Introduction to Bibliometrics

and

Tools for Organizing References

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ESO Library
esolib@eso.org

Astronomy

evaluate?

Possible measures

- Number of talks
- Invitations to conferences
- Students, graduations
- Press releases
- Research grants
- Number of papers → **bibliometrics**

Bibliometrics

Set of methods used for publication and citation analysis

in order to explore impact in respective field.

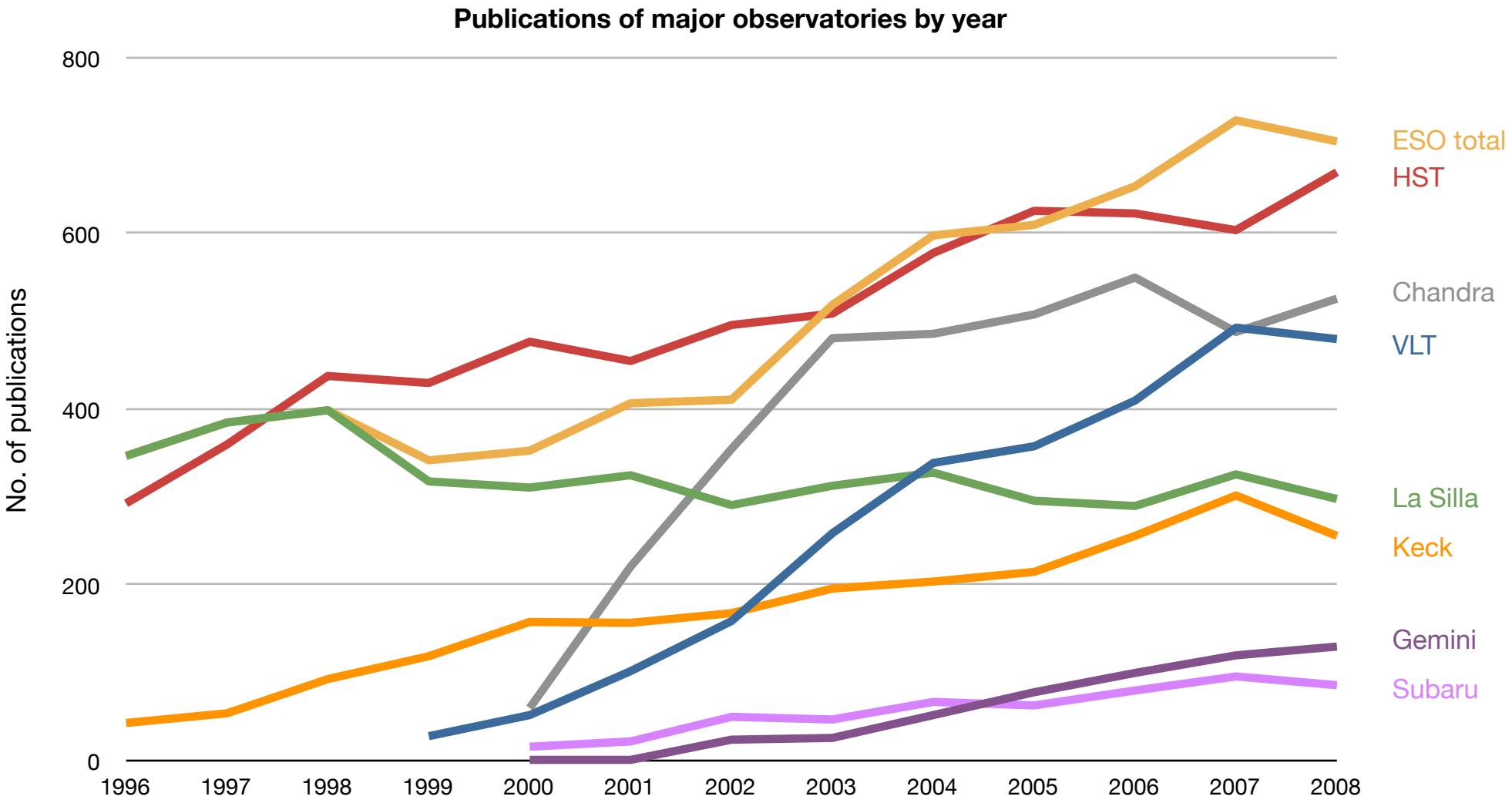
Bibliometrics

Ingredients:

- “Objects” for evaluation (researchers, observatories)
- Appropriate measures (methods)
- Pool of information (publication & citation databases)

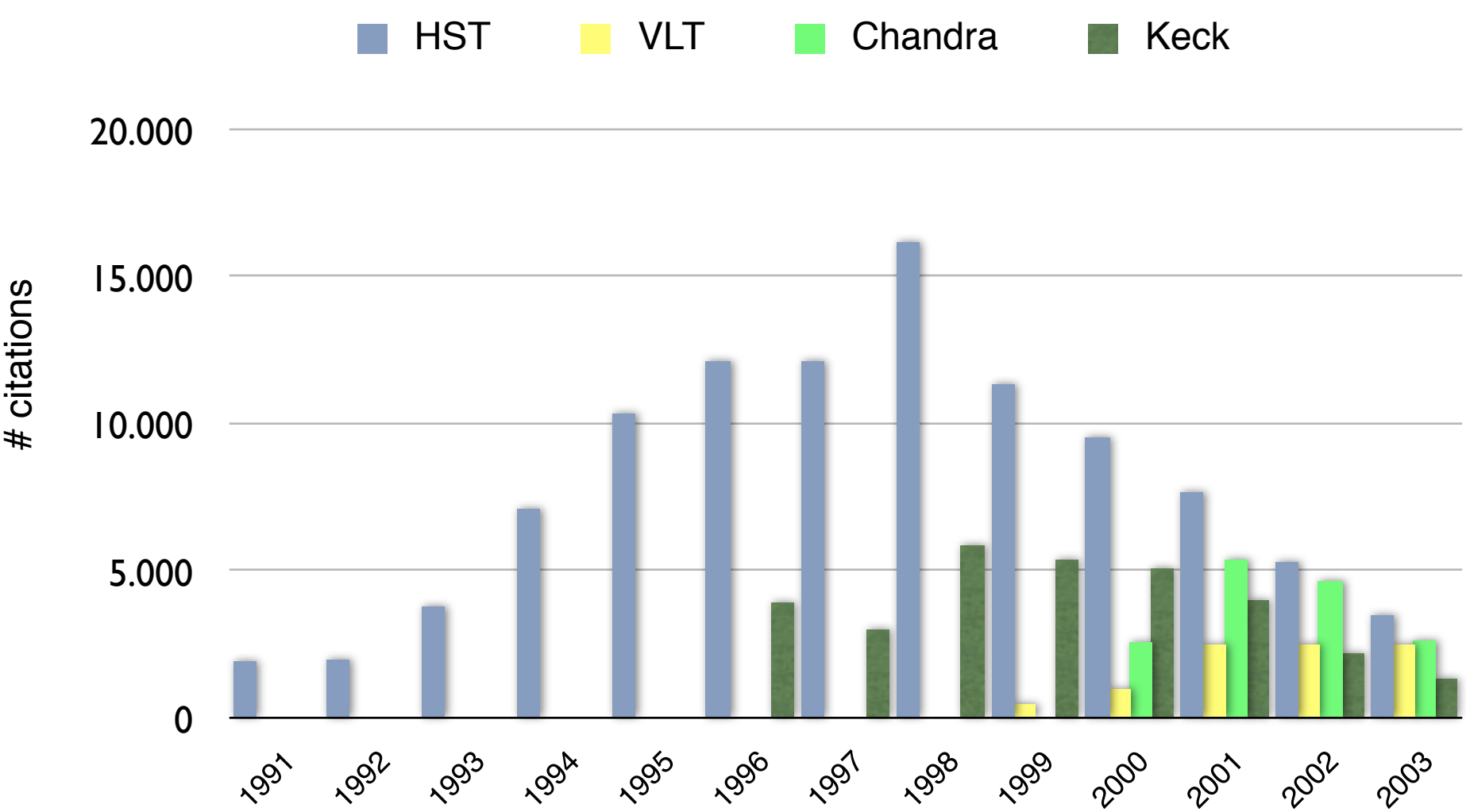
Common Methods of Evaluation

	Good	Bad
# Publications	productivity	no impact


Publications of major observatories by year
No. of publications
800
600
400
200
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
ESO total
HST
Chandra
VLT
La Silla
Keck
Gemini
Subaru

Common Methods of Evaluation

	Good	Bad
# Publications	productivity	no impact
# Citations	impact	delayed


HST
VLT
Chandra
Keck
citations
20.000
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1991
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2001
2002
2003

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mean / median cites per paper	allows comparison of different ages	rewards low productivity

Common Methods of Evaluation

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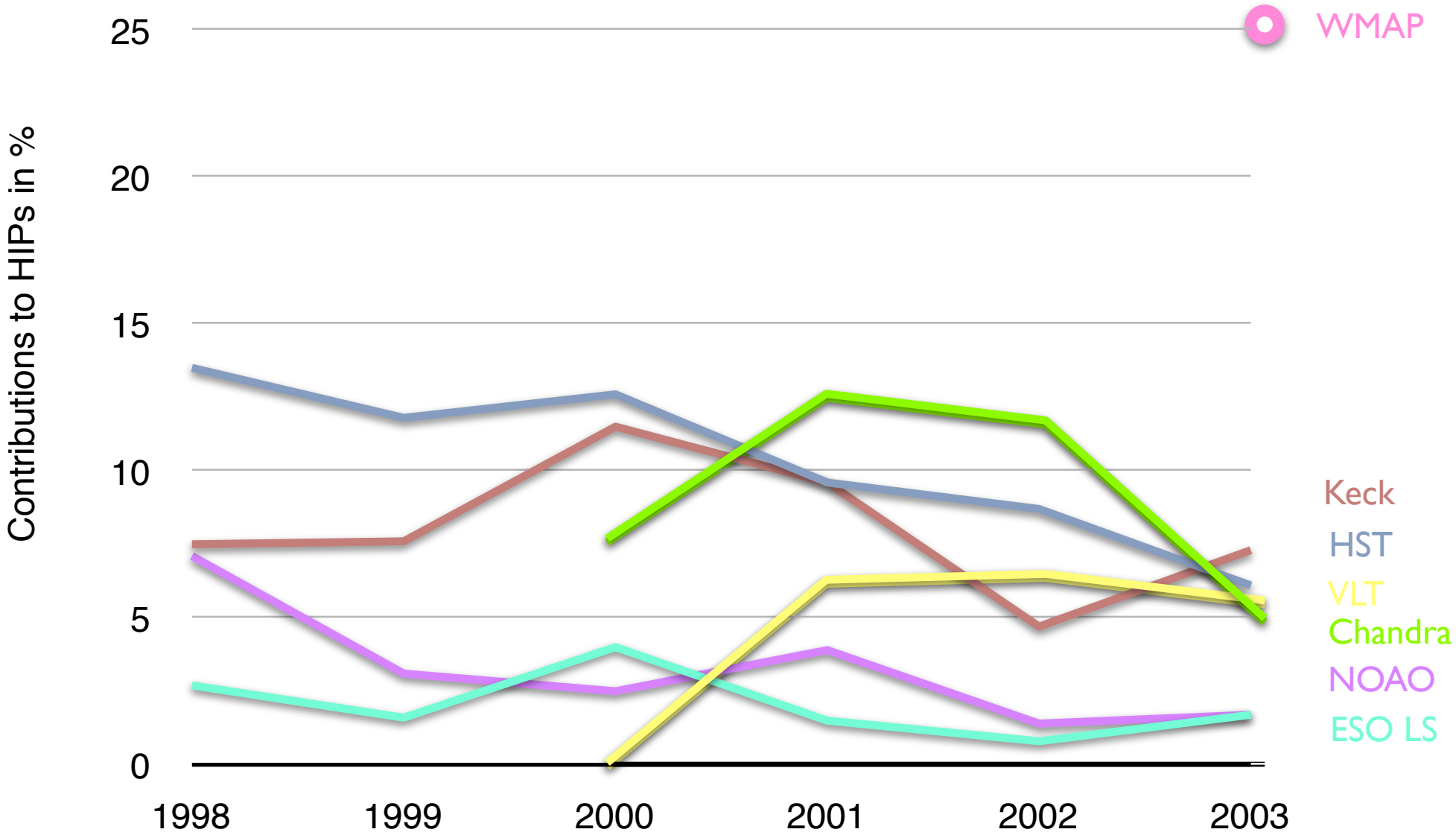
‘High-Impact Papers’	shows trends	favors ‘hot topics’

High Impact Papers 2005

from Juan Madrid (STScI)



The World's Top Ten Telescopes [2006]

comments on this story

Stories by subject

- Space and astronomy

Stories by keywords

- Telescopes
- Hubble
- Sloan Digital Sky Survey
- Gemini

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Published online 6 February 2009 | Nature | doi:10.1038/news.2009.81

News

The world's top ten telescopes revealed

The best observatories ranked by their scientific impact.

Eric Hand

It doesn't take a big mirror to have a big impact. The Sloan Digital Sky Survey, a project conducted with a modest 2.5-metre-wide telescope in New Mexico, performed the most highly cited science in 2006, according to a new analysis of the top ten 'high impact' astronomical observatories[1].

SDSS image of Messier 51, the Whirlpool Galaxy.

