		

* "Select All" adds the first 500 matches to your cited reference search, not all matches.
** Times Cited counts are for all databases and all years, not just for your current database and year limits.

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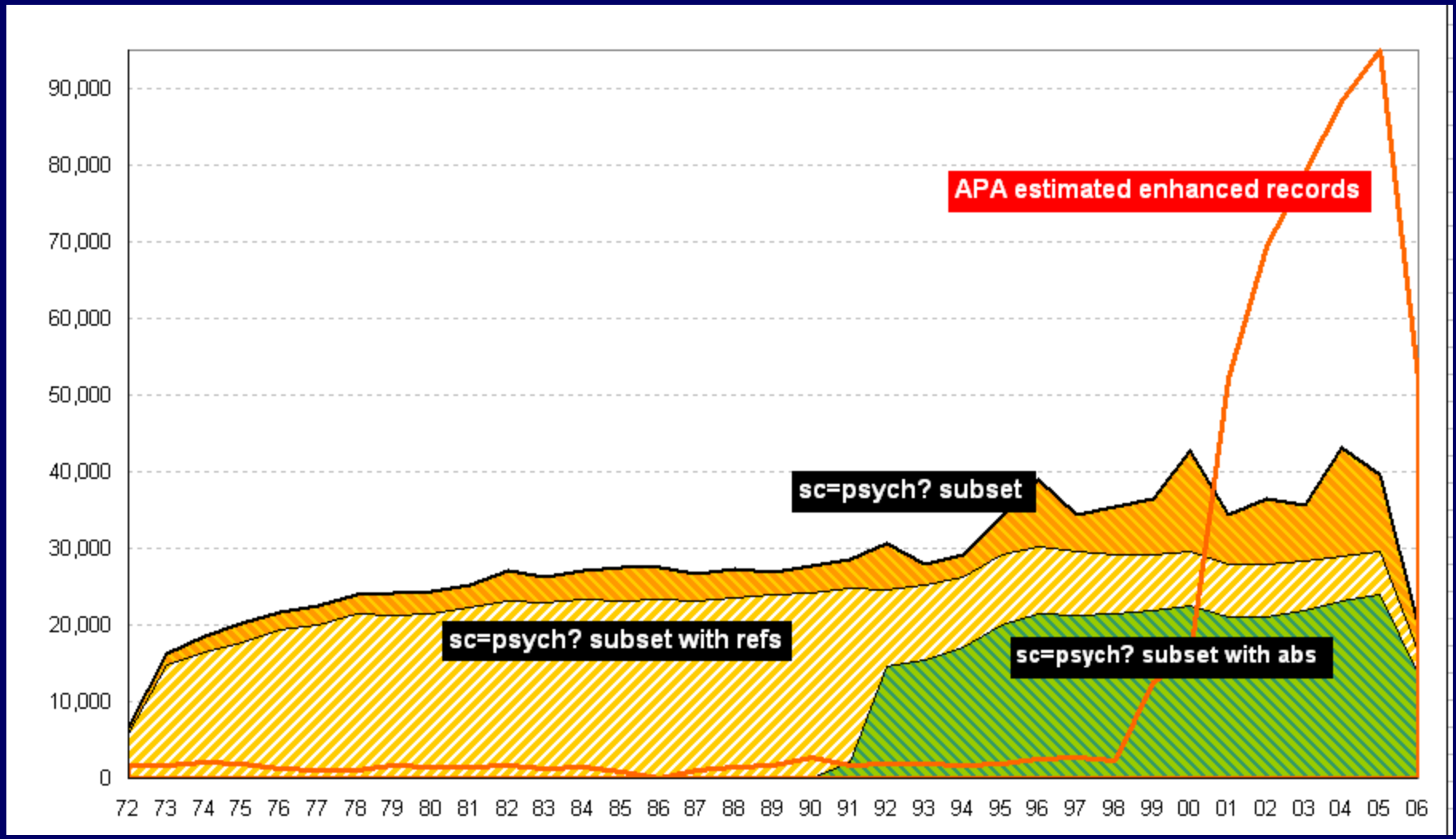
Be careful with counts and always browse the cited reference index, too

	1	JASCO P	ONLINE INFORM REV		29	208
	1	JASCO P	ONLINE INFORM REV	2005	29	208

ISI SocSCI psychology/psychiatry subset



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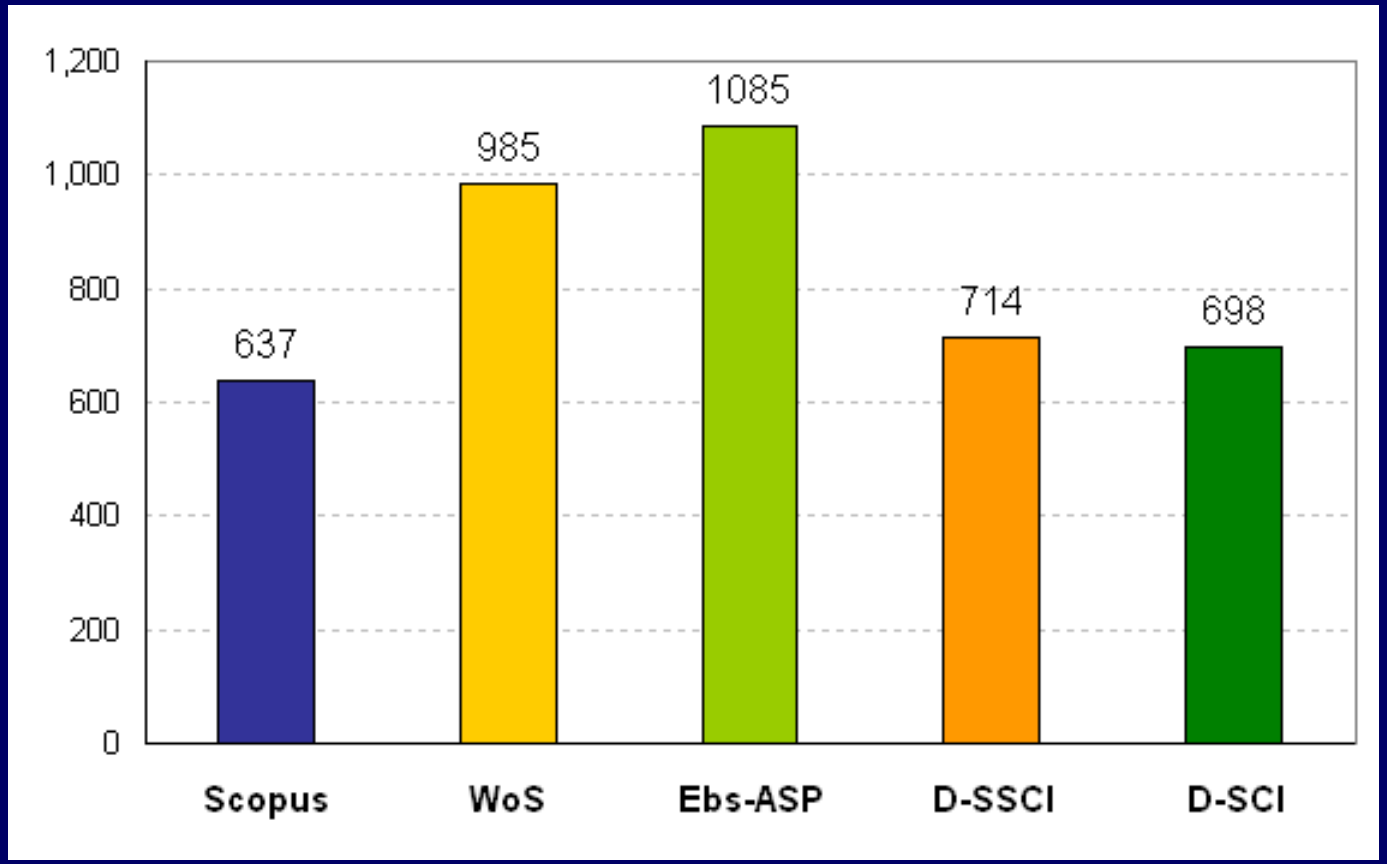
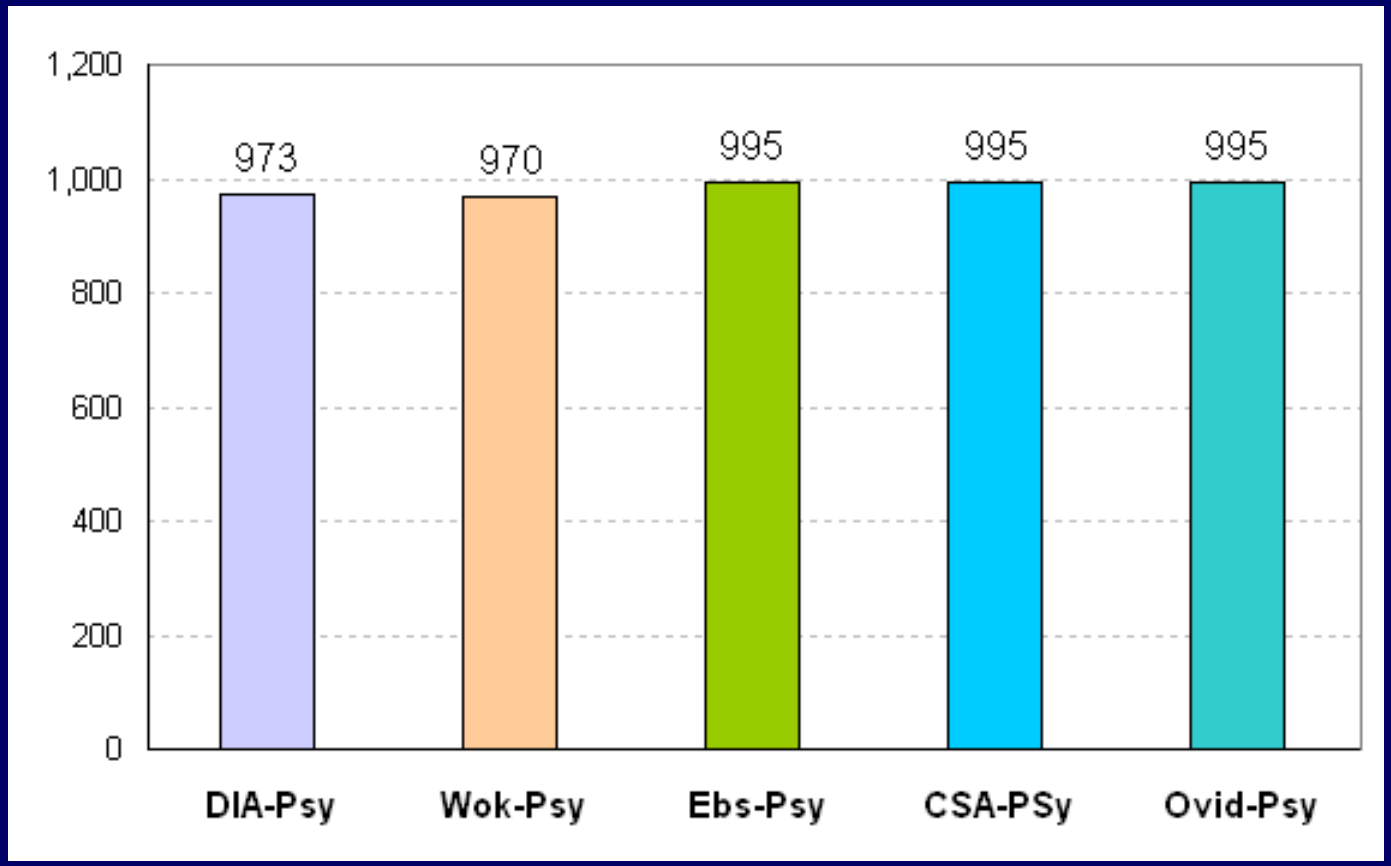
ARoP chapter records in multi-disciplinary databases