Sloan Digital Sky Survey

"It measures how hot the science of the telescope is," says Juan Madrid of McMaster University in Hamilton, Canada, of the top-ten table he has released for most years since 1998. "In a way it measures how good the time-allocation committee is and how good the telescope is. I will also say it measures how good the

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Common Methods of Evaluation

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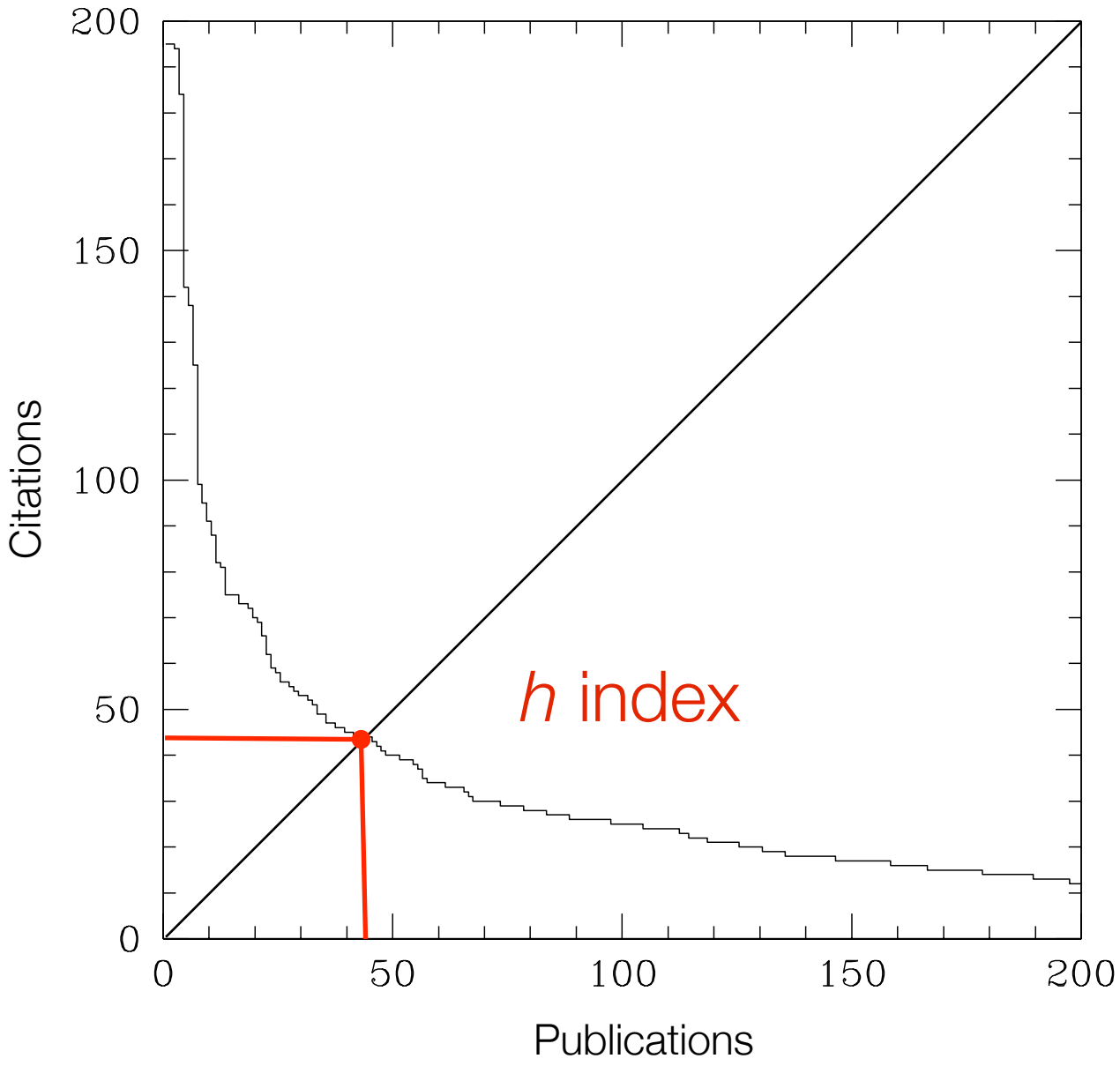
‘High-Impact Papers’	shows trends	favors ‘hot topics’
h-index	productivity + impact	determined by years of operation

h-index



h papers with
at least
h citations each

(Hirsch 2005)

h-index from the ADS

no. citations

34	1991MNRAS.249..742M	37.000	04/1991	A	F G
	McHardy, I. M.; Abraham, R. G.; Crawford, C. S.; Ulrich, M.-H.; Mock, P. C.; Vanderspeck, R. K.	PKS1413 + 135 - A BL Lac object in a			
35	2003ApJ...588..218A	35.000	05/2003	A	E F
	Abraham, Roberto G.; van den Bergh, Sidney; Nair, Preethi	A New Approach to Galaxy Morpholog			
36	2002ApJ...570...54C	35.000	05/2002	A	E F
	Chen, Hsiao-Wen; McCarthy, P. J.; Marzke, R. O.; Wilson, J.; Carlberg, R. G.; Firth, A. E.; Persson, S. E.; Sabbey, C. N.; Lewis, J. R.; McMahon, R. G.; and 9 coauthors	The Las Campanas Infrared Survey. III. Photometric Catalogs			

h-index / *m*-parameter

- *h* will be different for different disciplines and for different sub-fields within a discipline (e.g., planetary vs. UV astronomy)
- does not reflect number of years of activity
- *m*-parameter: $m = h / t$

Problems

Caveats of citation analysis:

- Incompleteness: listings often incomplete
- Incorrectness: incorrect citing, multiple journal abbreviations
- Citing behavior: cite well-known authors, friends citing friends
- Multi-author papers: self-cites (introduce normalized citation counts)

✳ Retrieving citations: don't rely on only one source

✳ Beware comparisons

✳ Bad style: citing without reading original

Citations vs. Reads

· Find Similar Abstracts (with default settings below)
· Full Refereed Journal Article (PDF/Postscript)
· Full Refereed Scanned Article (GIF)
· arXiv e-print (arXiv:astro-ph/9503101)
· On-line Data
· References in the article
· Citations to the Article (174) (Citation History)
· Refereed Citations to the Article
· Also-Read Articles (Reads History)
·
· Translate This Page

Title:	The morphological identification of the rapidly evolving population of faint galaxies
Authors:	Glazebrook, Karl; Ellis, Richard; Santiago, Basilio; Griffiths, Richard
Affiliation:	AA(Institute of Astronomy, Madingley Road, Cambridge CB3 0HA, UK), AB(Institute of Astronomy, Madin CB3 0HA, UK), AC(Institute of Astronomy, Madingley Road, Cambridge CB3 0HA, UK), AD(Department Astronomy, Johns Hopkins University, 3400 North Charles St, Baltimore, MD 21218, USA)
Publication:	Monthly Notices of the Royal Astronomical Society, Volume 275, Issue 2, pp. L19-L22. (MNRAS Homepage)
Publication Date:	07/1995
Origin:	MNRAS; KNUDSEN
MNRAS Keywords:	SURVEYS, GALAXIES: EVOLUTION, GALAXIES: STRUCTURE, GALAXIES: PECULIAR, COSMOLC
Abstract Copyright:	(c) 1995 The Royal Astronomical Society
Bibliographic Code:	1995MNRAS.275L..19G

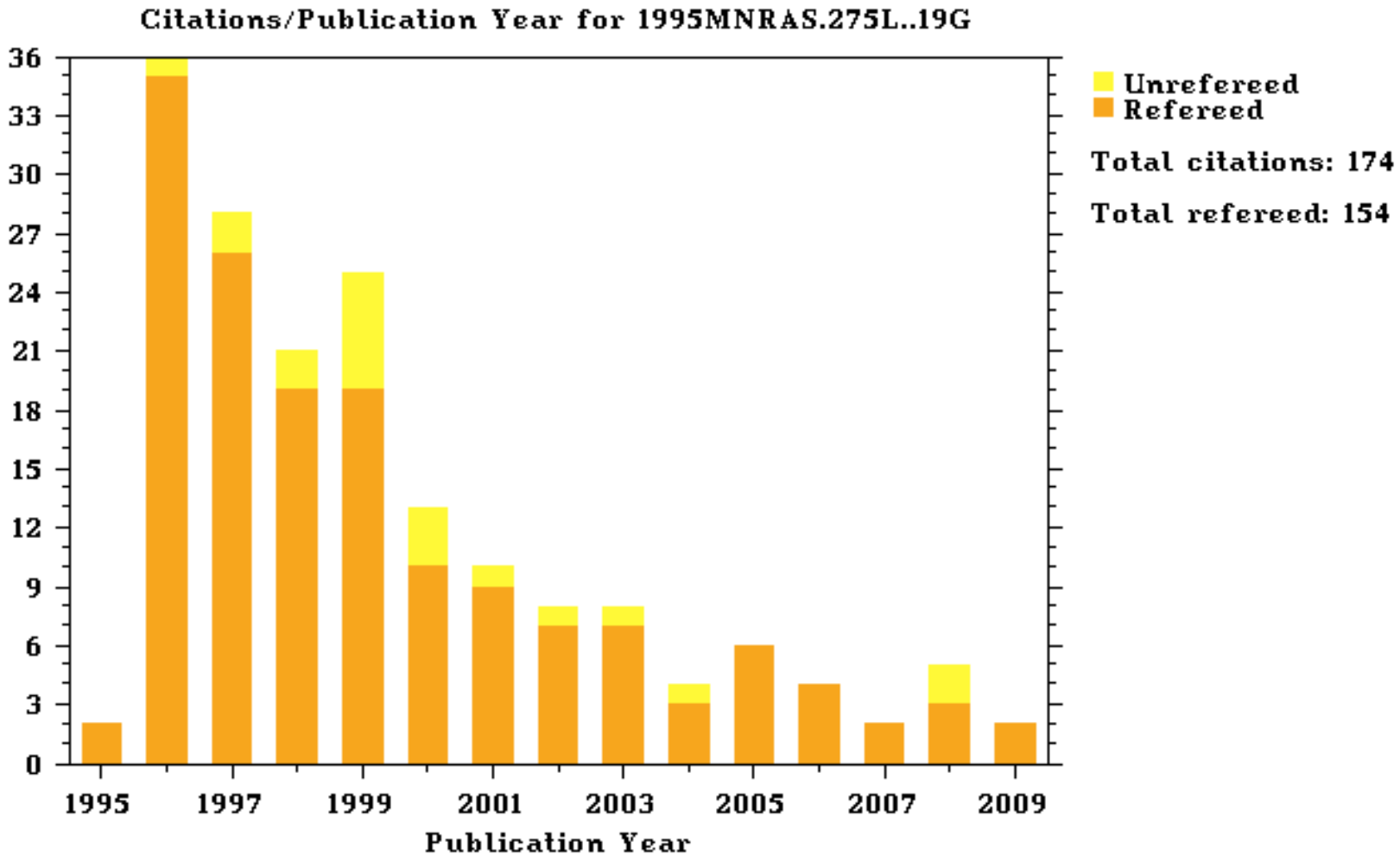
Abstract

The excess numbers of blue galaxies at faint magnitudes are a long-standing cosmological puzzle. We present new number-magnitude galactic morphology from the first deep fields of the Cycle 4 Hubble Space Telescope Medium Deep Survey project. From a sample o

Citations vs. Reads

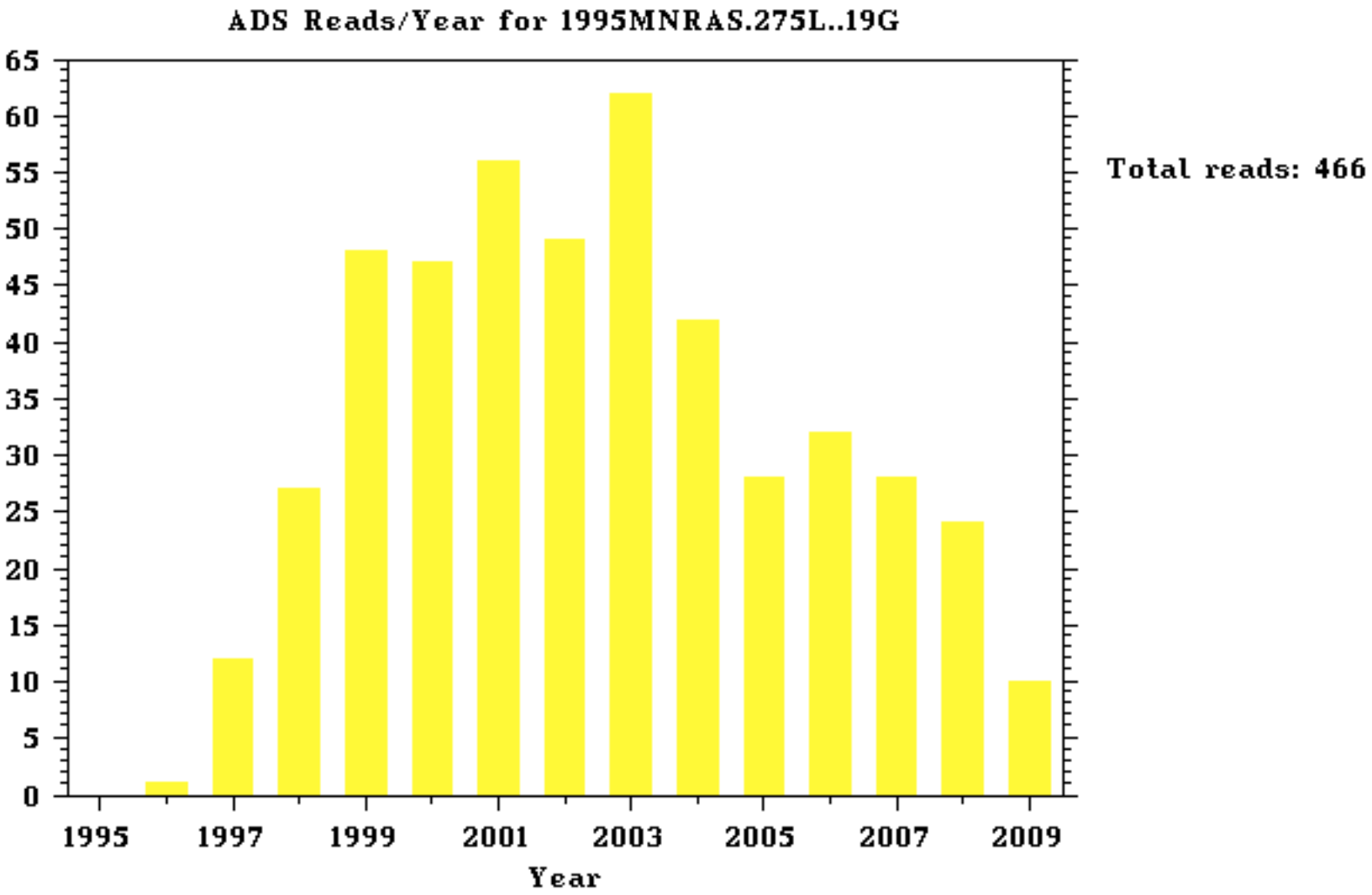
Citations history for 1995MNRAS.275L..19G from the ADS Databases

The Citation database in the ADS is **NOT** complete. Please keep this in mind when using the ADS Citation lists.

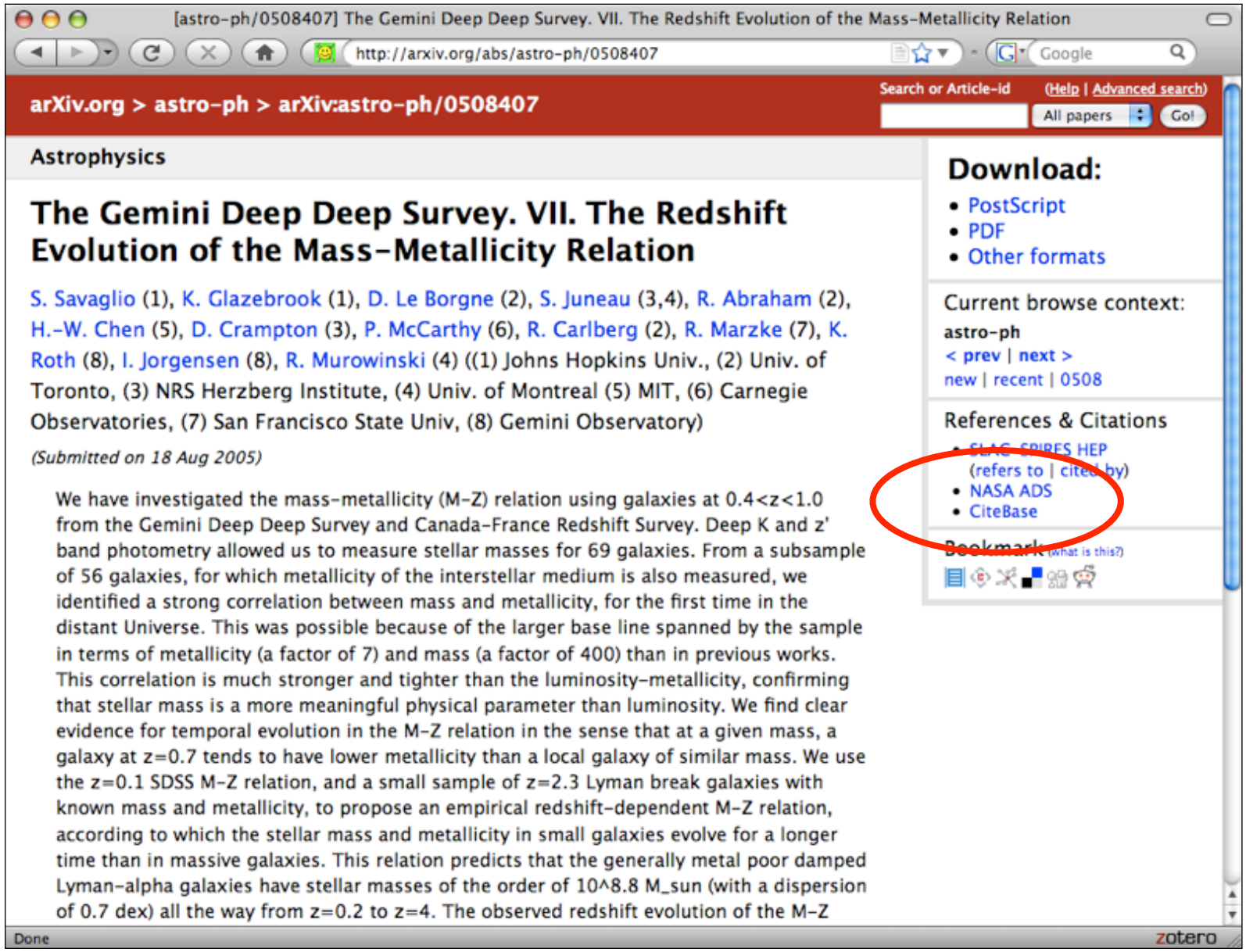


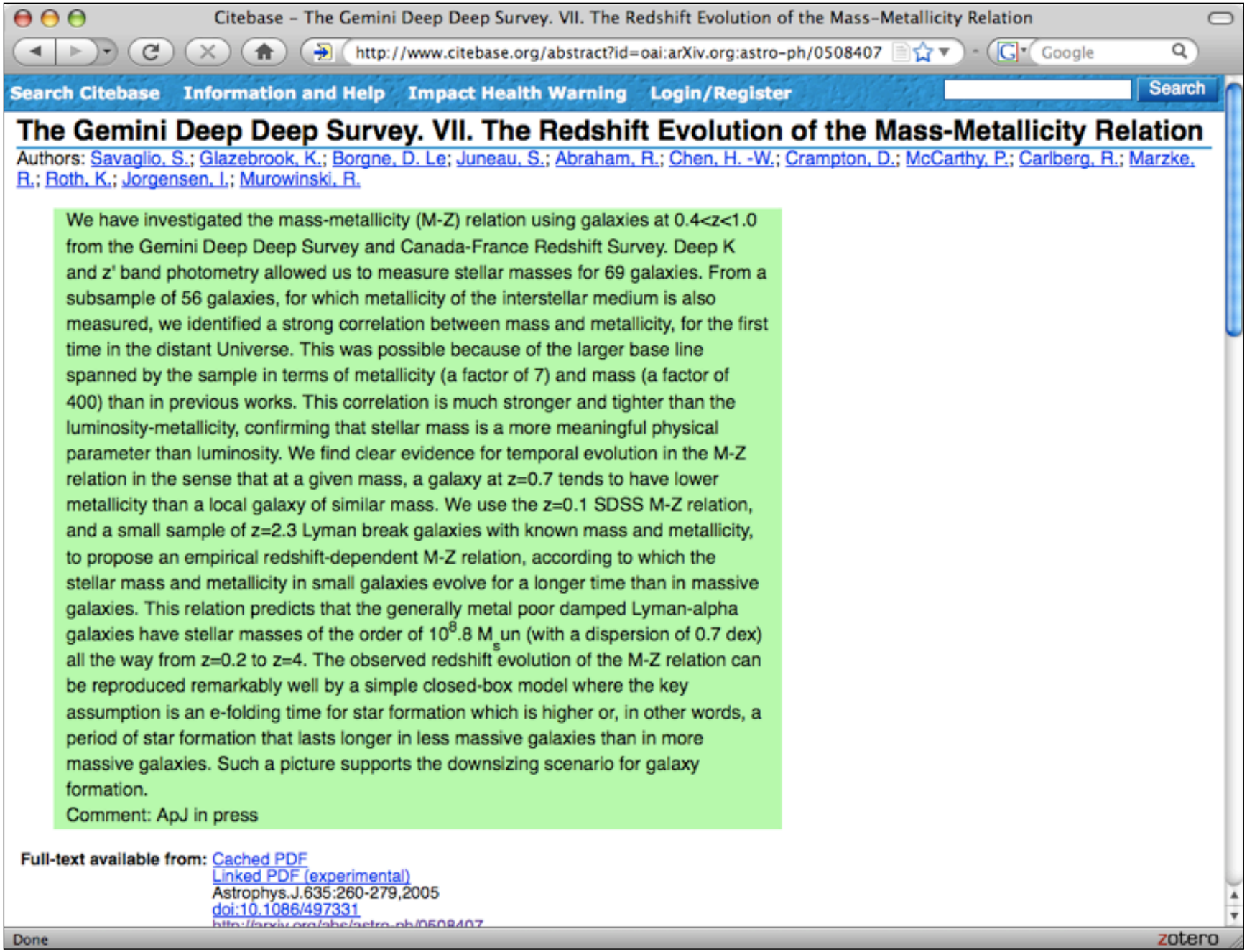
Citations vs. Reads

Reads history for 1995MNRAS.275L..19G from the ADS Databases



Downloads from CiteBase




Citebase – The Gemini Deep Deep Survey. VII. The Redshift Evolution of the Mass-Metallicity Relation
http://www.citebase.org/abstract?id=oai:arXiv.org:astro-ph/0508407
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The Gemini Deep Deep Survey. VII. The Redshift Evolution of the Mass-Metallicity Relation
Authors: Savaglio, S.; Glazebrook, K.; Borgne, D. Le; Juneau, S.; Abraham, R.; Chen, H. -W.; Crampton, D.; McCarthy, P.; Carlberg, R.; Marzke, R.; Roth, K.; Jorgensen, I.; Murowinski, R.
We have investigated the mass-metallicity (M-Z) relation using galaxies at 0.4<z<1.0 from the Gemini Deep Deep Survey and Canada-France Redshift Survey. Deep K and z' band photometry allowed us to measure stellar masses for 69 galaxies. From a subsample of 56 galaxies, for which metallicity of the interstellar medium is also measured, we identified a strong correlation between mass and metallicity, for the first time in the distant Universe. This was possible because of the larger base line spanned by the sample in terms of metallicity (a factor of 7) and mass (a factor of 400) than in previous works. This correlation is much stronger and tighter than the luminosity-metallicity, confirming that stellar mass is a more meaningful physical parameter than luminosity. We find clear evidence for temporal evolution in the M-Z relation in the sense that at a given mass, a galaxy at z=0.7 tends to have lower metallicity than a local galaxy of similar mass. We use the z=0.1 SDSS M-Z relation, and a small sample of z=2.3 Lyman break galaxies with known mass and metallicity, to propose an empirical redshift-dependent M-Z relation, according to which the stellar mass and metallicity in small galaxies evolve for a longer time than in massive galaxies. This relation predicts that the generally metal poor damped Lyman-alpha galaxies have stellar masses of the order of 10^8.8 M_sun (with a dispersion of 0.7 dex) all the way from z=0.2 to z=4. The observed redshift evolution of the M-Z relation can be reproduced remarkably well by a simple closed-box model where the key assumption is an e-folding time for star formation which is higher or, in other words, a period of star formation that lasts longer in less massive galaxies than in more massive galaxies. Such a picture supports the downsizing scenario for galaxy formation.
Comment: ApJ in press
Full-text available from: Cached PDF
Linked PDF (experimental)
Astrophys.J.635:260-279,2005
doi:10.1086/497331
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Citebase – The Gemini Deep Deep Survey. VII. The Redshift Evolution of the Mass-Metallicity Relation

http://www.citebase.org/abstract?id=oai:arXiv.org:astro-ph/0508407

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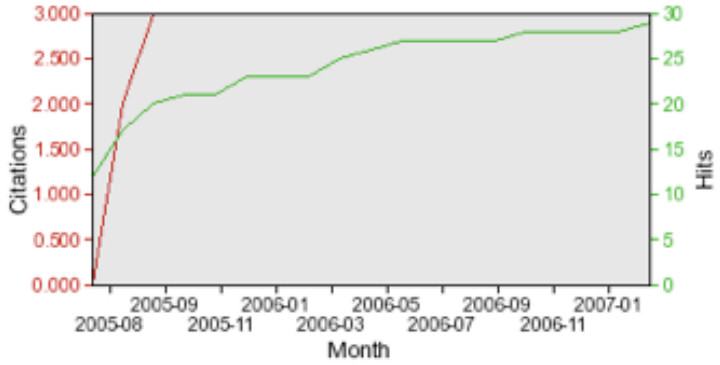

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The Mass-Metallicity Relation at z~2 [Abstract, 15 Cites, , Pre-print PDF]
15 Erb, Dawn K.; Shapley, Alice E.; Pettini, Max et al (2006-02-21) oai:arXiv.org:astro-ph/0602473
We use a sample of 87 rest-frame UV-selected star-forming galaxies with mean spectroscopic redshift z=2.26 to study the correlation between metallicity and stellar mass at high redshift. Using stellar masses determined from SED fitting to 0.3-8 micron photometry, we divide the sample into six bins in ... Comment: 18 pages, 9 figures, 2 tables; accepted for publication in ApJ

Velocity-Metallicity Correlation for high-z DLA Galaxies: Evidence for a Mass-Metallicity Relation? [Abstract, 12 Cites, , Pre-print PDF]
12 Ledoux, C.; Petitjean, P.; Fynbo, J. P. U. et al (2006-06-08) In *ASTRON.ASTROPHYS. 457 71 (2006)*
We used our database of VLT-UVES quasar spectra to build up a sample of 70 Damped Lyman-alpha (DLA) or strong sub-DLA systems with total neutral hydrogen column densities of log N(HI)>20 and redshifts in the range