AROP chapter records in PsycINFO versions



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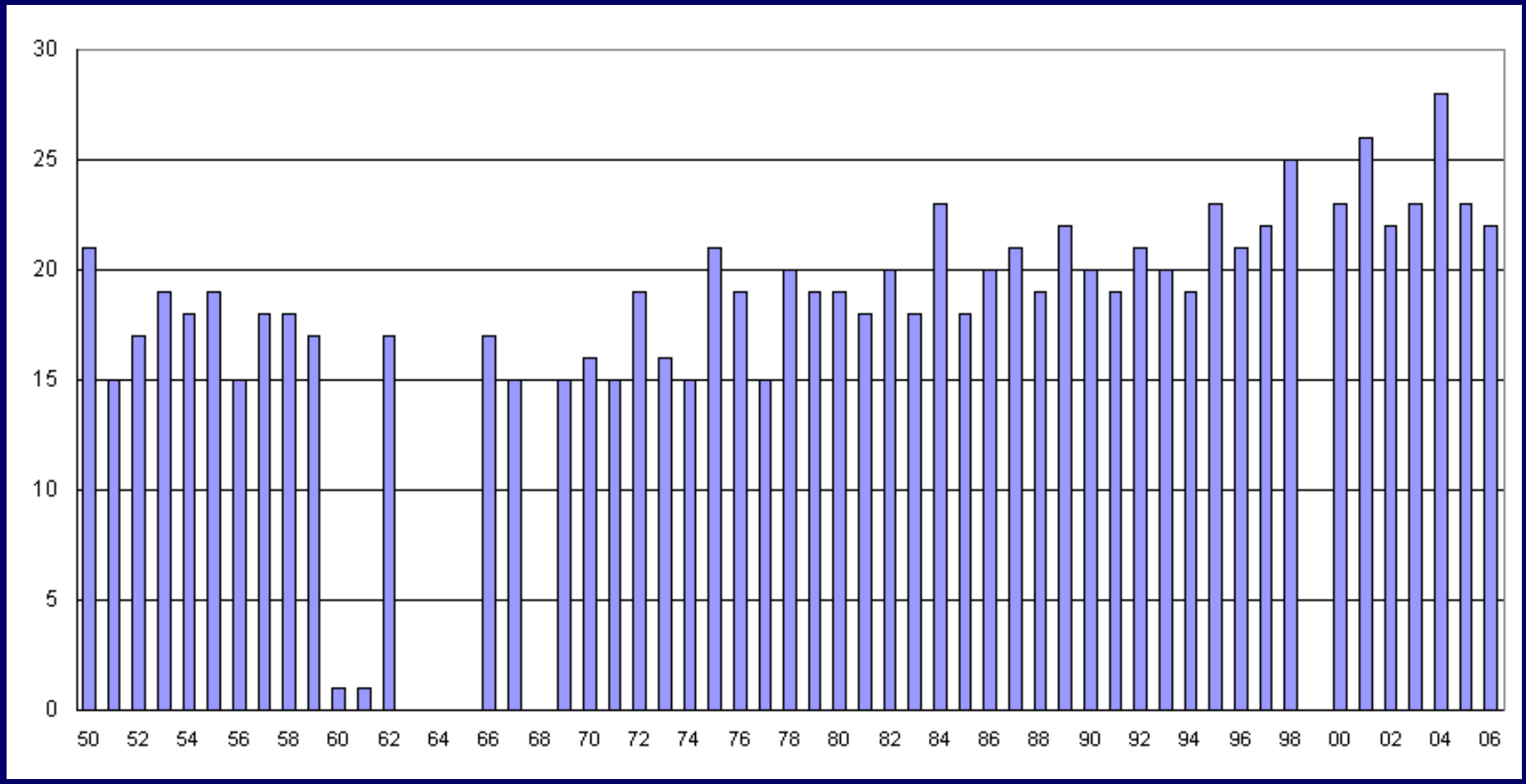
ARoP chapter records in Dialog PsycINFO



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ARoP chapter records in multidisciplinary databases

Year	Scopus	WoS	Ebs-ASP	D-SSCI	D-SCI
Total	637	985	1,085	714	698
2006	22	23	22	23	23
2005	23	24	23	24	24
2004	28	28	28	28	28
2003	24	24	23	24	24
2002	23	23	22	23	23
2001	26	28	26	28	28
2000	23	24	23	24	24
1999	25	26	25	26	26
1998	22	22	22	22	22
1997	22	22	22	22	22
1996	21	21	21	21	21
1995	23	24	23	24	24
1994	18	19	18	19	19
1993	20	21	21	21	21
1992	21	21	21	21	21
1991	19	19	19	19	19
1990	21	21	21	21	21
1989	14	22	22	22	22
1988	12	19	19	19	19
1987	10	22	21	22	22
1986	9	20	20	20	20
1985	8	18	18	18	18
1984	8	23	23	23	23
1983	7	19	19	19	19
1982	8	20	20	20	20
1981	6	18	20	18	18
1980	7	19	20	19	19
1979	6	19	19	19	19
1978	20	20	20	20	20

Year	Scopus	WoS	Ebs-ASP	D-SSCI	D-SCI
1977	7	15	15	15	15
1976	8	18	19	18	18
1975	21	21	21	21	21
1974	10	15	15	15	15
1973	9	16	16	16	
1972	9	19	19		
1971	9	16	15		
1970	13	19	16		
1969	8		16		
1968	15	17	15		
1967	15	15	15		
1966	17	18	18		
1965		16	17		
1964		17	17		
1963		15			
1962		17	17		
1961		17	19		
1960		16	16		
1959		17	17		
1958		18	18		
1957		18	19		
1956		16	16		
1955			19		
1954			19		
1953			19		
1952			17		
1951			17		
1950			17		

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AROP chapter records in PsycINFO versions

Year	DIA-Psy	Vok-Psy	Ebs-Psy	CSA-PSy	Ovid-Psy
Total	973	970	995	995	995
2006	22	22	22	22	22
2005	23	23	23	23	23
2004	28	28	28	28	28
2003	23	23	23	23	23
2002	22	22	22	22	22
2001	26	26	26	26	26
2000	23	23	23	23	23
1999		25	25	25	25
1998	25	22	22	22	22
1997	22	22	22	22	22
1996	21	21	21	21	21
1995	23	23	23	23	23
1994	19	19	19	19	19
1993	20	20	20	20	20
1992	21	21	21	21	21
1991	19	19	19	19	19
1990	20	20	20	20	20
1989	22	22	22	22	22
1988	19	19	19	19	19
1987	21	21	21	21	21
1986	20	20	20	20	20
1985	18	18	18	18	18
1984	23	23	23	23	23
1983	18	18	18	18	18
1982	20	20	20	20	20
1981	18	18	18	18	18
1980	19	19	19	19	19
1979	19	19	19	19	19
1978	20	20	20	20	20

Year	DIA-Psy	Vok-Psy	Ebs-Psy	CSA-PSy	Ovid-Psy
1977	15	4	15	15	15
1976	19	4	19	19	19
1975	21	21	21	21	21
1974	15	15	15	15	15
1973	16	16	16	16	16
1972	19	19	19	19	19
1971	15	15	15	15	15
1970	16	16	16	16	16
1969	15	15	15	15	15
1968					
1967	15	15	15	15	15
1966	17	17	17	17	17
1965					
1964					
1963					
1962	17	17	17	17	17
1961	1	1	1	1	1
1960	1	1	1	1	1
1959	17	17	17	17	17
1958	18	18	18	18	18
1957	18	18	18	18	18
1956	15	15	15	15	15
1955	19	19	19	19	19
1954	18	18	18	18	18
1953	19	19	19	19	19
1952	17	17	17	17	17
1951	15	15	15	15	15
1950	21	22	21	21	21

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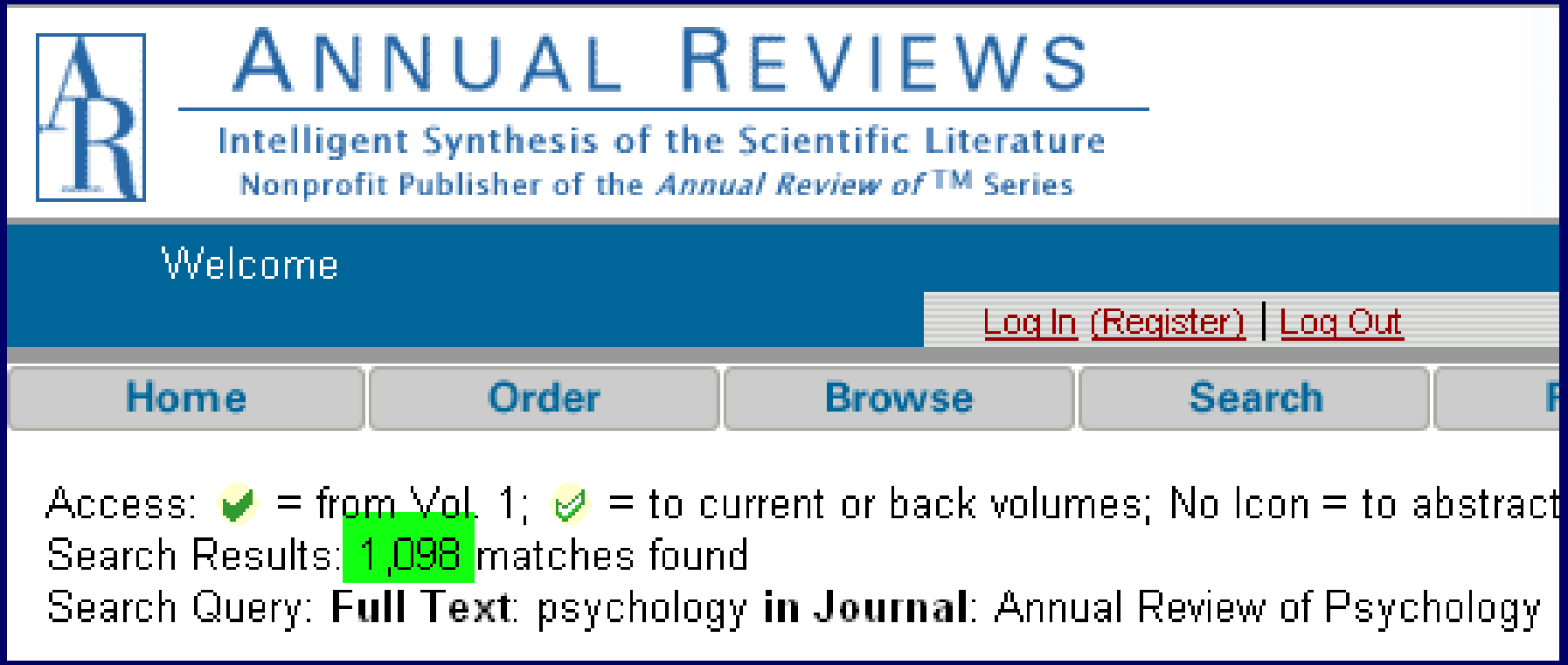
And the winner is …..



Gaping gaps in all/some PsycINFO versions

DialogWeb

Command Search | new search | databases | alerts | order

Search History

Database Details

Set	Term Searched	Items
S1	JN='ANNUAL REVIEW OF PSYCHOLOGY'	973
S2	S1/1959	17
S3	S1/1960	1
S4	S1/1961	1
S5	S1/1962	17
S6	S1/1963	0
S7	S1/1964	0
S8	S1/1965	0
S9	S1/1966	17
S10	S1/1967	15
S11	S1/1968	0

Show Database Details for: 11: PsycINFO® Bluesheet Rat

DialogWeb

Command Search | new search | databases | alerts | order | cost | logoff | help

Dialog Response

```
Adding title to results...
AROP RECORDS IN DIALOG PSYCINFO
------------------------------
RANK: S1/1-973    Field: PY=   File(s): 11
(Rank fields found in 973 records -- 52
RANK No.  Items  Term
--------  -----  ----
   12        22  2006
    8        23  2005
    1        28  2004
    7        23  2003
   11        22  2002
    2        26  2001
    6        23  2000
    3        25  1998
   10        22  1997
   17        21  1996
    5        23  1995
   31        19  1994
   22        20  1993
   16        21  1992
   30        19  1991
```

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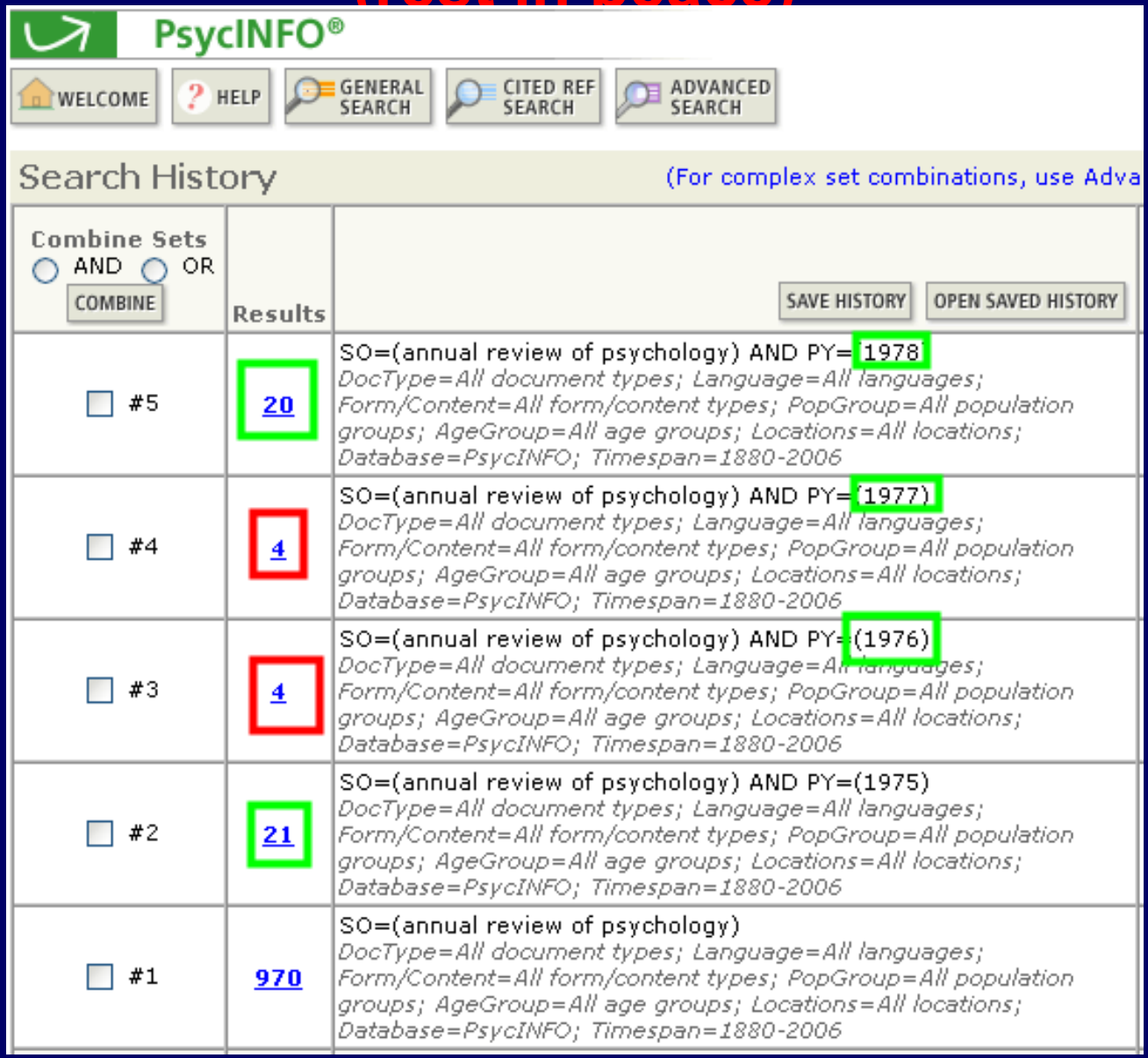
Odd drop of records in WoK PsycINFO (rest in peace)



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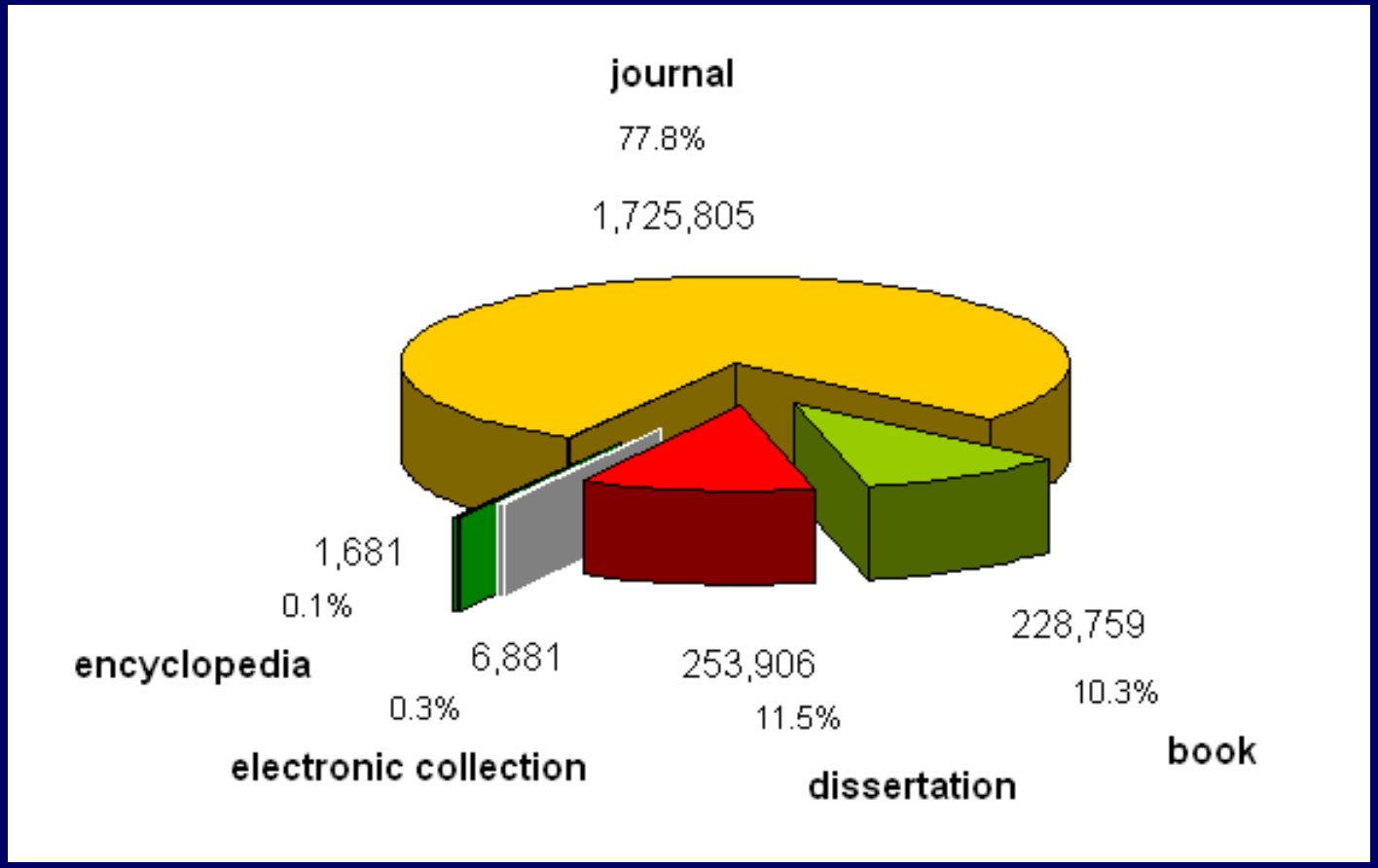
PsycINFO source composition



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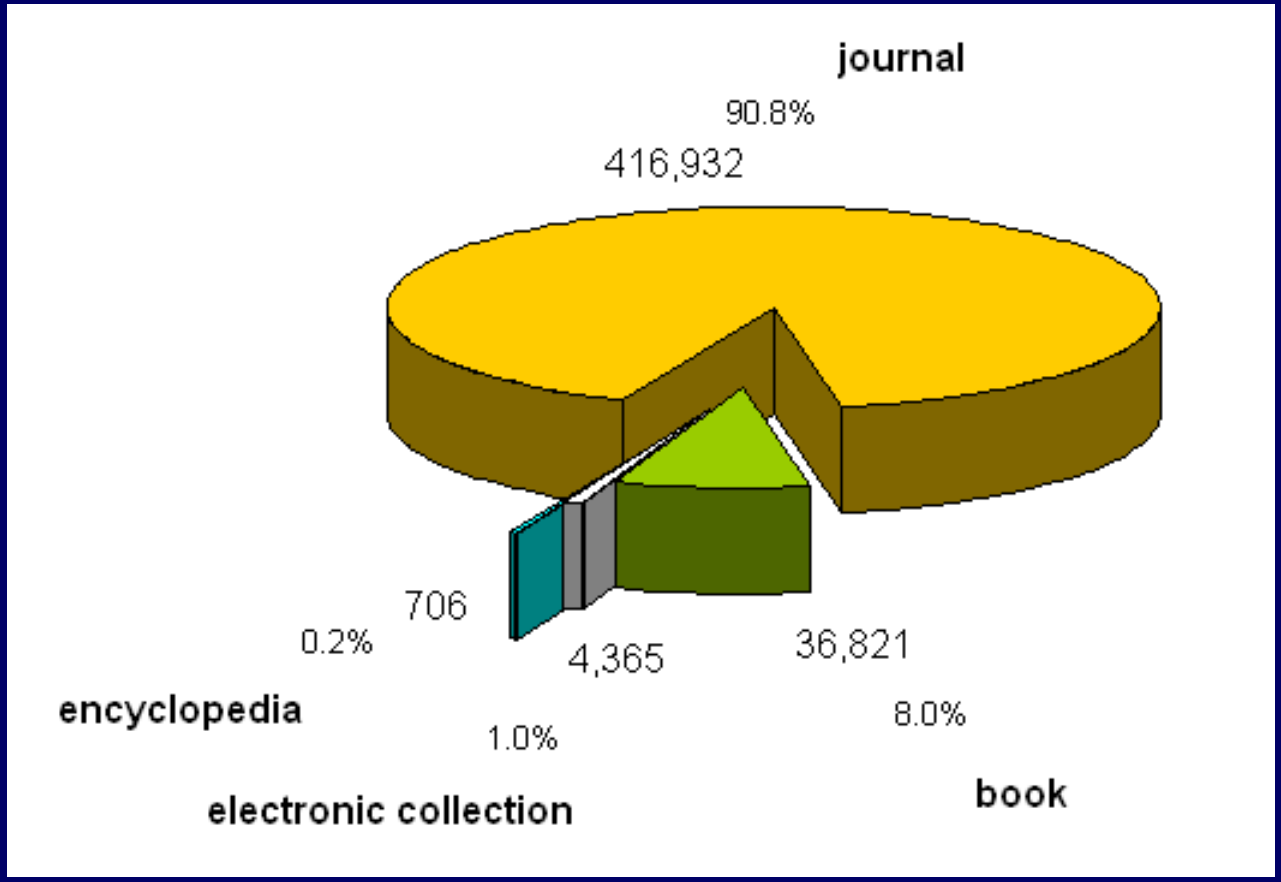
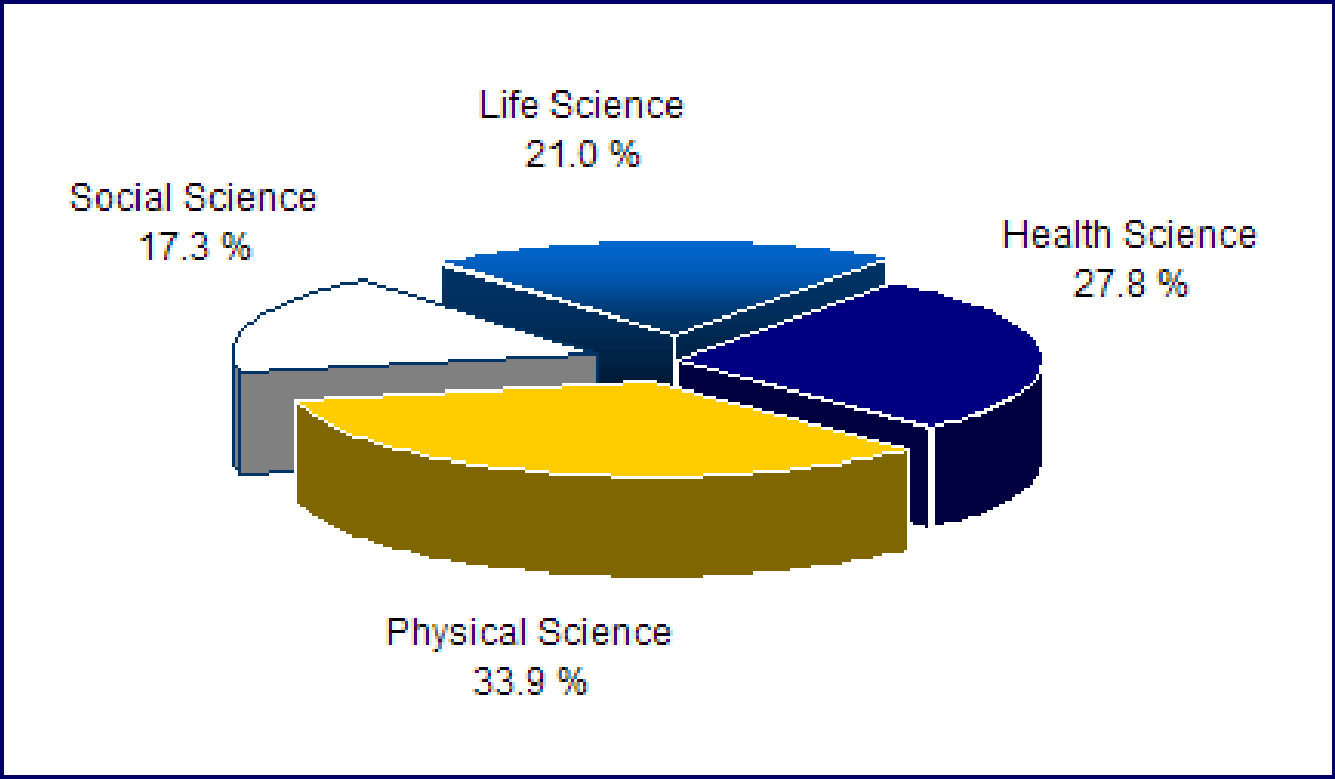
PsycINFO citation enhanced records by doc type