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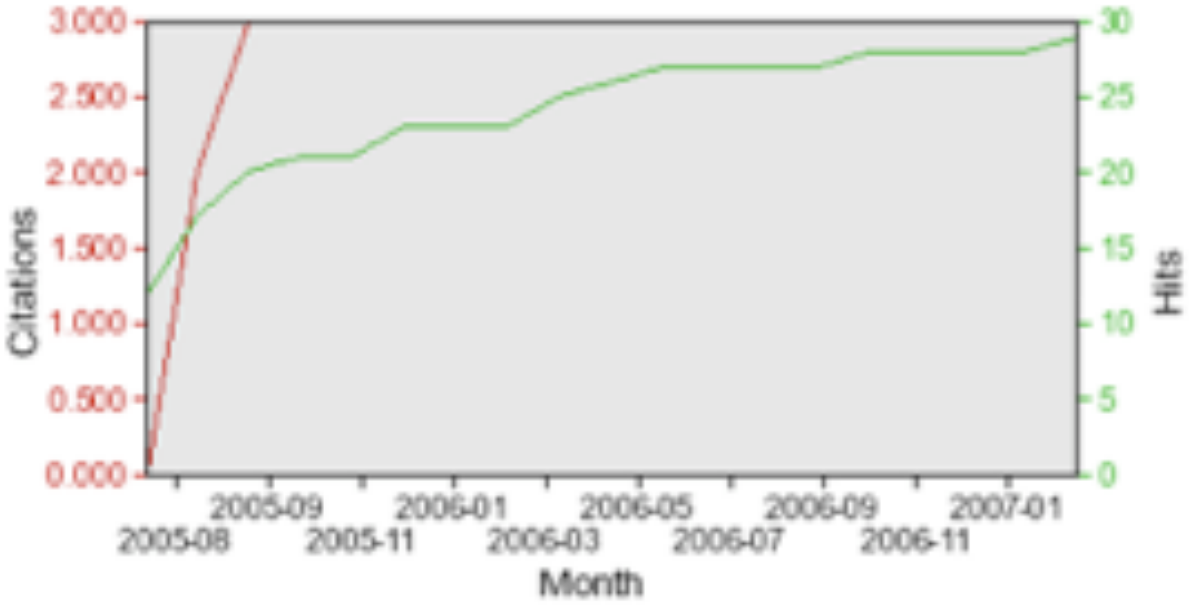

We use a sample of 87 rest-frame UV-selected star-forming galaxies with mean spectroscopic redshift z=2.26 to study the correlation between metallicity and stellar mass at high redshift. Using stellar masses determined from SED fitting to 0.3-8 micron photometry, we divide the sample into six bins in ... Comment: 18 pages, 9 figures, 2 tables; accepted for publication in ApJ

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Done

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Telescope Bibliographies

- Scientific papers that use observational data
- Databases maintained by observatory librarians
- Authors acknowledge use of data (new and archival)

  - Why do observatories bother?
    - scientific impact of telescopes
    - funding authorities (productivity)
    - guidelines for future facilities

  - Why should you bother?
    - acknowledgement demanded by funding agencies
    - helps OPCs keep track of output from facilities; may influence future obs time
    - visibility (observations with renowned facilities)

Acknowledging Telescope Time

Publications with ESO Data

www.eso.org/sci/observing/policies/publications.html

“Publications based on observations collected at the ESO La Silla Paranal Observatory should mention in a footnote on the first page "Based on observations collected at the European Organisation for Astronomical Research in the Southern Hemisphere, Chile" including the corresponding observing proposal which should clearly be identified by its ESO number (example: 072.A-0555).”

ADS Data Links

SAO/NASA Astrophysics Data System (ADS)

Query Results from the ADS Database

Selected and retrieved **62** abstracts.

#	Bibcode Authors	Score Title	Date	List of Links Access Control Help
1	2007AJ....134.2118F Ferrero, P.; Sanchez, S. F.; Kann, D. A.; Klose, S.; Greiner, J.; Gorosabel, J.; Hartmann, D. H.; Henden, A. A.; Møller, P.; Palazzi, E.; and 11 coauthors	1.000 Constraints on an Optical Afterglow and on Supernova Light Following the Short Burst GI	12/2007	A E F X D R C S U
2	2007A&A...474..793G Guidorzi, C.; Vergani, S. D.; Sazonov, S.; Covino, S.; Malesani, D.; Molkov, S.; Palazzi, E.; Romano, P.; Campana, S.; Chincarini, G.; and 23 coauthors	1.000 GRB 070311: a direct link between the prompt emission and the afterglow	11/2007	A E F X D R C S O U
3	2007A&A...469..503D Dolcini, A.; Farfanelli, F.; Ciprini, S.;	1.000 REM near-IR and optical multiband observations of PKS 2155-304 in 2005	07/2007	A E F X D R C S O U

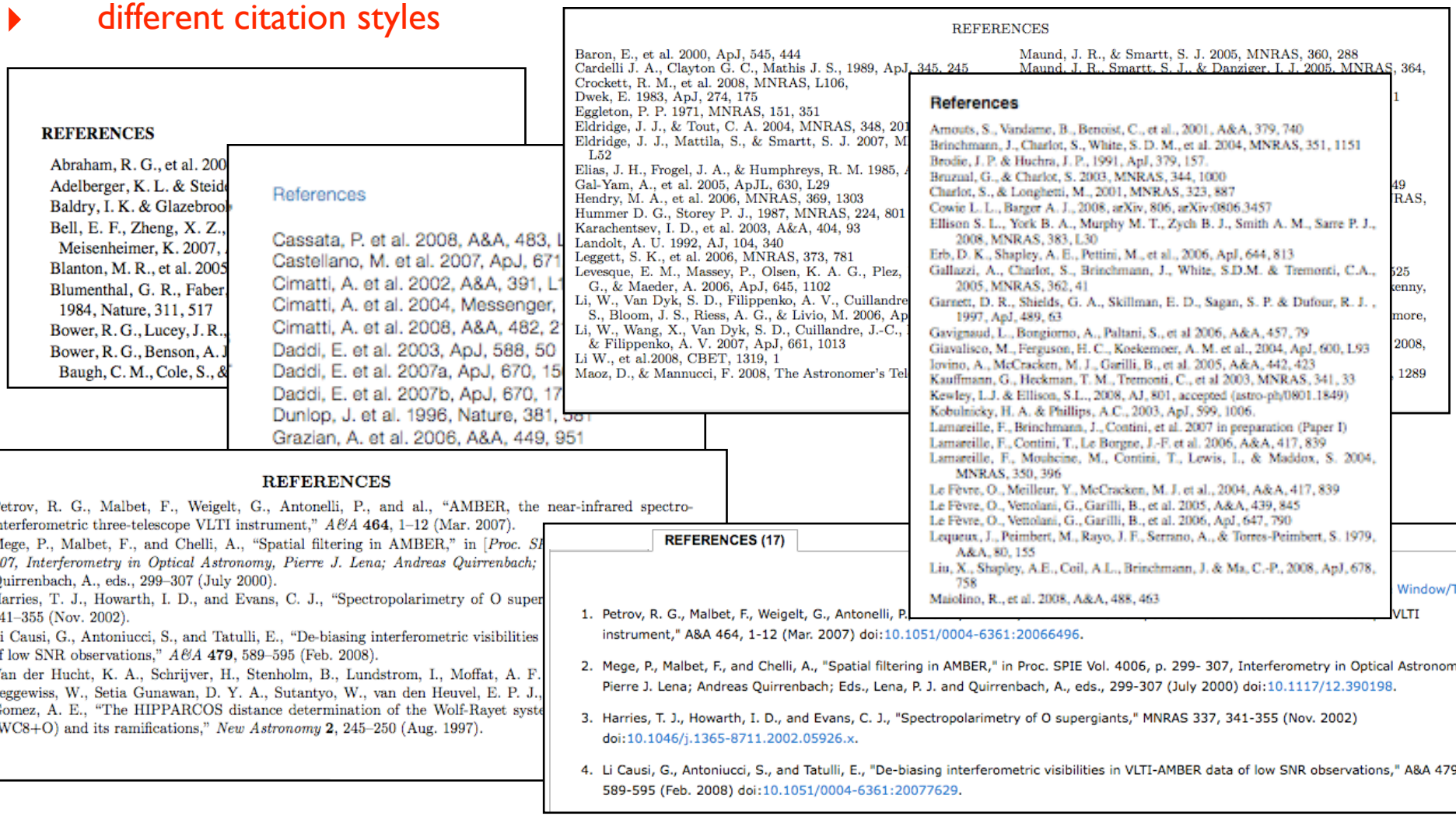
Part 2:

Tools for Organizing References

The Task

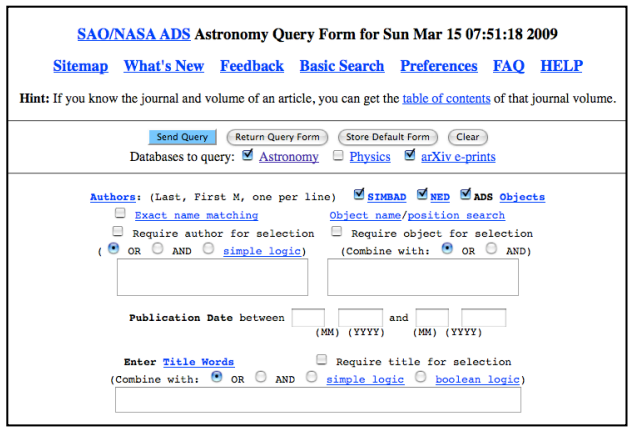
Scientists write papers → reference lists

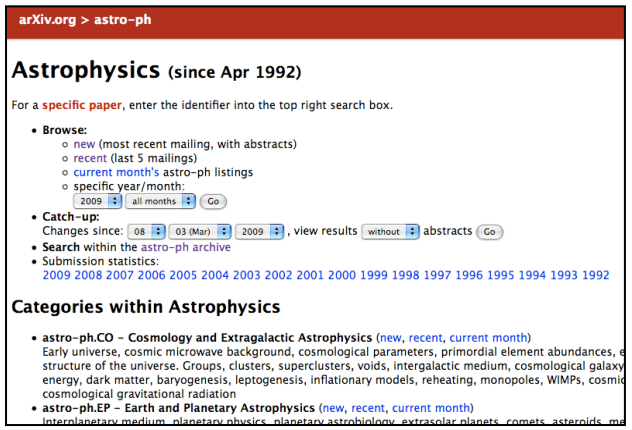
- different references for each paper
- different citation styles



The Preparation

ADS





arXiv

The Problem

There’s help!

Reference Management Software

What is it?

- software for storing information about articles
- bibliographic citations can be used in reference lists

Use

- locally on desktop or web-based

Standard features

- import / create / export records → LaTeX vs. BibTex (.bib files)
- assign notes, keywords, tags
- create (smart) collections
- store articles for off-line reading

LaTeX integrated in document

```
\begin{thebibliography}{99}

\bibitem[2007]{acco07} Accomazzi, A. et~al., 2007: Creation and use of citations in the ADS, in: {\it ``Library and Information Services in Astronomy V"}, eds. S. Ricketts, C. Birdie, E. Isaksson, San Francisco, CA, Astronomical Society of the Pacific, ASP conference series 377, 93, arXiv:cs/0610011v1 [cs.DL]
```

BibTex

bibliography style file necessary

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@inproceedings{accomazzi_creation_2007,
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        volume = {377},
        lccn = {{2007ASPC..377...69A}},
        url = {http://adsabs.harvard.edu/abs/2007ASPC..377...69A},
        abstract = {With over 20 million records, the {ADS} citation database is regularly
used by researchers and librarians to measure the scientific impact of
individuals, groups, and institutions. In addition to the traditional
sources of citations, the {ADS} has recently added references extracted
from the {arXiv} e-prints on a nightly basis. We review the procedures
used to harvest and identify the reference data used in the creation of
citations, the policies and procedures that we follow to avoid
double-counting and to eliminate contributions which may not be
scholarly in nature. Finally, we describe how users and institutions can
easily obtain quantitative citation data from the {ADS,} both
interactively and via web-based programming tools.},
        author = {A.  Accomazzi and G.  Eichhorn and M. J.  Kurtz and C. S.  Grant and E.  Henneken and M.
Demleitner and D.  Thompson and E.  Bohlen and S. S. Murray},
        month = oct,
        year = {2007},
        pages = {69}
}
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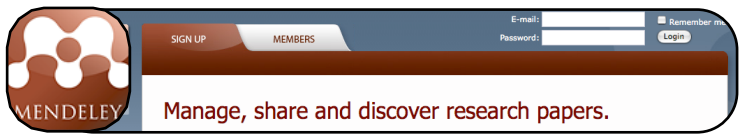
Categories and Brands

Retail:

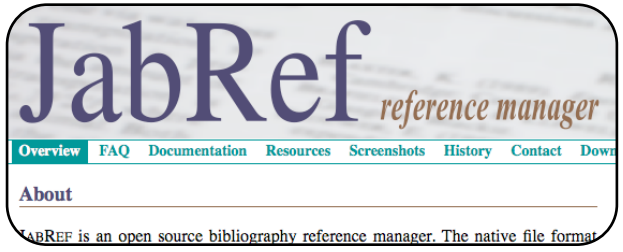
Biblioscape · Bookends · Citavi · EndNote · Papers · ProCite · Reference Manager · RefWorks · Sente · WizFolio

Open source:

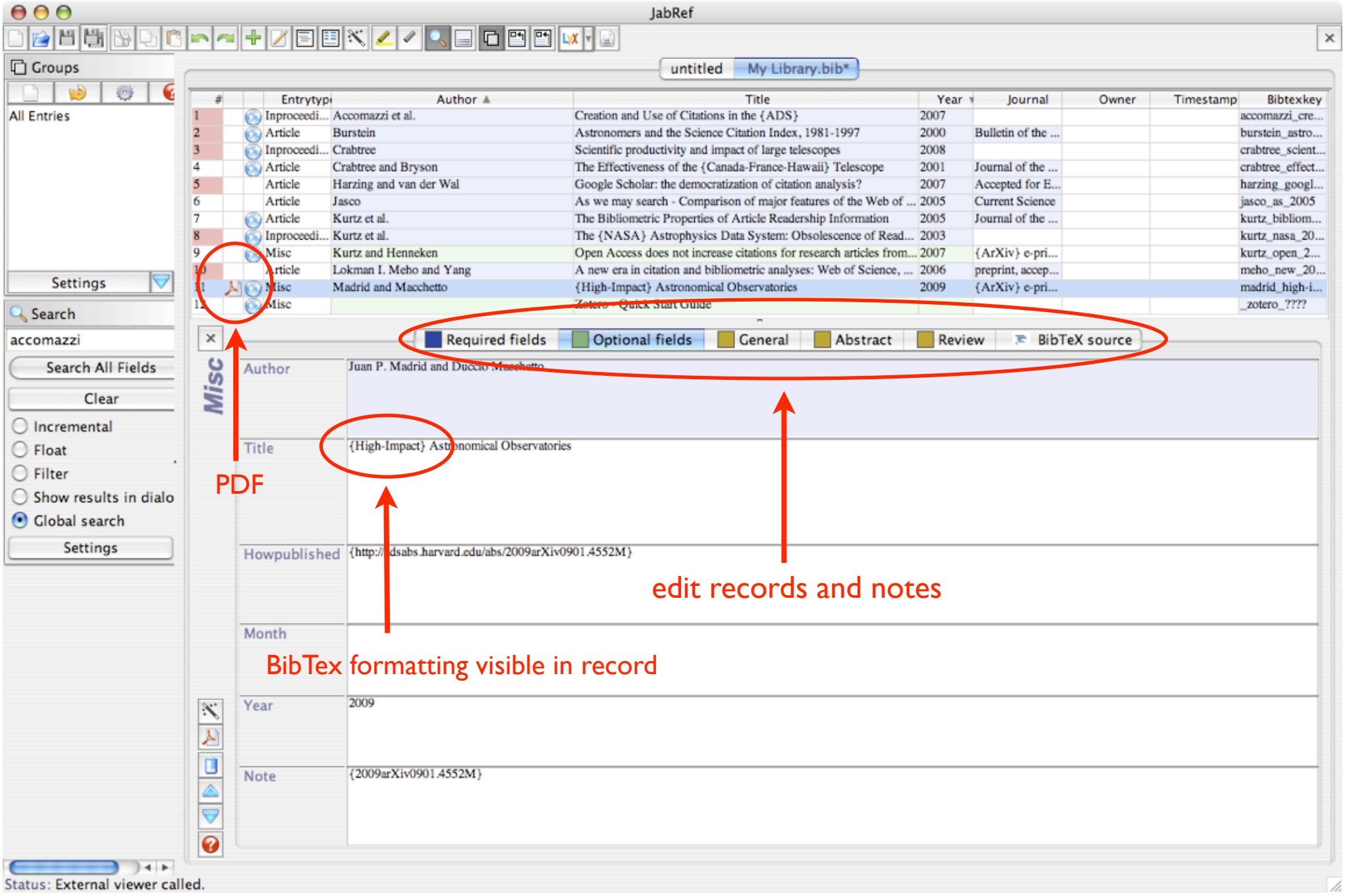
BibDesk · Bibus · Connotea · JabRef · Mendeley · refbase · Referencer · Zotero



see also:
http://en.wikipedia.org/wiki/Comparison_of_reference_management_software