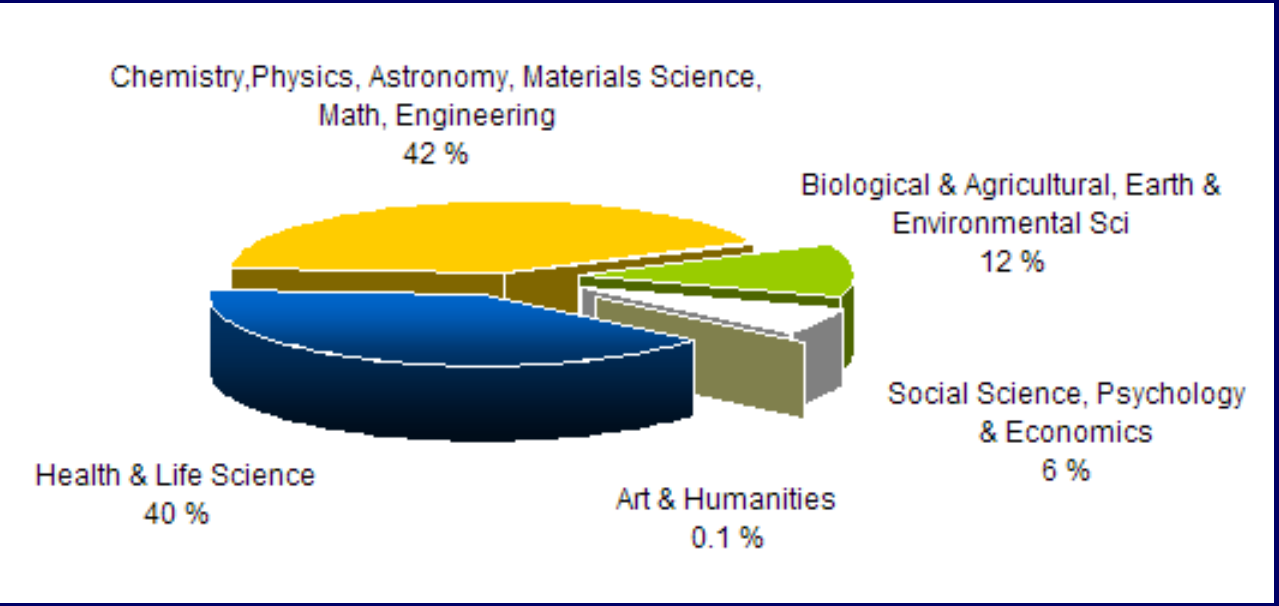
Subject Scope

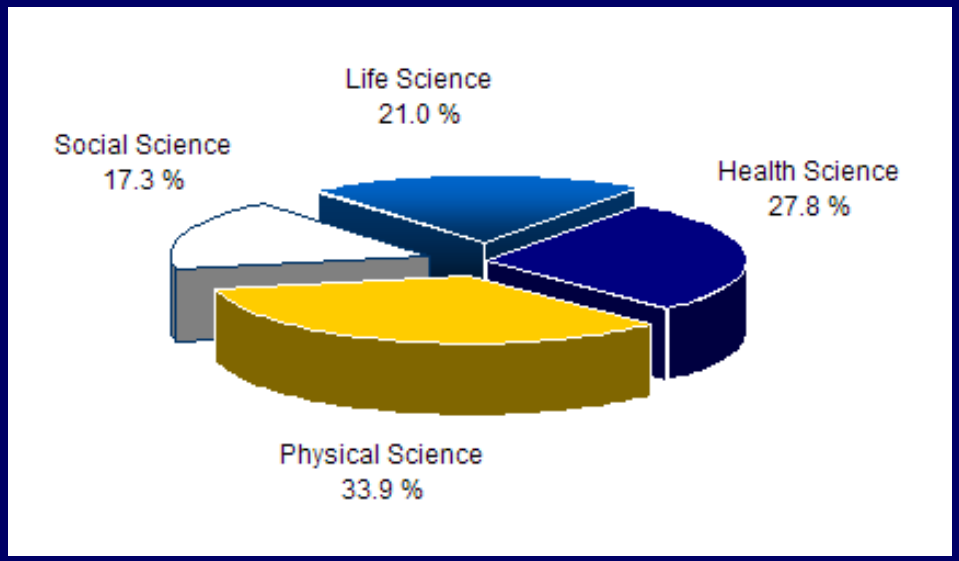
- Not static. May have evolved in the past X years
- Obvious subject dominance in Scopus at the journal level*



Note: Scopus claims to cover 15,000+ journals
About 10% of the journals are assigned to more than 1 main categories

Much more prominent subject dominance at the article level





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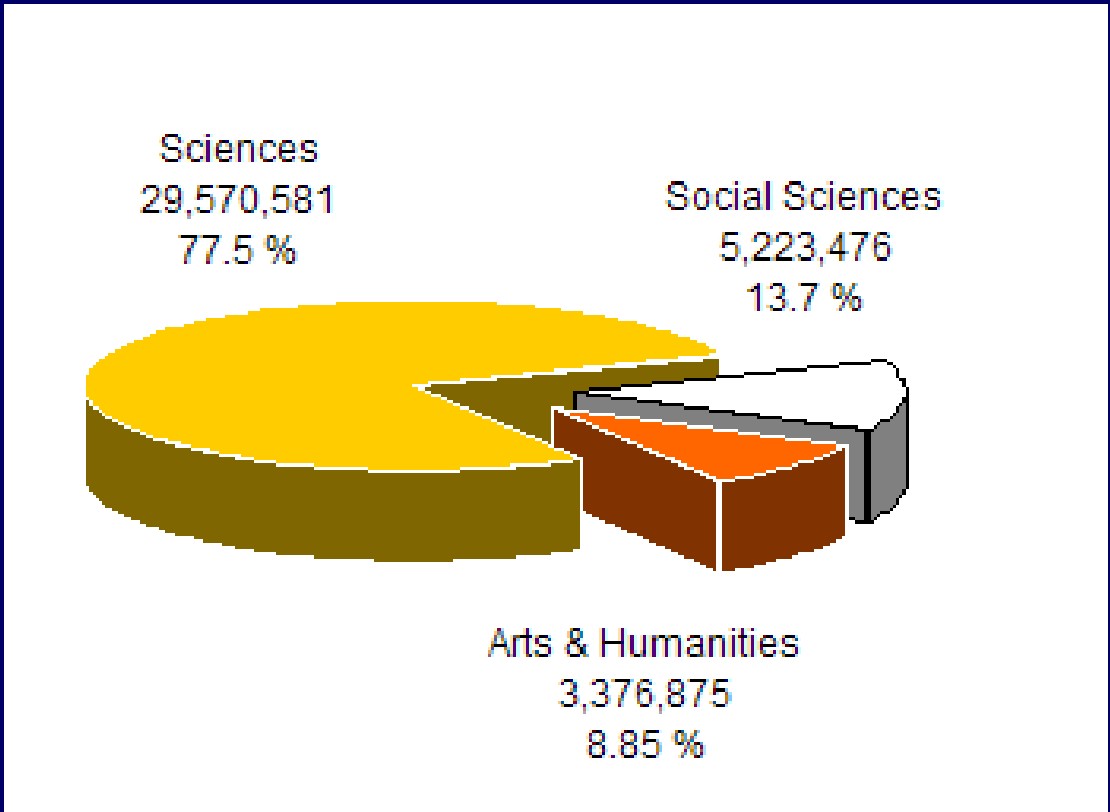
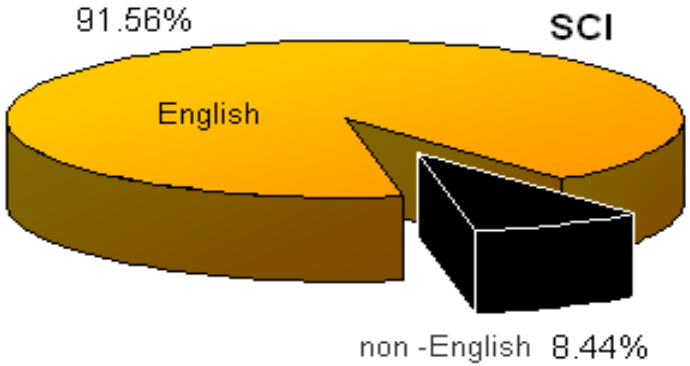
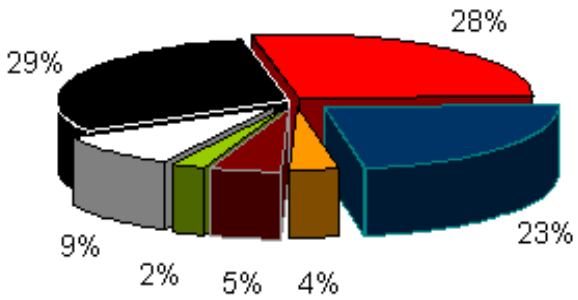
Significant Presence of Social Science + Arts & Humanities in WoS

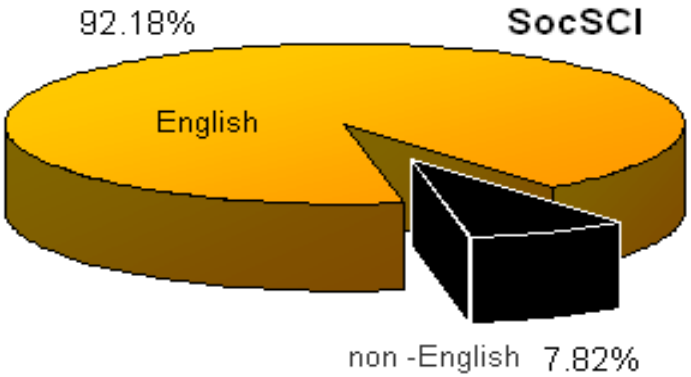


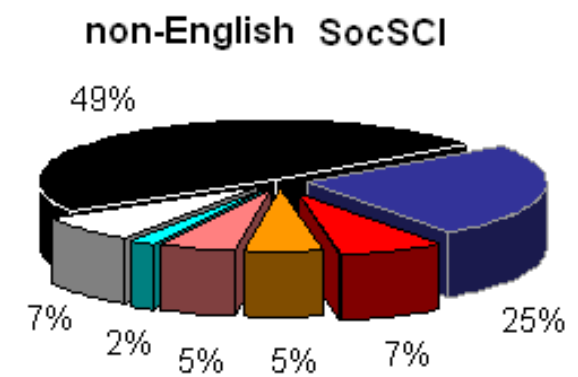
talan

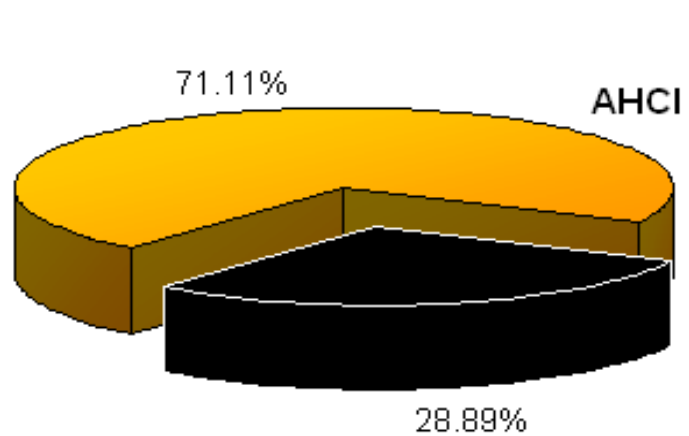
Composition

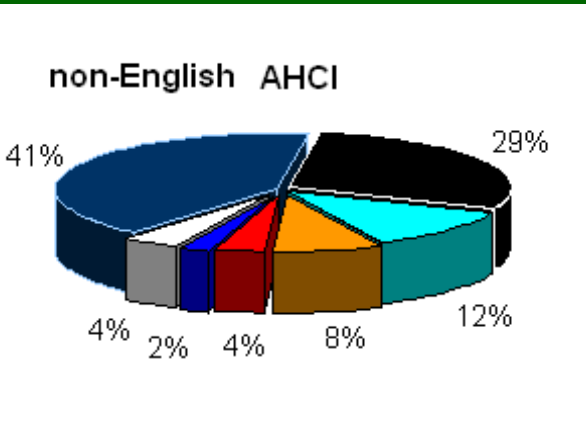












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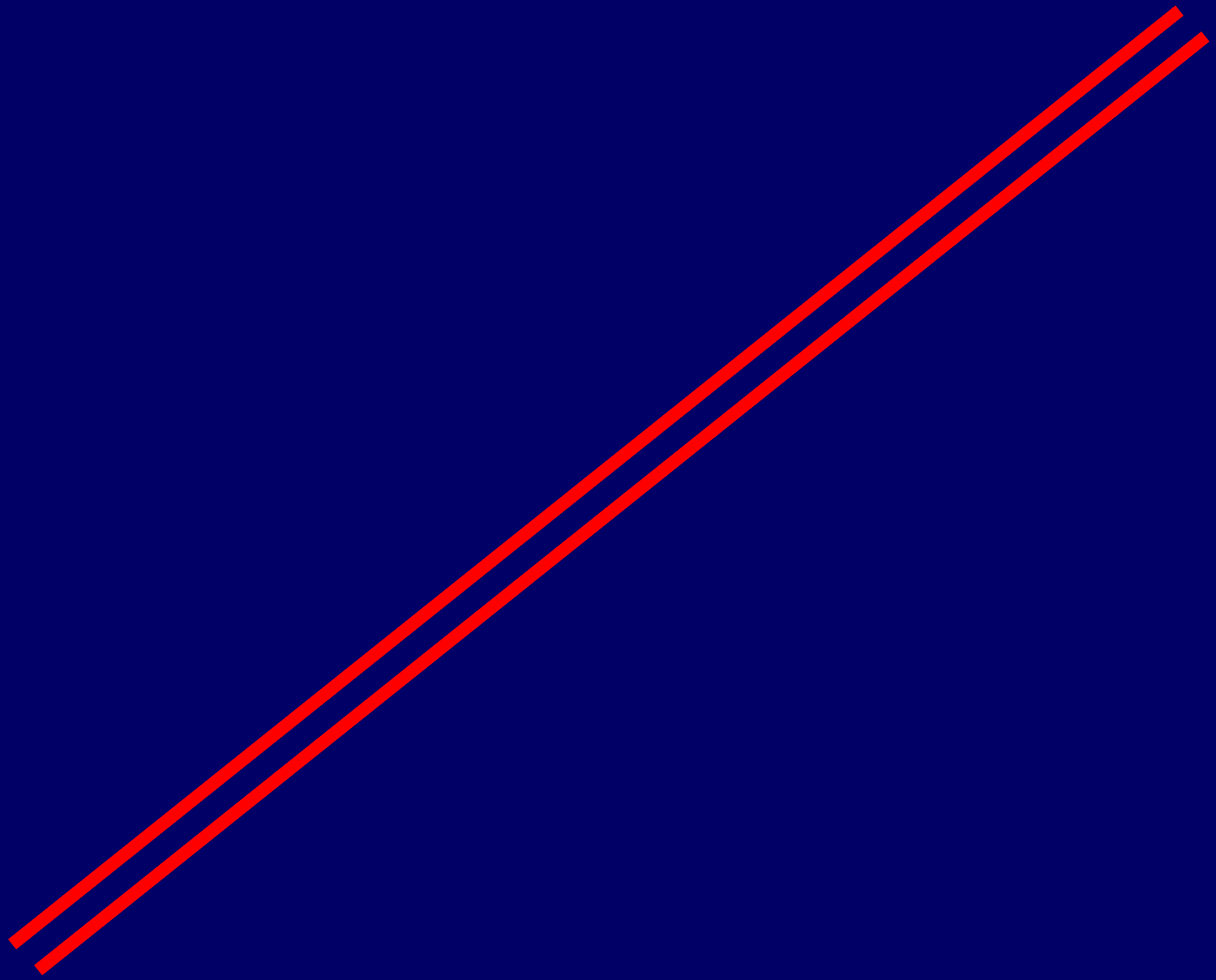

Journal base

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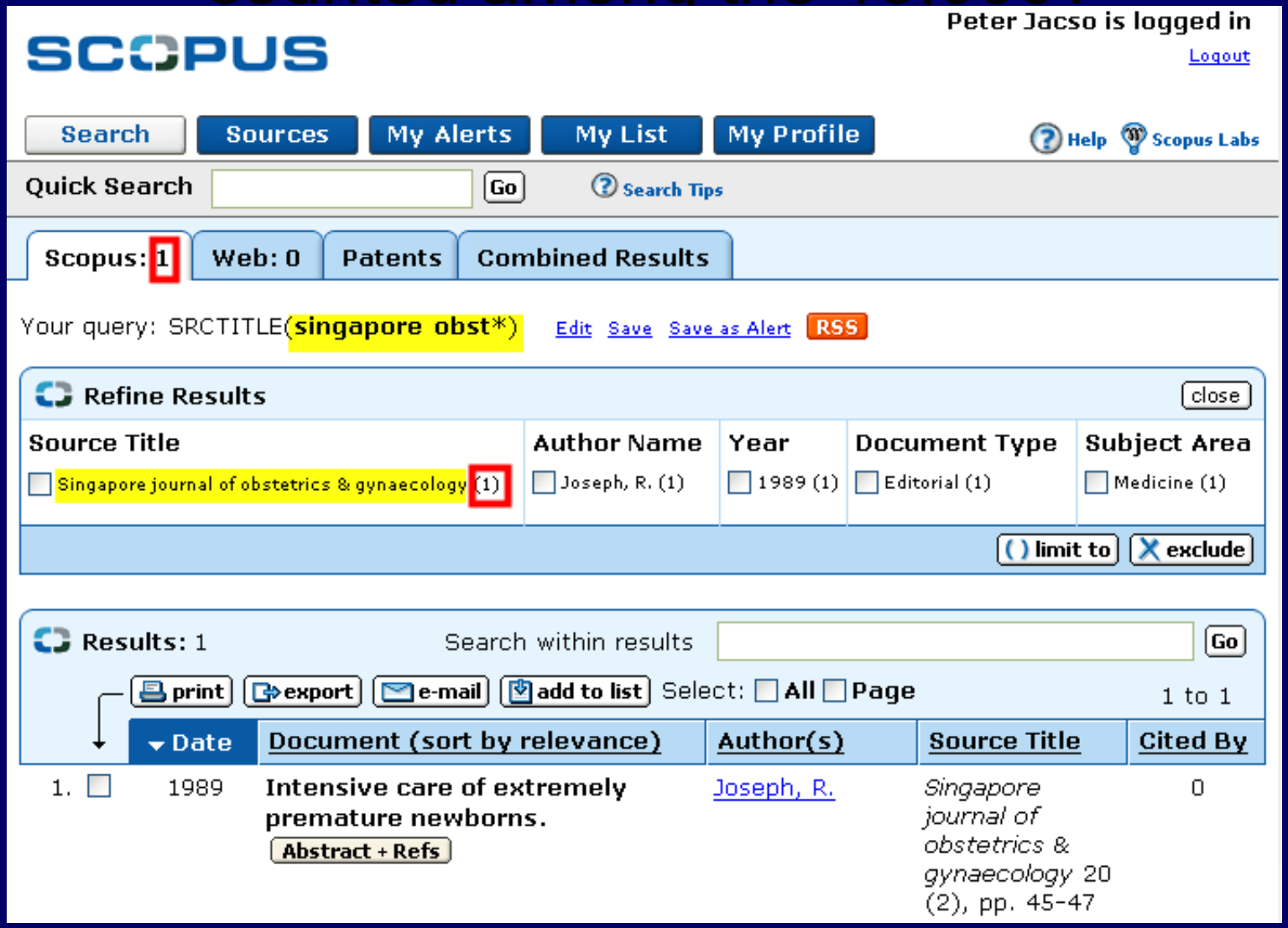
Scopus in Detail: What does it cover?

Scopus is the largest abstract and citation database. It covers:

- Over 15,000 peer-reviewed titles from more than 4,000 international publishers, including coverage of:
  - 500 Open Access journals
  - 700 Conference Proceedings
  - 600 Trade Publications
  - 125 Book Series
- 27,7 million abstract records
- 245 million references, added to all abstracts

15441	Veterinary Quarterly	Euroscien	Netherland
15442	Veterinary Radiology and Ultrasound	Blackwell I	Australia
15443	Veterinary Record	British Vet	United Kin
15444	Veterinary Research	EDP Scier	France
15445	Veterinary Research Communications	Kluwer Ac	Netherland
15446	Veterinary Surgery	Blackwell I	Australia
15447	Veterinary Technician	Veterinary	USA
15448	Veterinary Therapeutics	Veterinary	USA
15449	Vlaams Diergeneeskundig Tijdschrift	Universiteit	Belgium
15450	Wiener Tierarztliche Monatsschrift	B W K Pul	Austria
15451			

Are journals with such modest intake counted among the 15,000?



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2004 JCR Social Science Ed

Journal Summary List

Journal Title Cha

Journals from: subject categories INFORMATION SCIENCE & LIBRARY SCIENCE | VIEW CATEGORY SUMMARY LIST

Sorted by: Impact Factor | SORT AGAIN

Journals 1 - 20 (of 54) [1 | 2 | 3] **Page 1**

MARK ALL | UPDATE MARKED LIST

Ranking is based on your journal and sort selections.

Mark	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	Total Cites	Impact Factor	Immediacy Index	Articles	Cited Half-life
☐	1	ANNU REV INFORM SCI	0066-4200	296	4.292	0.333	12	5.7
☐	2	INFORM SYST RES	1047-7047	615	3.512	0.100	20	5.8
☐	3	MIS QUART	0276-7783	1869	2.884	0.333	24	9.7
☐	4	J AM MED INFORM ASSN	1067-5027	1468	2.612	0.918	61	4.7
☐	5	J AM SOC INF SCI TEC	1532-2882	2254	2.086	0.216	97	6.2
☐	6	INFORM MANAGE-AMSTER	0378-7206	1013	1.815	0.056	72	5.4
☐	7	J DOC	0022-0418	654	1.542	0.269	26	7.2
☐	8	INFORM PROCESS MANAG	0306-4573	992	1.295	0.185	54	7.8
☐	9	J MANAGE INFORM SYST	0742-1222	944	1.271	0.171	35	6.9
☐	10	INT J GEOGR INF SCI	1365-8816	899	1.234	0.135	37	7.4
☐	11	COLL RES LIBR	0010-0870	384	1.159	0.038	26	5.8

Current Science

Scopus™ has wider scope than *Science Citation Index*

scopus.com), an Elsevier product which is all set to become the single largest scientometric database with more than 27 million abstracts and citations covering 14,500 journals from 4000 publishers, and dating back to 1966. Free access to the beta version of this database made this study possible.