URL	http://jabref.sourceforge.net/
Price	Freeware (GNU General Public License)
Platform	Platform-independent; runs on the Java VM (v.1.5 or newer), should work equally well on Windows, Linux and Mac OS X.
Features	import, organize, annotate, archive
Import	import BibTex library (.bib file), fetch entries from arXiv
PDF	can be read offline
Export	custom export filters (written by users); layout files outside of JabRef
Share	share export filters through SourceForge.net
Note	built around BibTex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5 Article Harzing and van der Wal Google Scholar: the democratization of citation analysis? 2007 Accepted for E... harzing_googl...
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7 Article Kurtz et al. The Bibliometric Properties of Article Readership Information 2005 Journal of the ... kurtz_bibliom...
8 Inproceedi... Kurtz et al. The {NASA} Astrophysics Data System: Obsolescence of Read... 2003 kurtz_nasa_20...
9 Misc Kurtz and Henneken Open Access does not increase citations for research articles from... 2007 {ArXiv} e-pri... kurtz_open_2...
10 Article Lokman I. Meho and Yang A new era in citation and bibliometric analyses: Web of Science, ... 2006 preprint, accep... meho_new_20...
11 Misc Madrid and Macchetto {High-Impact} Astronomical Observatories 2009 {ArXiv} e-pri... madrid_high-i...
12 Misc _zotero_????
Required fields
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Review
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Misc
Author
Juan P. Madrid and Duccio Macchetto
Title
{High-Impact} Astronomical Observatories
Howpublished
{http://adsabs.harvard.edu/abs/2009arXiv0901.4552M}
Month
Year
2009
Note
{2009arXiv0901.4552M}
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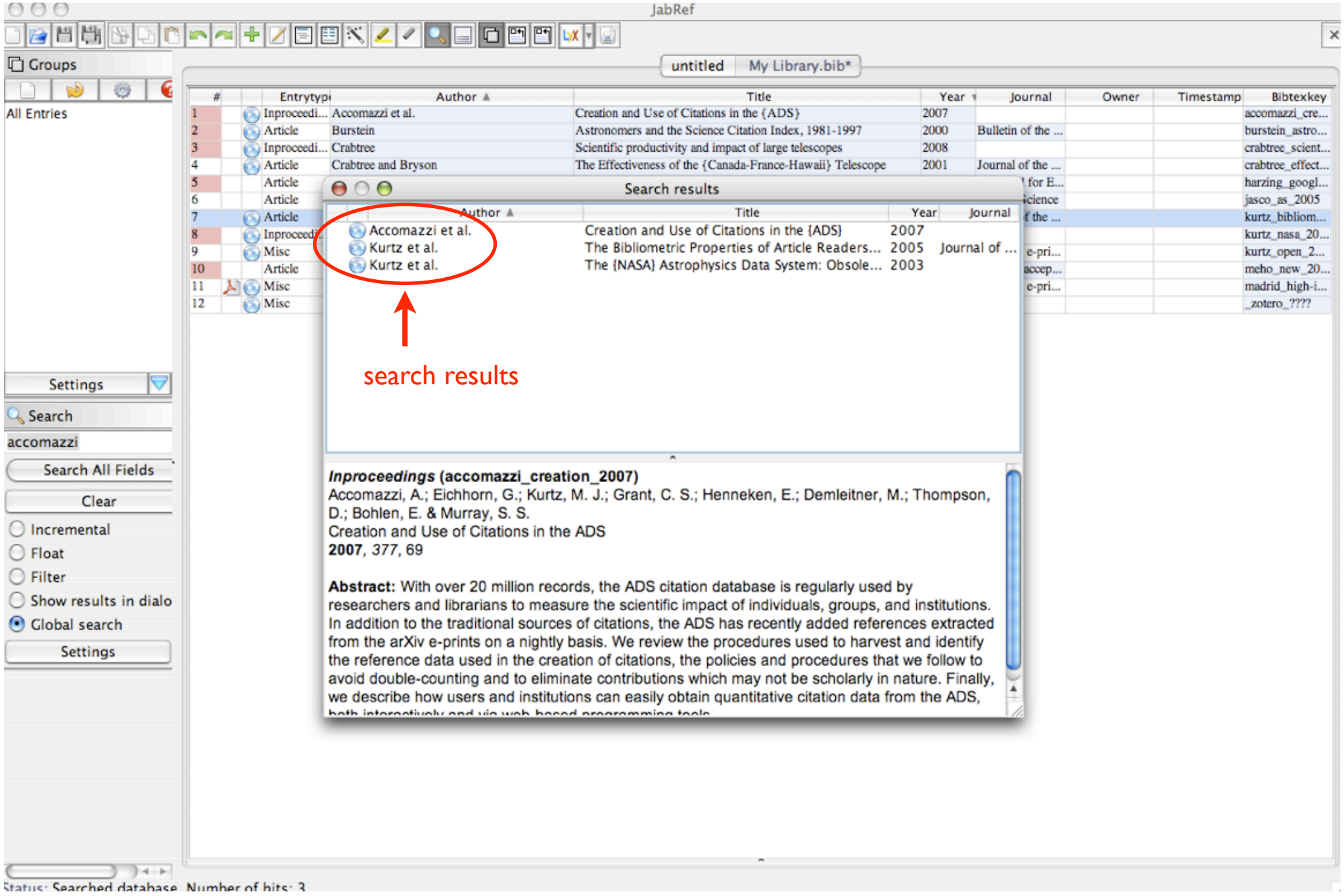
edit records and notes
BibTex formatting visible in record
Status: External viewer called.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2 Article Burstein Astronomers and the Science Citation Index, 1981-1997 2000 Bulletin of the ... burstein_astro...
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4 Article Crabtree and Bryson The Effectiveness of the {Canada-France-Hawaii} Telescope 2001 Journal of the ... crabtree_effect...
5 Article harzing_googl...
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Creation and Use of Citations in the ADS
2007, 377, 69
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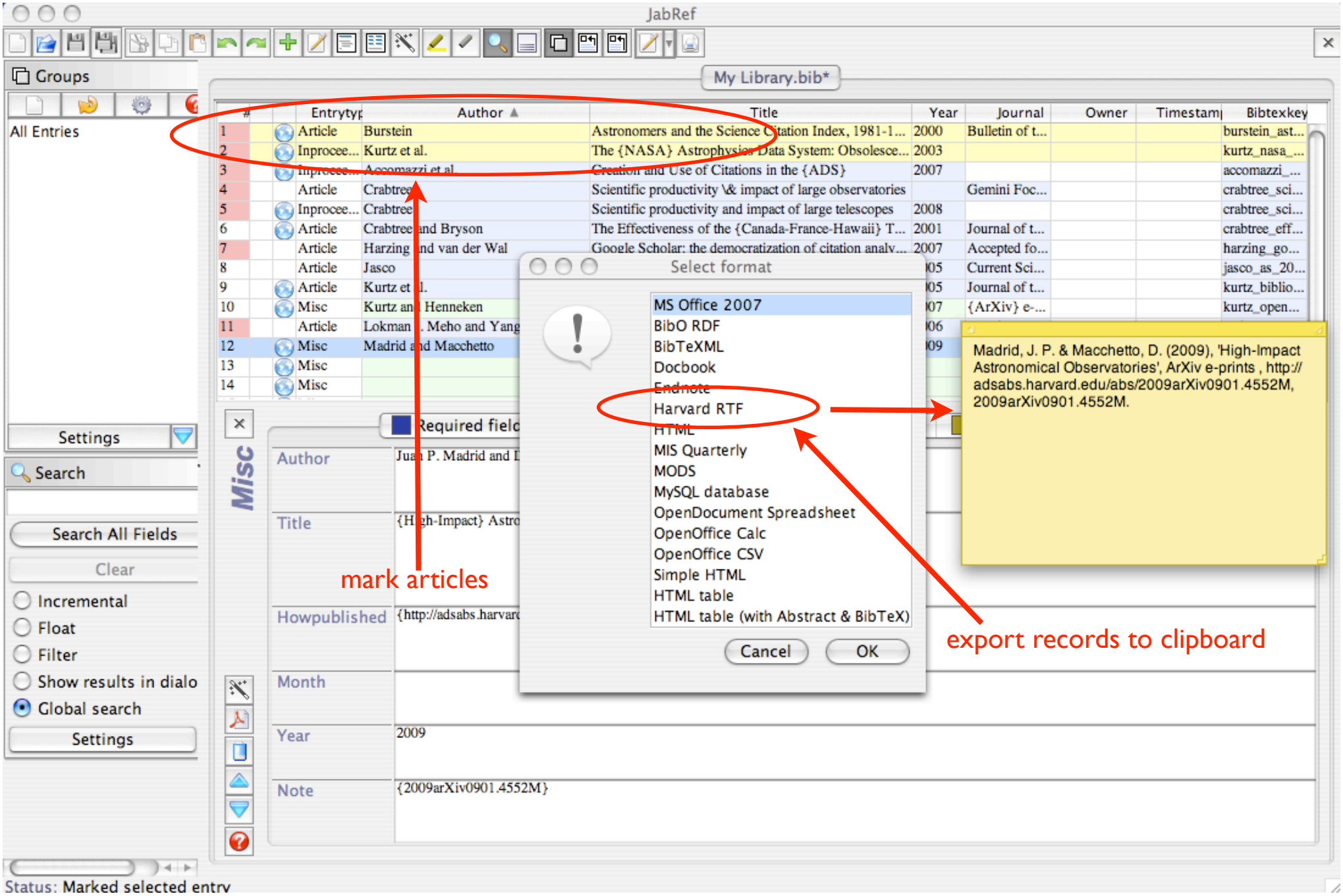
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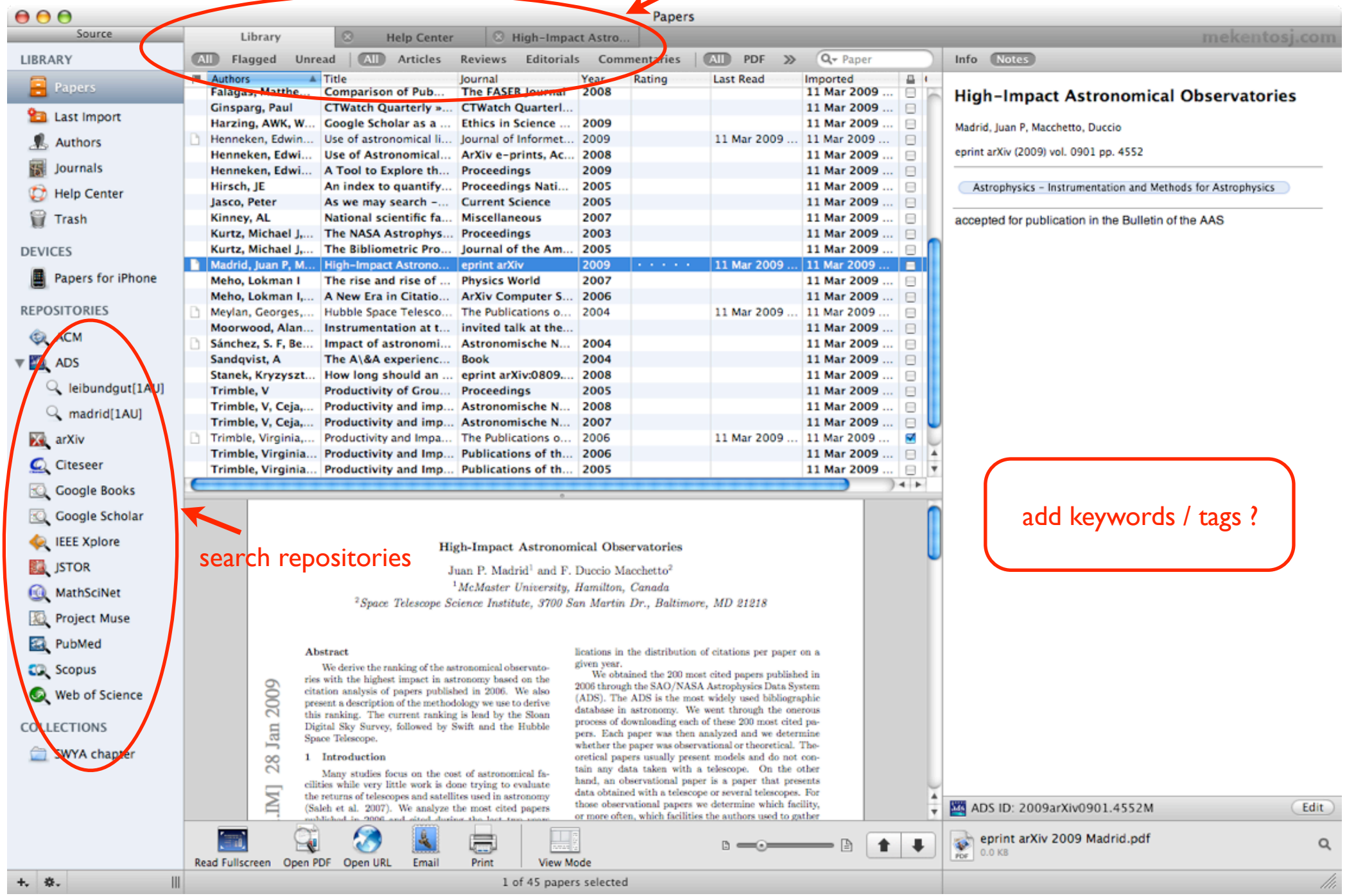
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High-Impact Astronomical Observatories
Juan P. Madrid[1] and F. Duccio Macchetto[2]
[1]McMaster University, Hamilton, Canada
[2]Space Telescope Science Institute, 3700 San Martin Dr., Baltimore, MD 21218
Abstract
We derive the ranking of the astronomical observatories with the highest impact in astronomy based on the citation analysis of papers published in 2006. We also present a description of the methodology we use to derive this ranking. The current ranking is led by the Sloan Digital Sky Survey, followed by Swift and the Hubble Space Telescope.
1 Introduction
Many studies focus on the cost of astronomical facilities while very little work is done trying to evaluate the returns of telescopes and satellites used in astronomy (Saleh et al. 2007). We analyze the most cited papers
lications in the distribution of citations per paper on a given year.
We obtained the 200 most cited papers published in 2006 through the SAO/NASA Astrophysics Data System (ADS). The ADS is the most widely used bibliographic database in astronomy. We went through the onerous process of downloading each of these 200 most cited papers. Each paper was then analyzed and we determine whether the paper was observational or theoretical. Theoretical papers usually present models and do not contain any data taken with a telescope. On the other hand, an observational paper is a paper that presents data obtained with a telescope or several telescopes. For those observational papers we determine which facility, or more often, which facilities the authors used to gather
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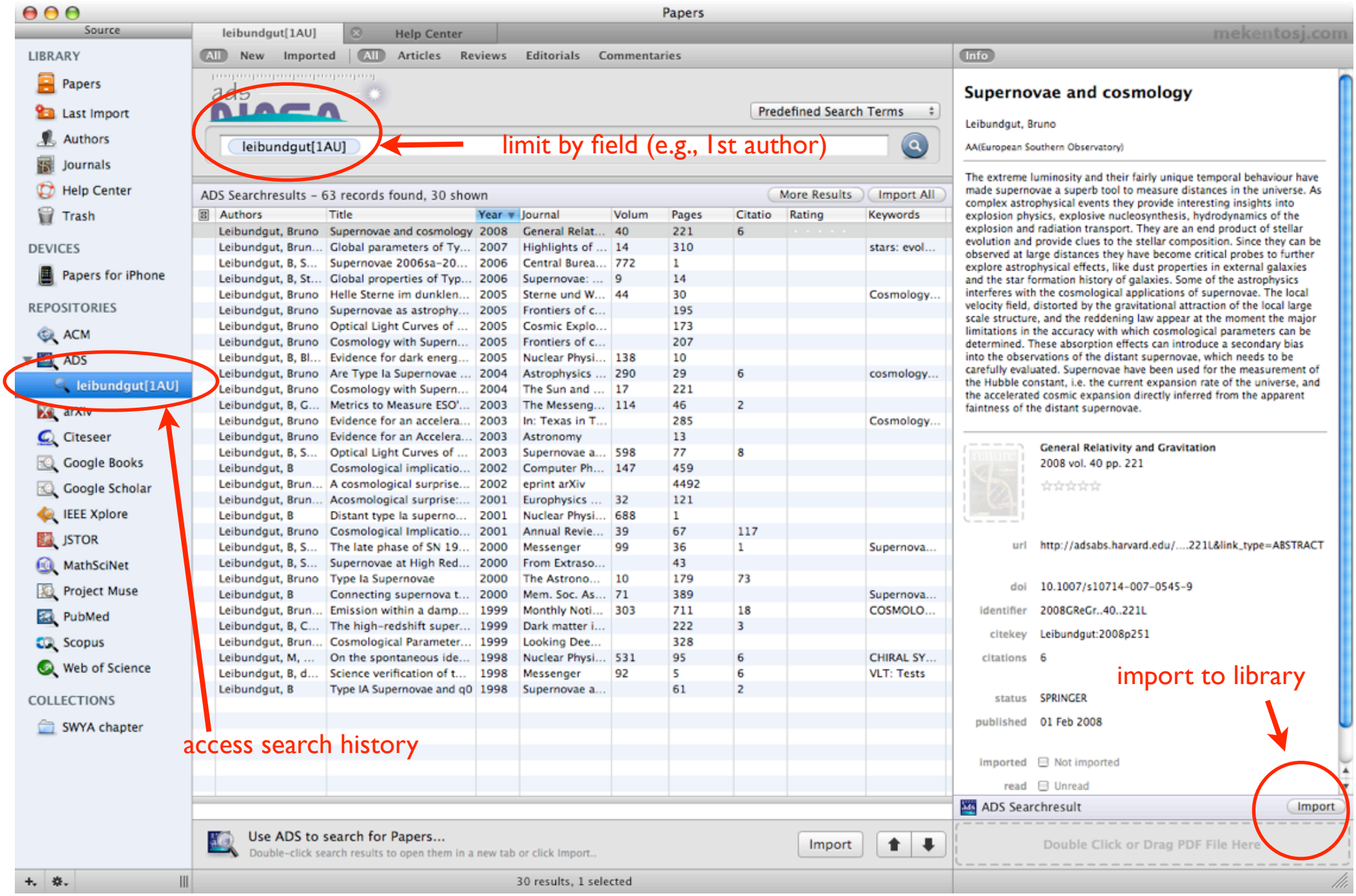
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Leibundgut, B, Bl... Evidence for dark energ... 2005 Nuclear Physi... 138 10
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Leibundgut, Brun... A cosmological surprise... 2002 eprint arXiv 4492
Leibundgut, Brun... Acosmological surprise:... 2001 Europhysics ... 32 121
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Leibundgut, Bruno Type Ia Supernovae 2000 The Astrono... 10 179 73
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Leibundgut, Brun... Emission within a damp... 1999 Monthly Noti... 303 711 18 COSMOLO...
Leibundgut, B, C... The high-redshift super... 1999 Dark matter i... 222 3
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Leibundgut, M, ... On the spontaneous ide... 1998 Nuclear Physi... 531 95 6 CHIRAL SY...
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Supernovae and cosmology
Leibundgut, Bruno
AA(European Southern Observatory)
The extreme luminosity and their fairly unique temporal behaviour have made supernovae a superb tool to measure distances in the universe. As complex astrophysical events they provide interesting insights into explosion physics, explosive nucleosynthesis, hydrodynamics of the explosion and radiation transport. They are an end product of stellar evolution and provide clues to the stellar composition. Since they can be observed at large distances they have become critical probes to further explore astrophysical effects, like dust properties in external galaxies and the star formation history of galaxies. Some of the astrophysics interferes with the cosmological applications of supernovae. The local velocity field, distorted by the gravitational attraction of the local large scale structure, and the reddening law appear at the moment the major limitations in the accuracy with which cosmological parameters can be determined. These absorption effects can introduce a secondary bias into the observations of the distant supernovae, which needs to be carefully evaluated. Supernovae have been used for the measurement of the Hubble constant, i.e. the current expansion rate of the universe, and the accelerated cosmic expansion directly inferred from the apparent faintness of the distant supernovae.
General Relativity and Gravitation
2008 vol. 40 pp. 221
url http://adsabs.harvard.edu/....221L&link_type=ABSTRACT
doi 10.1007/s10714-007-0545-9
identifier 2008GReGr..40..221L
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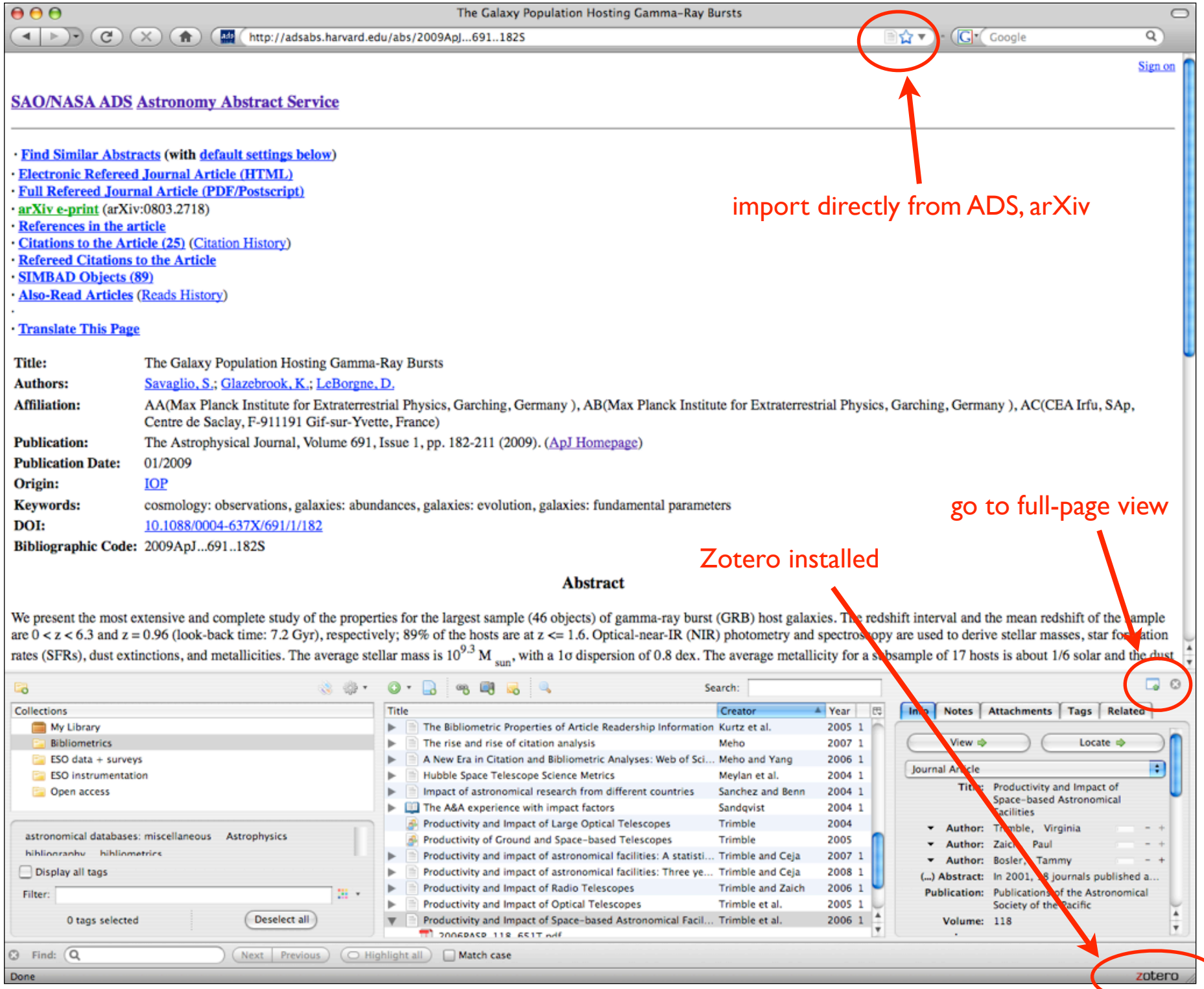
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Authors: Savaglio, S.; Glazebrook, K.; LeBorgne, D.
Affiliation: AA(Max Planck Institute for Extraterrestrial Physics, Garching, Germany), AB(Max Planck Institute for Extraterrestrial Physics, Garching, Germany), AC(CEA Irfu, SAp, Centre de Saclay, F-911191 Gif-sur-Yvette, France)
Publication: The Astrophysical Journal, Volume 691, Issue 1, pp. 182-211 (2009). (ApJ Homepage)
Publication Date: 01/2009
Origin: IOP
Keywords: cosmology: observations, galaxies: abundances, galaxies: evolution, galaxies: fundamental parameters
DOI: 10.1088/0004-637X/691/1/182
Bibliographic Code: 2009ApJ...691..182S
Abstract
We present the most extensive and complete study of the properties for the largest sample (46 objects) of gamma-ray burst (GRB) host galaxies. The redshift interval and the mean redshift of the sample are 0 < z < 6.3 and z = 0.96 (look-back time: 7.2 Gyr), respectively; 89% of the hosts are at z <= 1.6. Optical-near-IR (NIR) photometry and spectroscopy are used to derive stellar masses, star formation rates (SFRs), dust extinctions, and metallicities. The average stellar mass is $10^{9.3}$ M_{sun}, with a 1σ dispersion of 0.8 dex. The average metallicity for a subsample of 17 hosts is about 1/6 solar and the dust
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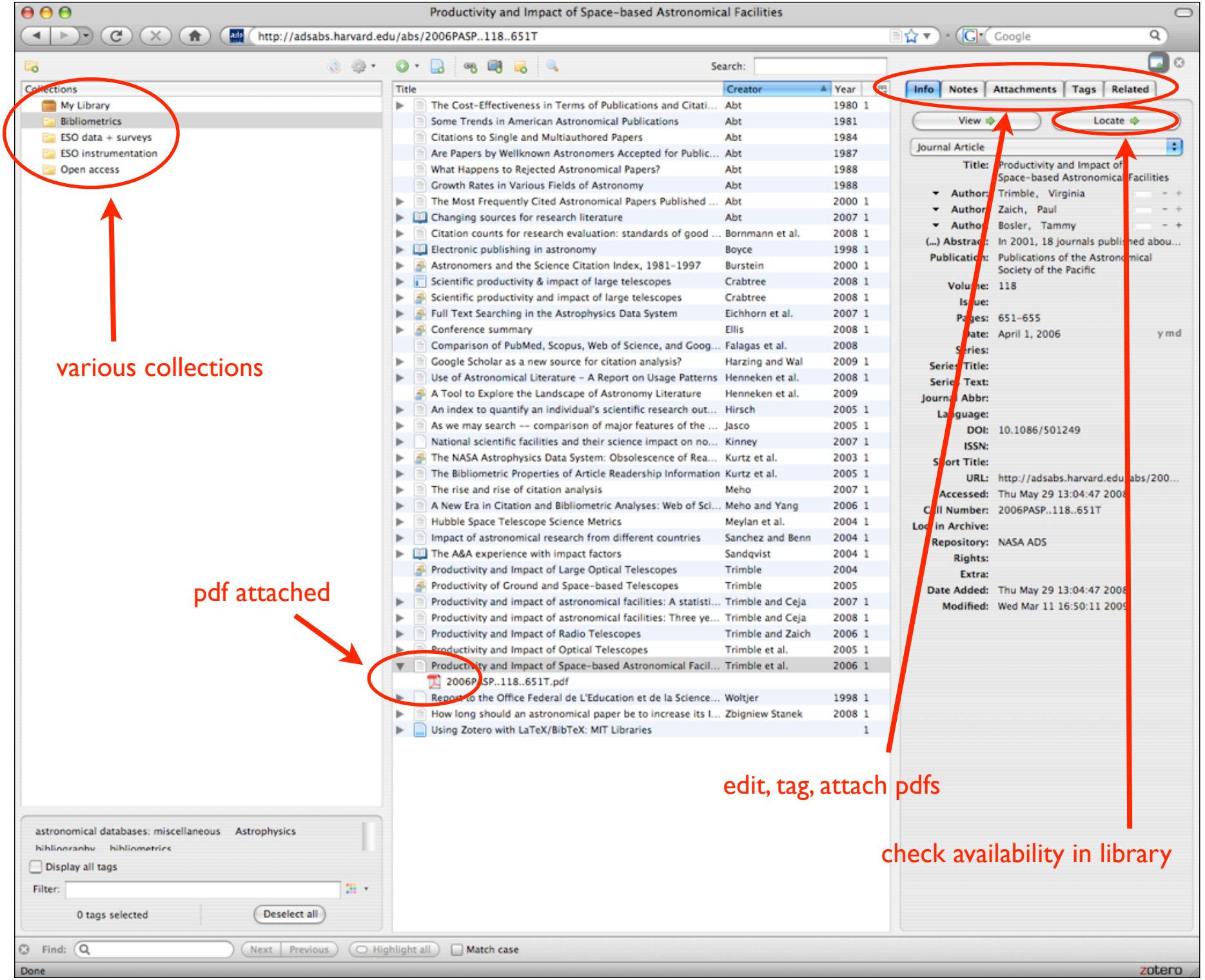
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Date: April 1, 2006
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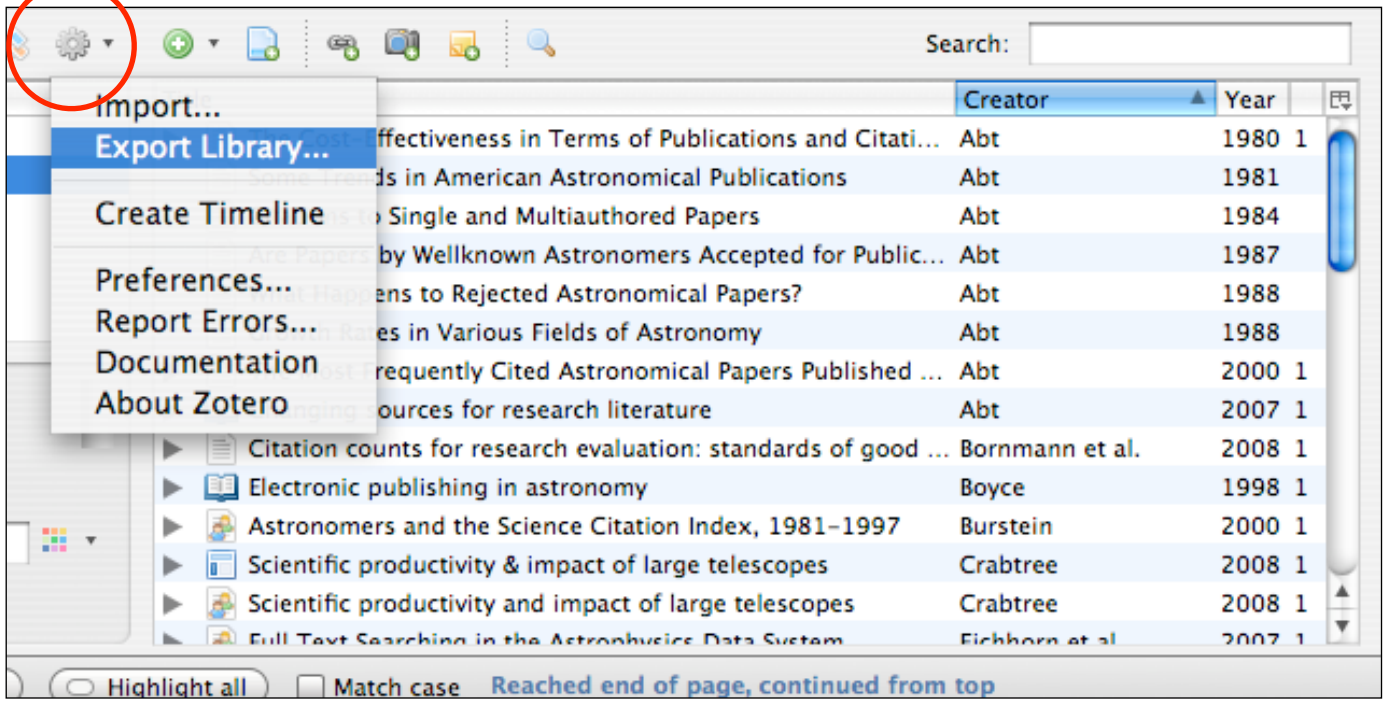