Methodology

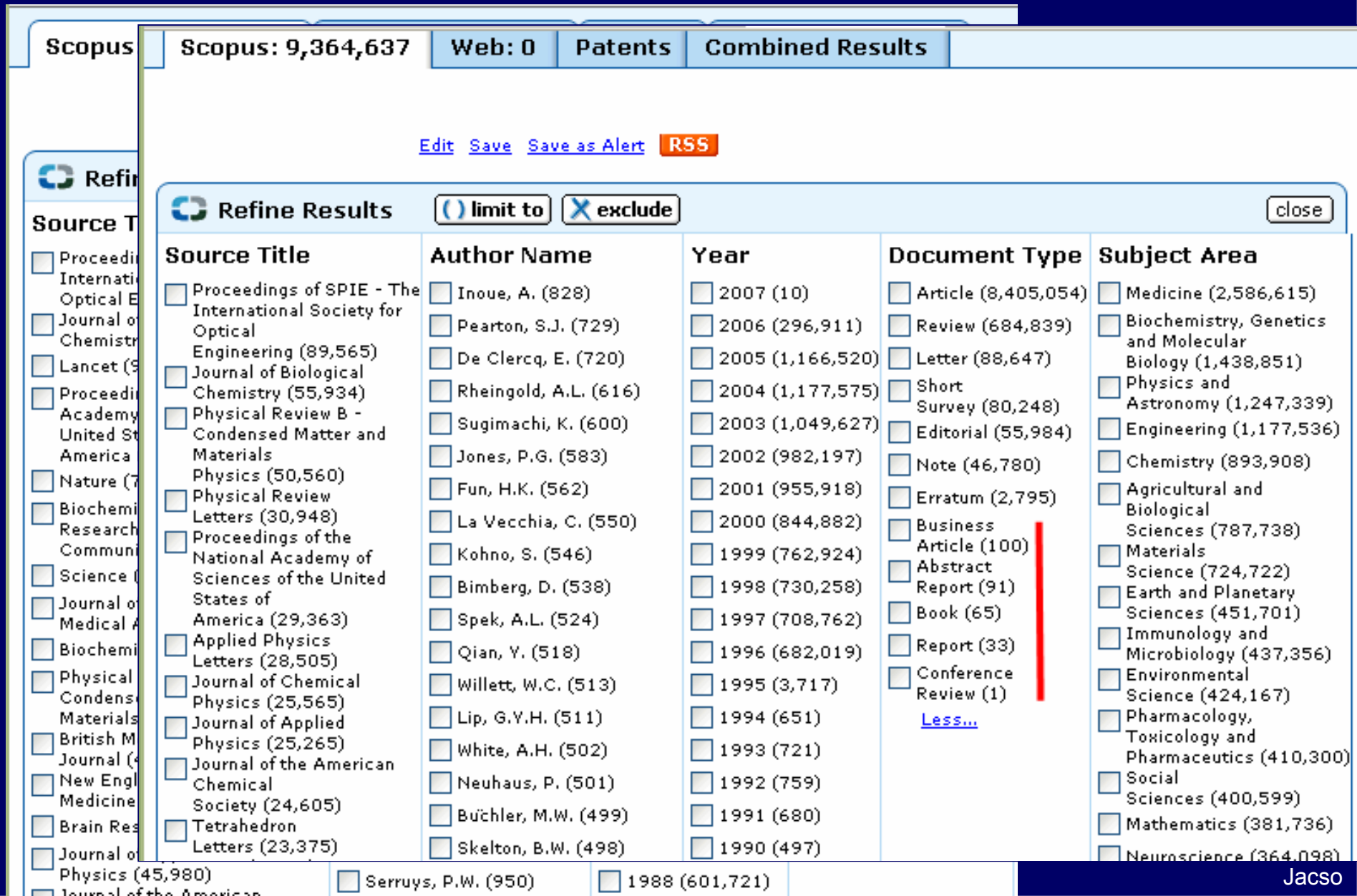
The SCOPUS database was interrogated for all records of papers published by scientists from Institute *X* during 1974–2004. Here it is important to make the following distinctions. All databases will naturally

pate in the intellectual process associated with scientific discovery at Institute *X* never get to publish! This, of course, the scientometric data can never capture. For Institute *X*, in addition to all those who have achieved author status during the period covered by the study, an attempt is made to include all senior scientists (non-entry level, as it is assumed that entry-level scientists will take some time to get themselves established) on the latest roster as the zero item cases. For this study to be more complete, it is important that at a future date, the list of zero-paper scientists be obtained from the total population of all scientists who worked at Institute *X* during the period 1974–2004. For now,

co-authors. The data in Table 1 show (complete data available from the author upon request) that at the lower end, 182 scientists wrote no papers, 40 unique authors wrote only one paper each in the 30 years from 1974 to 2004, and another 52 authors contributed to two papers each. This distribution is captured in Figure 1. The distribution is bimodal, with a huge peak at 0 papers and another peak at 2 papers. This suggests that in Institute *X*, there is a large component of the task force doing only applied work (time-bound, mission-oriented, etc.) and does not publish, and that among those who publish, the peak is at 2 papers. That is, nearly 50% of the actual population of active scien-

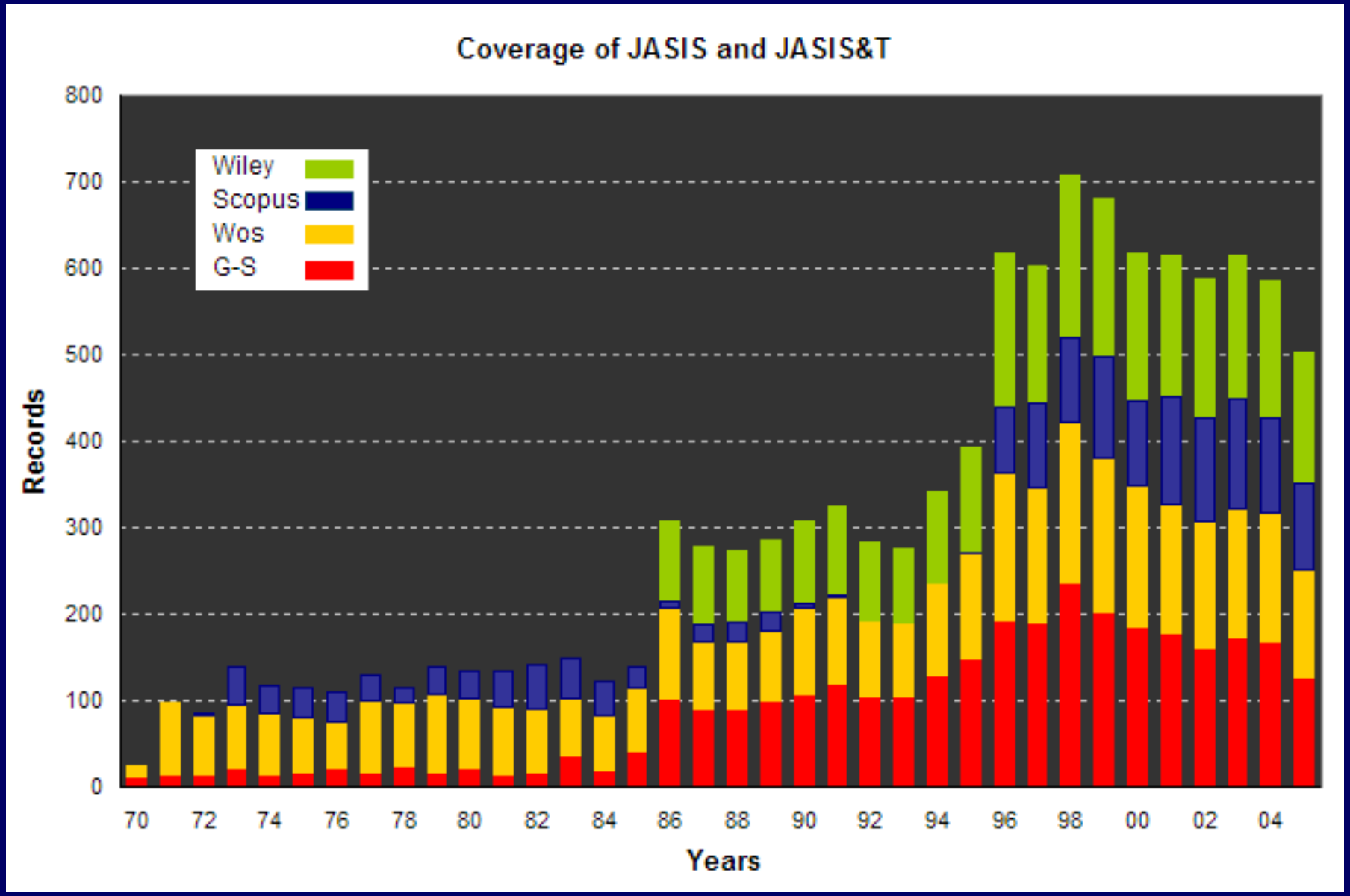
Some documents types have significant presence, but…

are not enhanced with cited refs

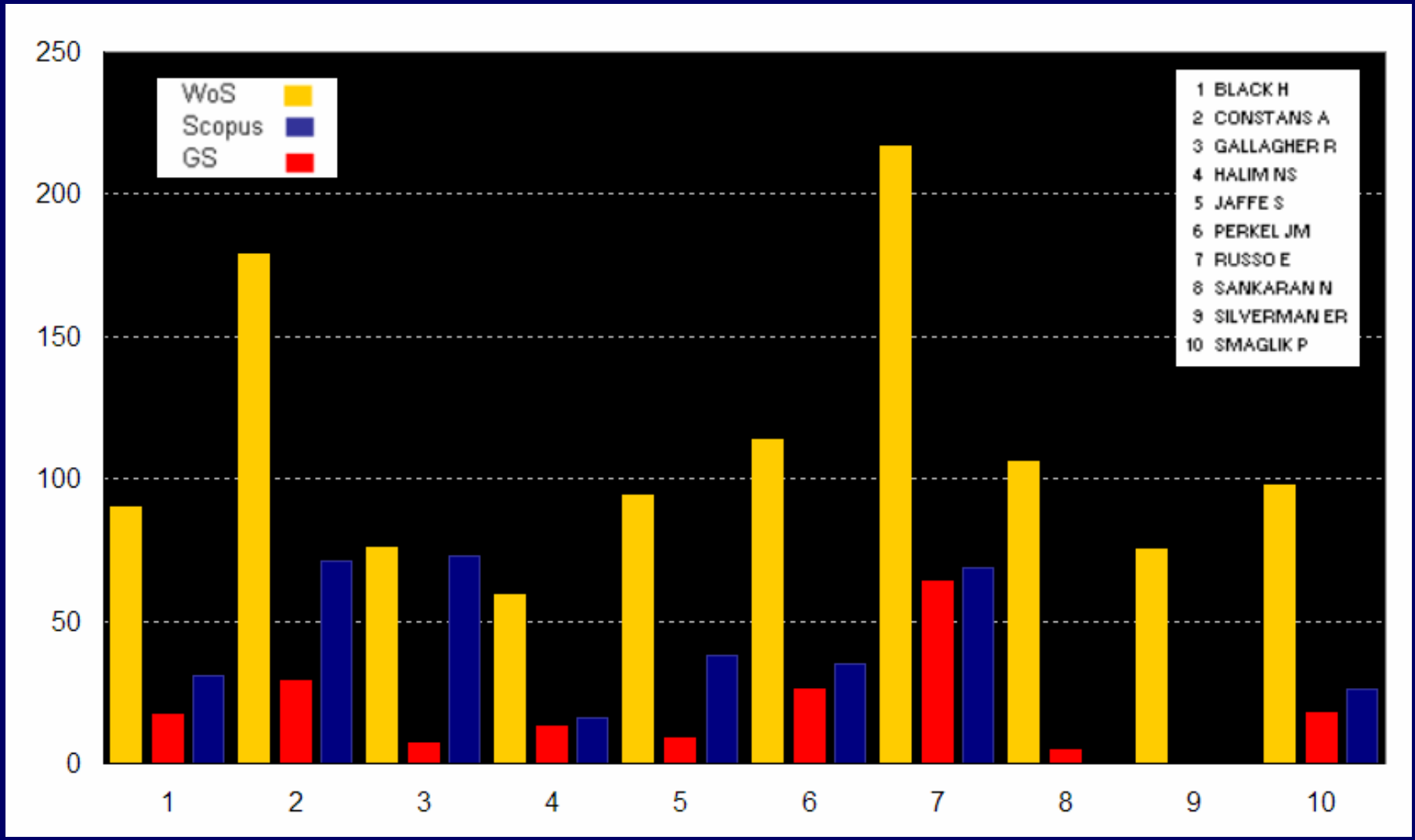


Jacso

JASIS - JASIS&T coverage (1970 – 2005)

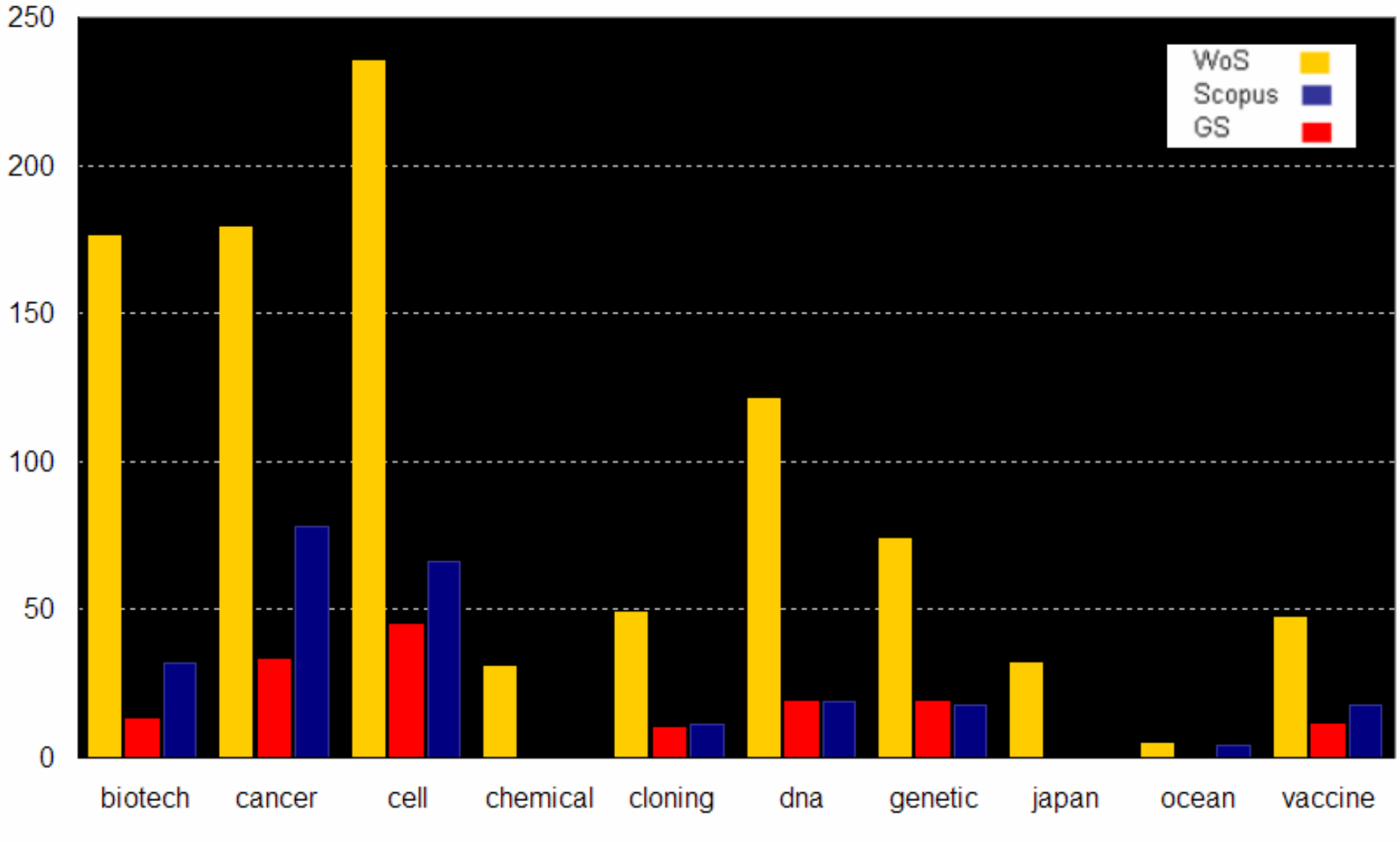


The Scientist case

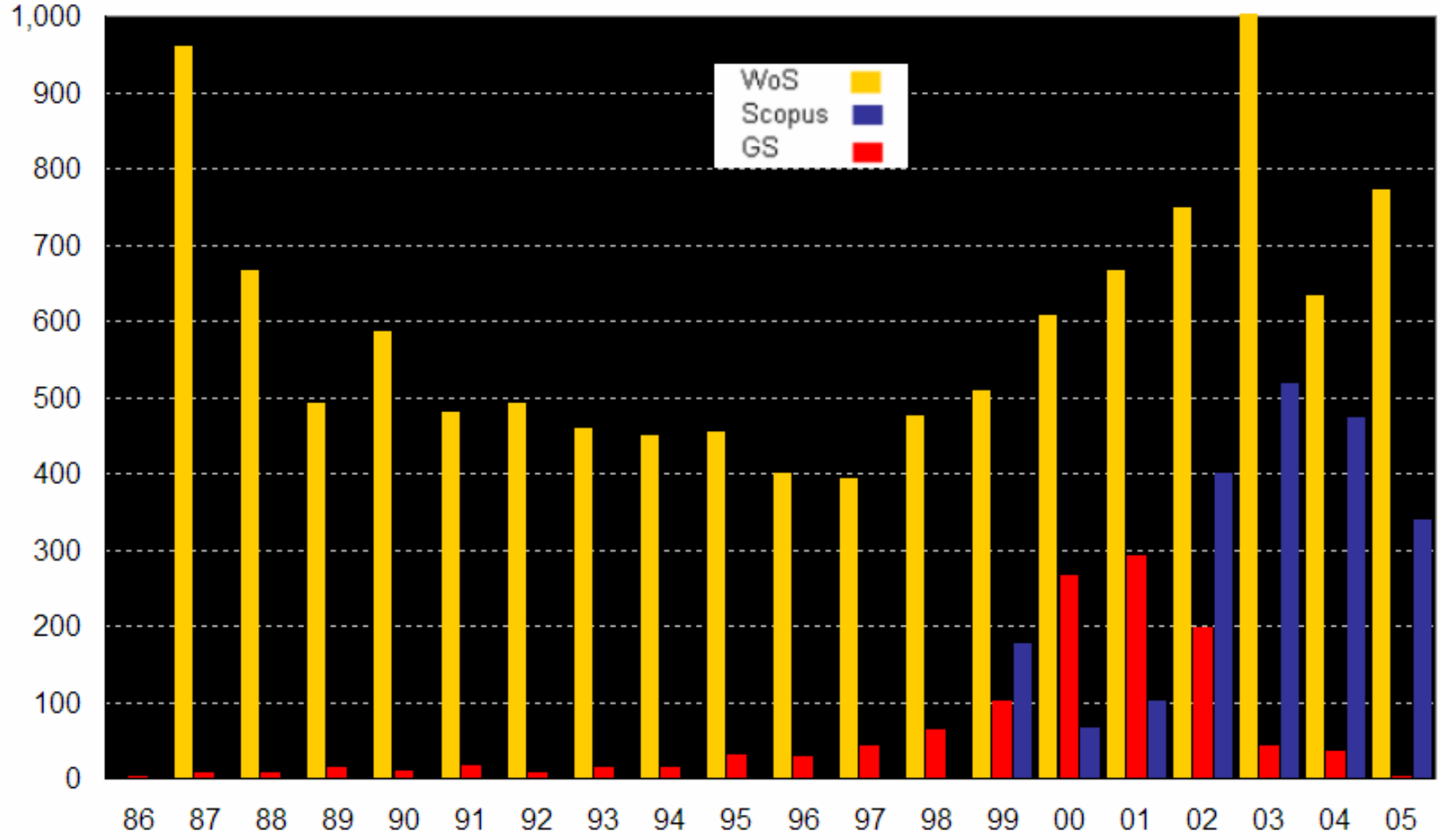


Jacso

The Scientist case

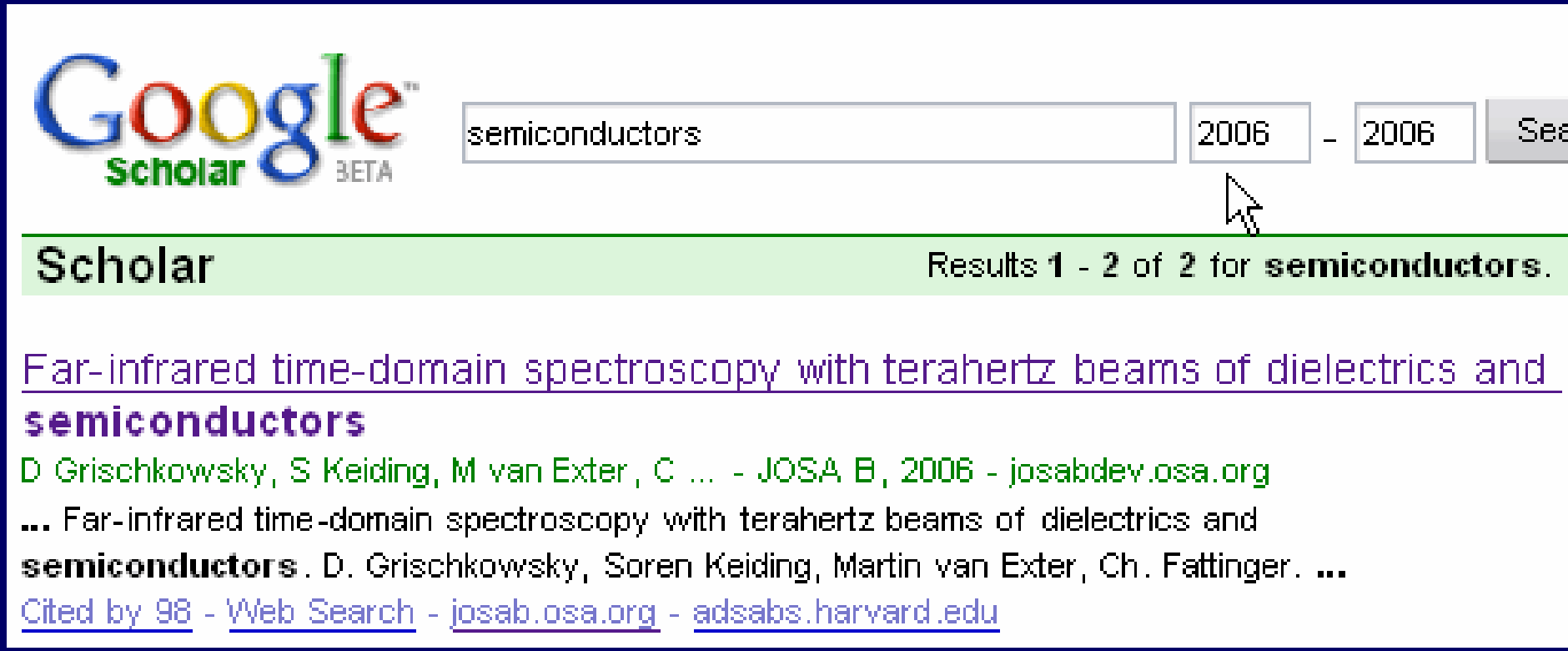


The Scientist case

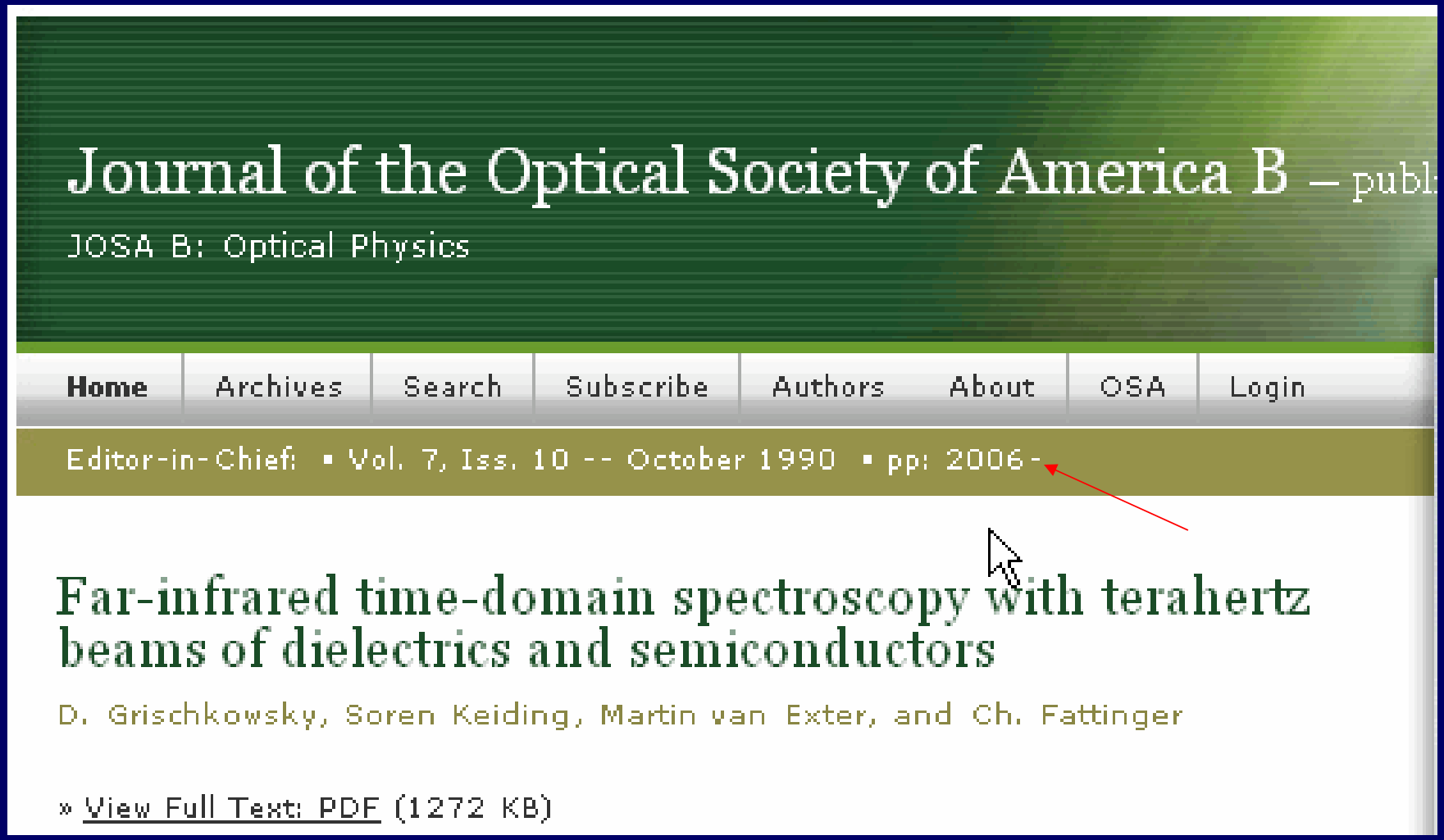


Is this illiteracy and/or innumeracy and/or … ?