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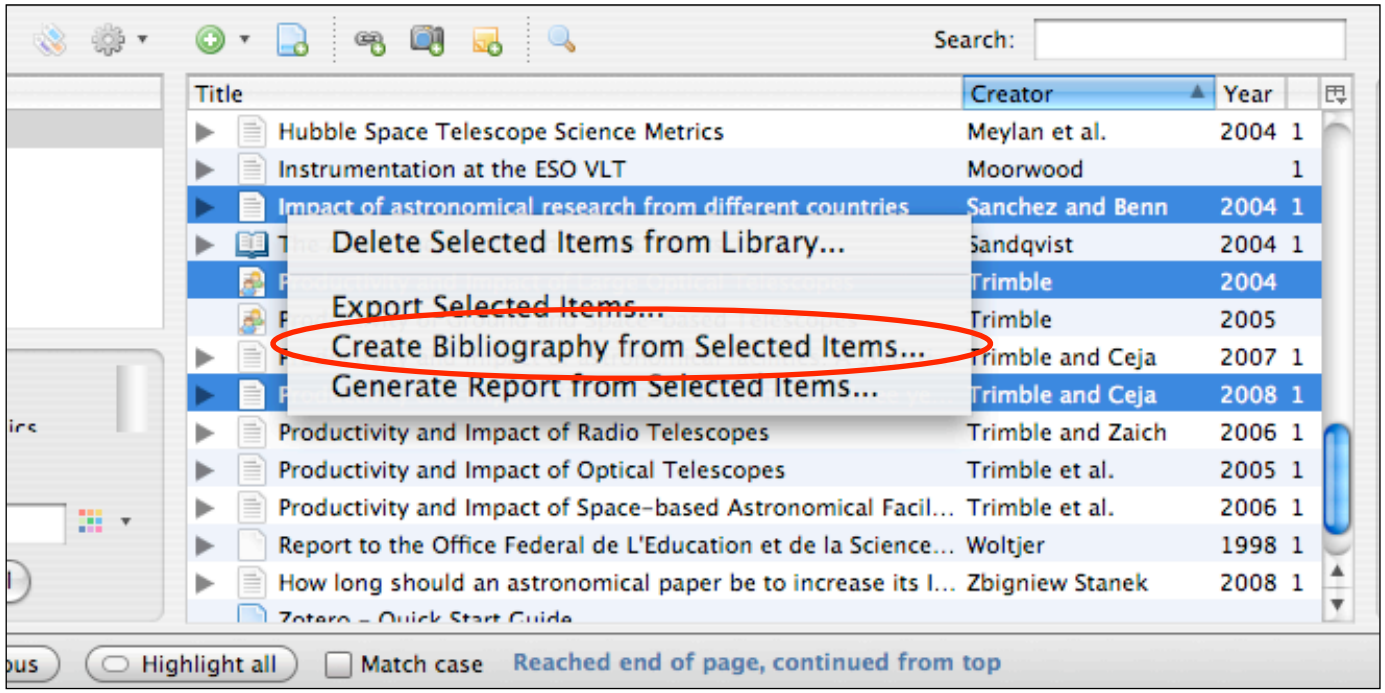