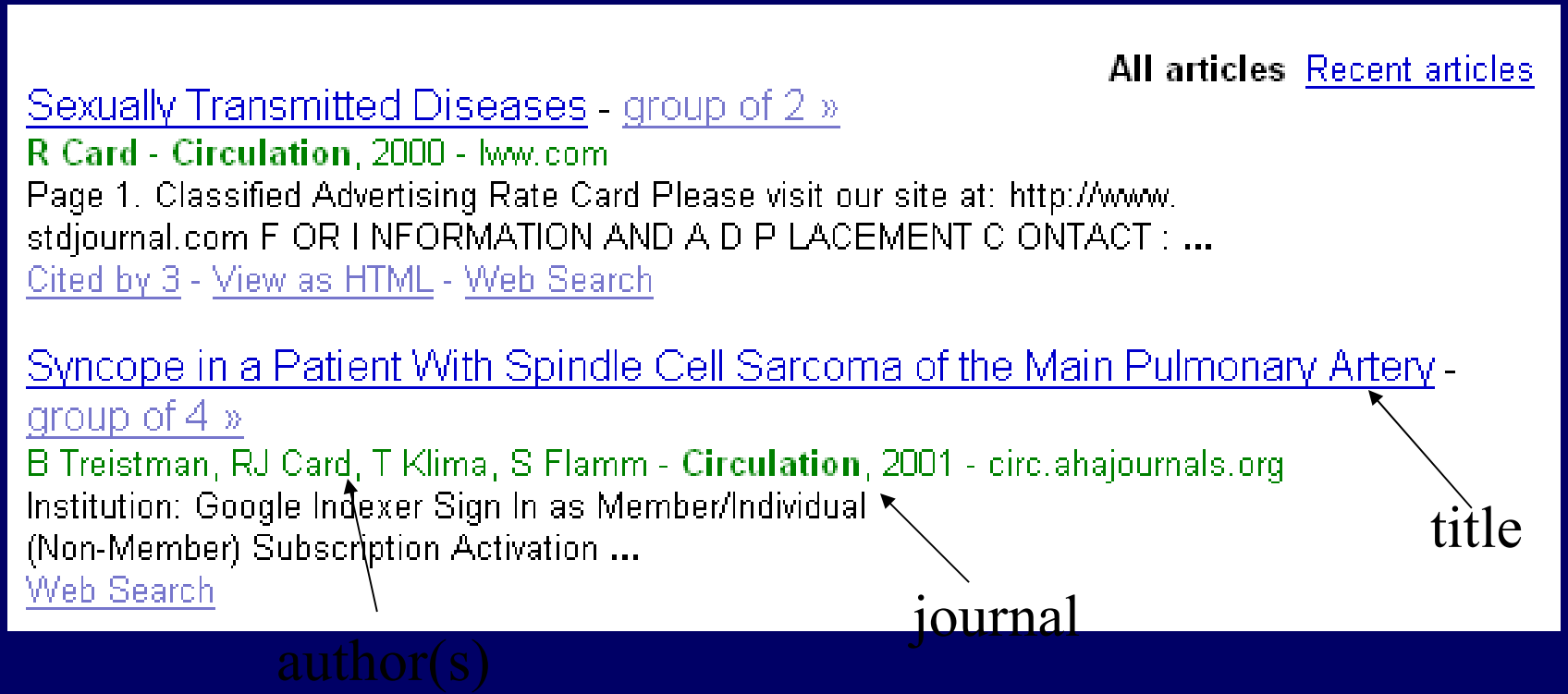
The search was done in October, 2005



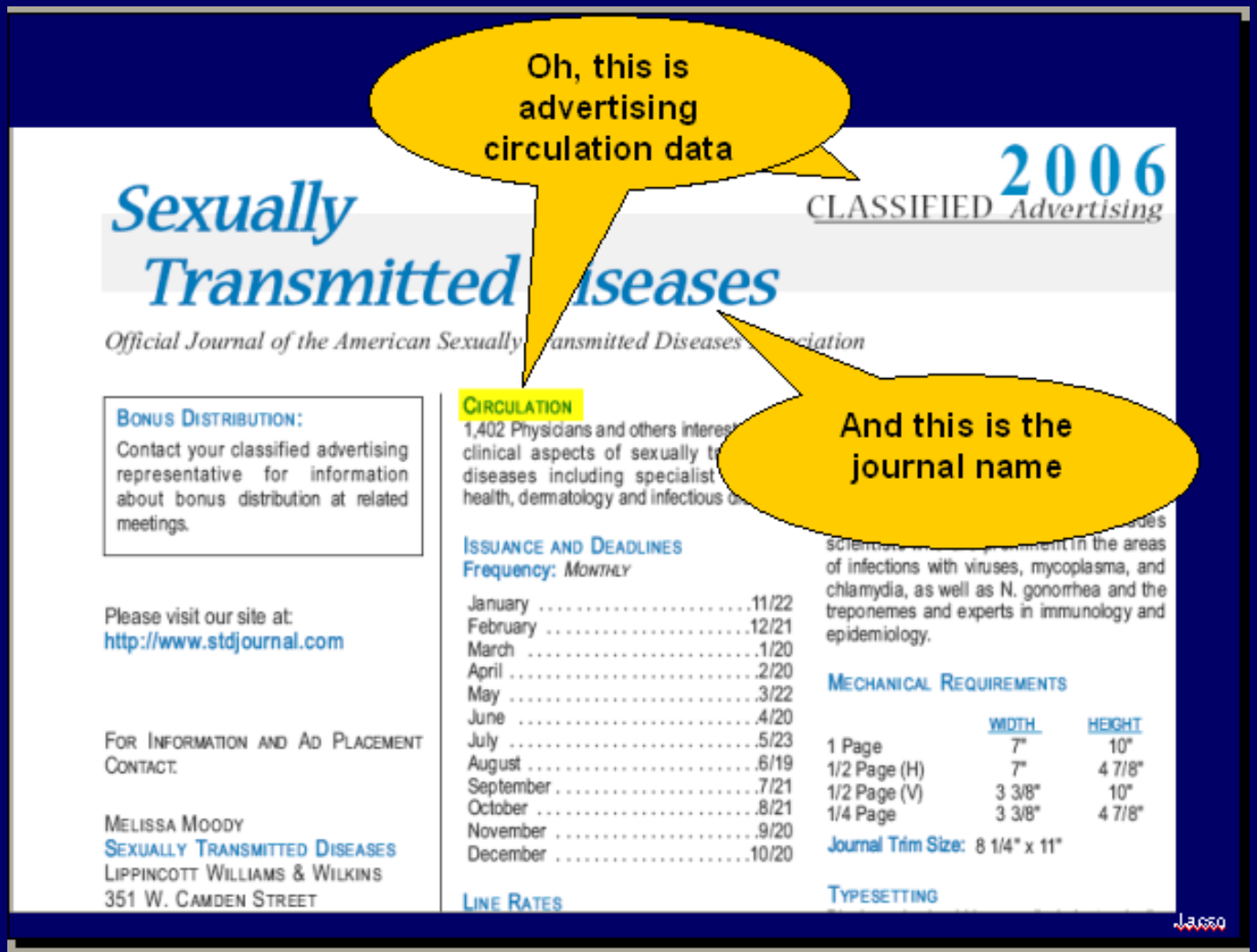
The year turns iut to be a page number



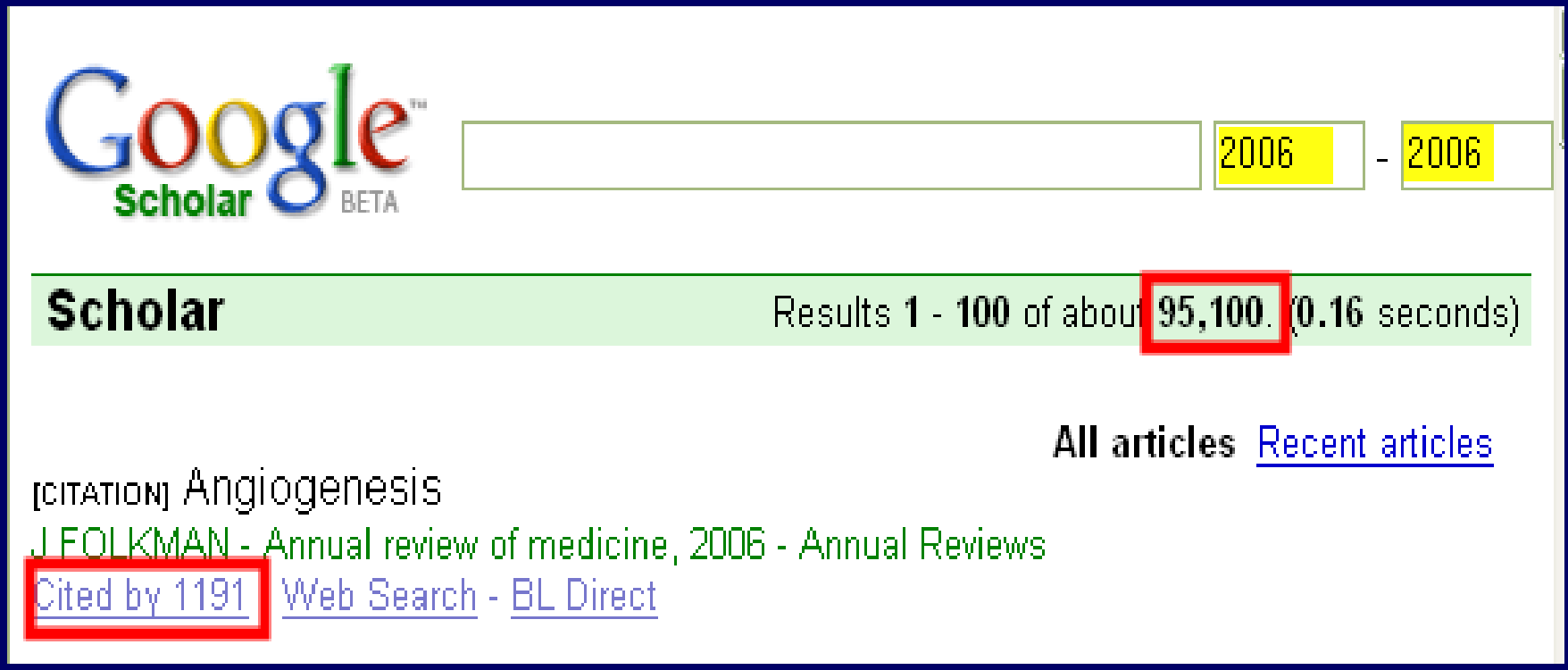
What is cited, who is cited



Not exactly an article, not from *Circulation* and not by R. Card but was cited 3 times (autonomous citation indexing a la Google Scholar)



In the first days of 2006 Google Scholar found this chapter from Annual Review of Medicine to have been cited 1,191 times a few months after it was published …Alert the Nobel committee



… or has it ???

Click!

Google Scholar BETA

Scholar Results **1** - **100** of about **1,200** citing **FOLKMAN: Angiogenesis**

The Biology of Vascular Endothelial Growth Factor - group of 3 »
N Ferrara, T Davis-Smyth - Endocrine Reviews - intl-edrv.endojournals.org
Endocrine Society Endocrine Reviews NCI RAPID Program ...
Cited by 1424 - Web Search - BL Direct doesn't cite it

Inhibition of vascular endothelial growth factor-induced angiogenesis suppresses tumour growth in ... - group of 2 »
KJ Kim, B Li, J Winer, M Armanini, N Gillett, HS ... - Nature, 1993 - nature.com
Nature 362, 841 - 844 (29 April 1993); doi:10.1038/362841a0. Inhibition of vascular endothelial growth factor-induced angiogenesis ...
Cited by 1166 - Web Search - BL Direct doesn't cite it

Heterozygous embryonic lethality induced by targeted inactivation of the VEGF gene - group of 2 »
N Ferrara, K Carver-Moore, H Chen, M Dowd, L Lu, ... - Nature, 1996 - nature.com
doesn't cite it