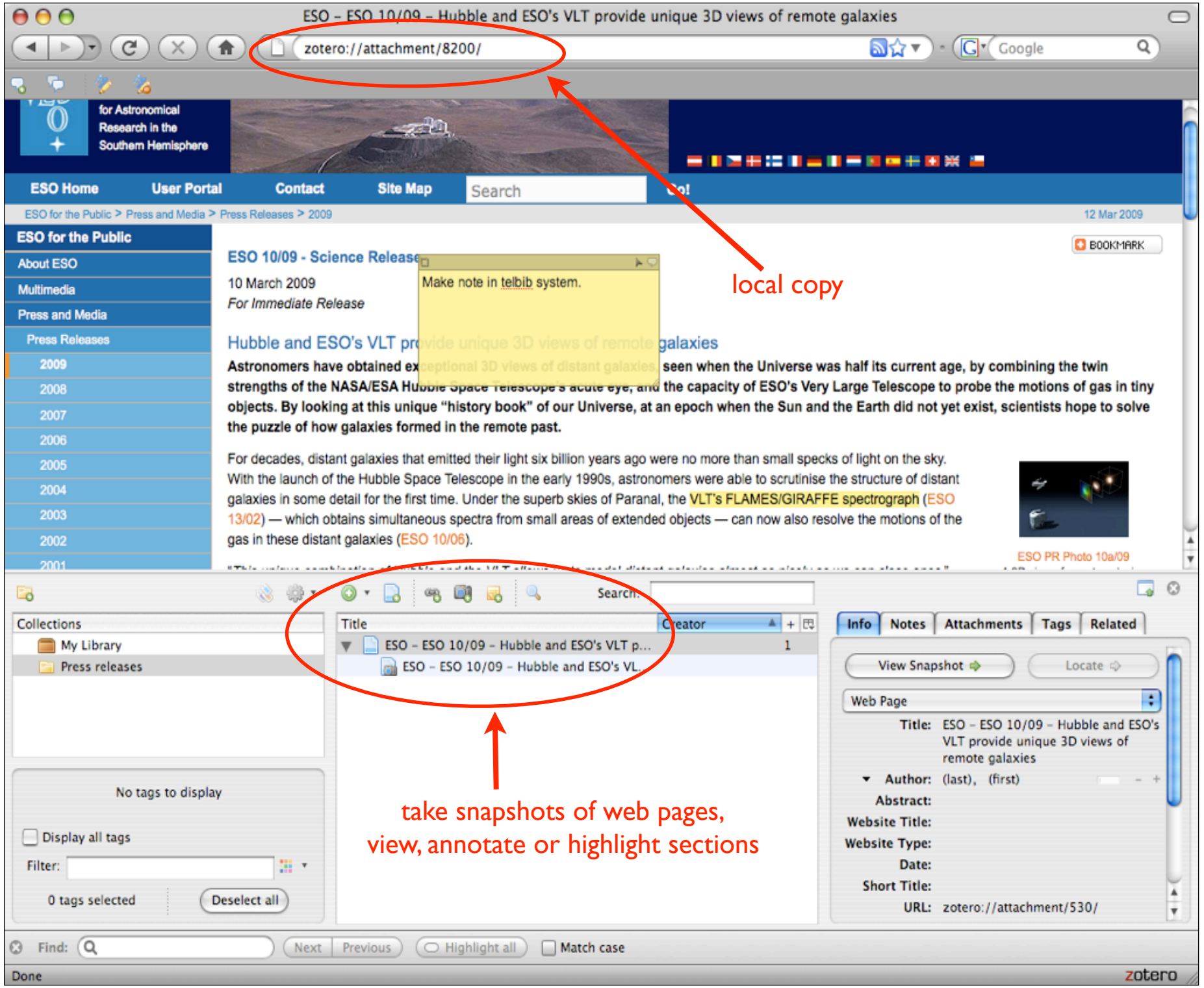
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For decades, distant galaxies that emitted their light six billion years ago were no more than small specks of light on the sky. With the launch of the Hubble Space Telescope in the early 1990s, astronomers were able to scrutinise the structure of distant galaxies in some detail for the first time. Under the superb skies of Paranal, the VLT's FLAMES/GIRAFFE spectrograph (ESO 13/02) — which obtains simultaneous spectra from small areas of extended objects — can now also resolve the motions of the gas in these distant galaxies (ESO 10/06).
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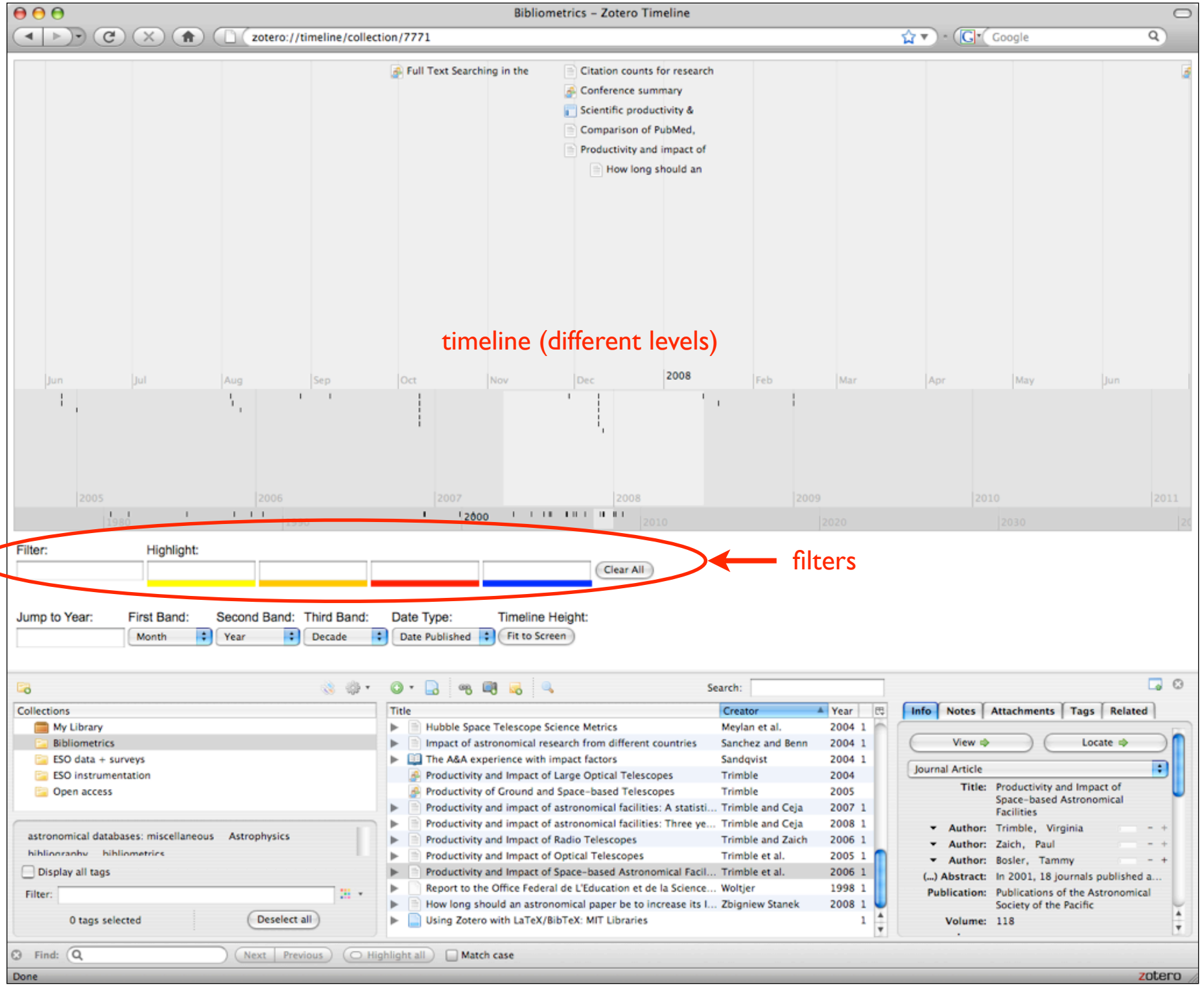
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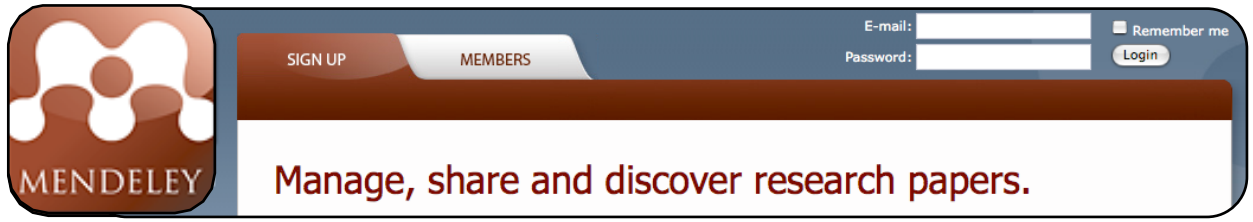

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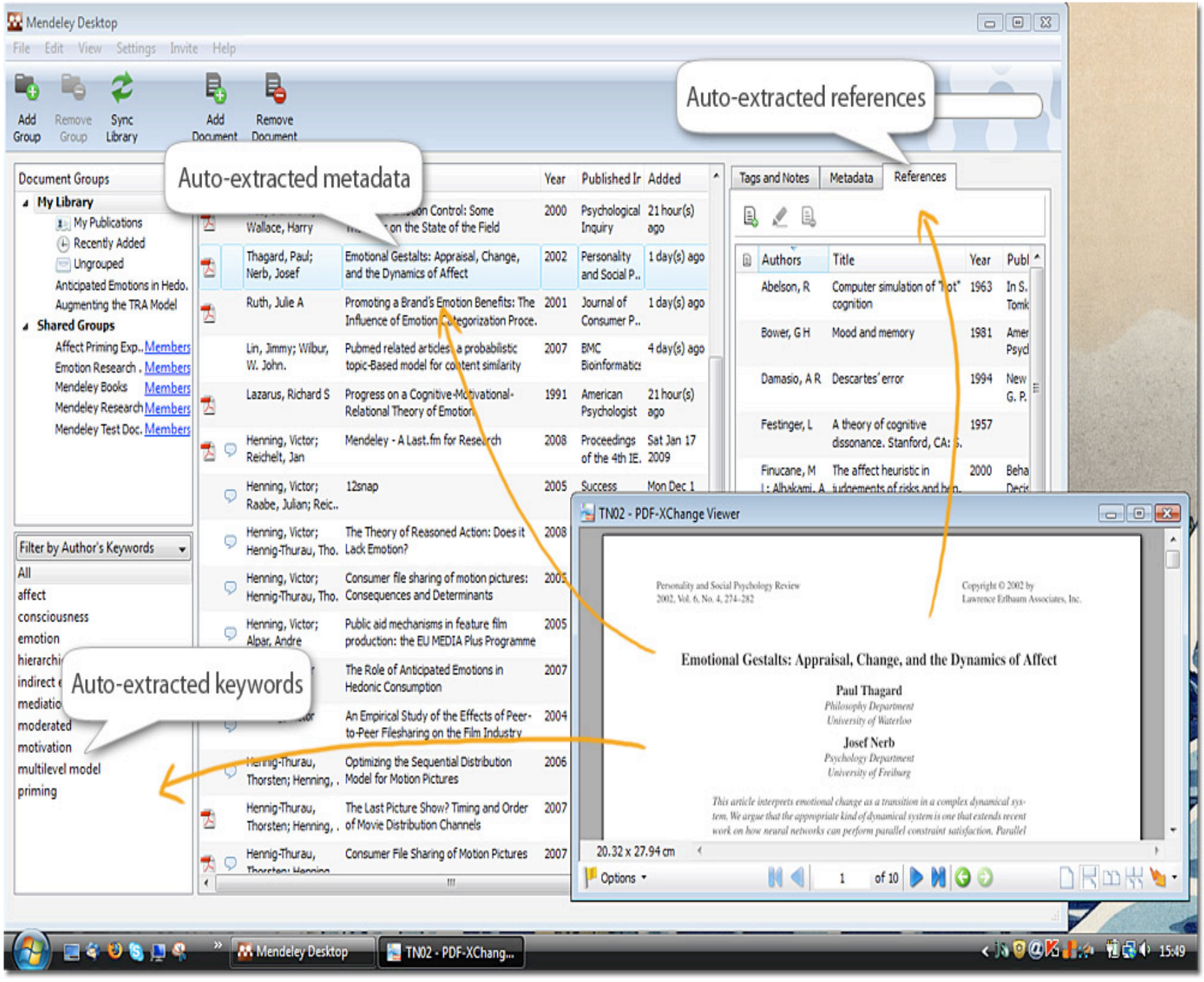
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University of Waterloo
Josef Nerb
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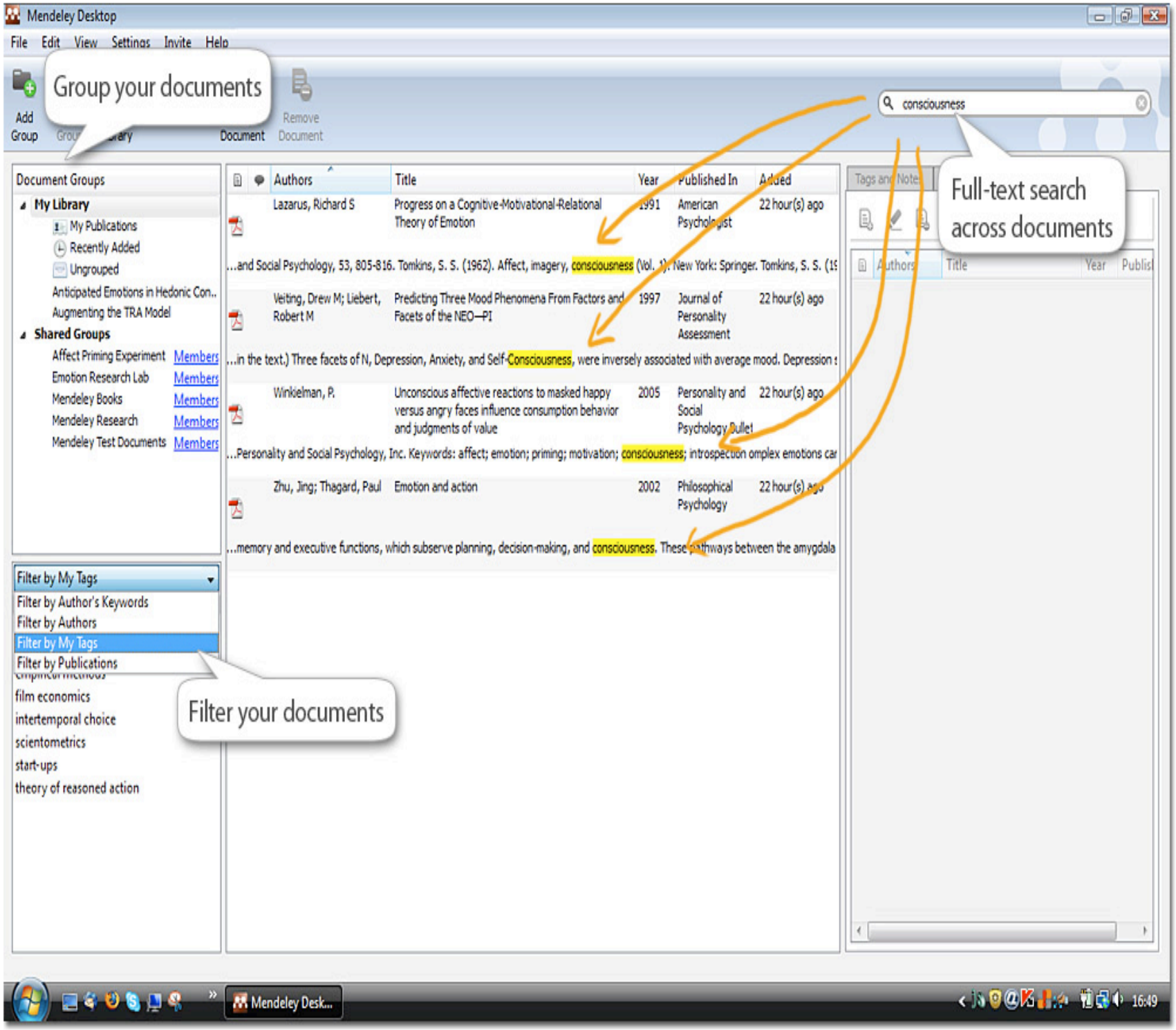
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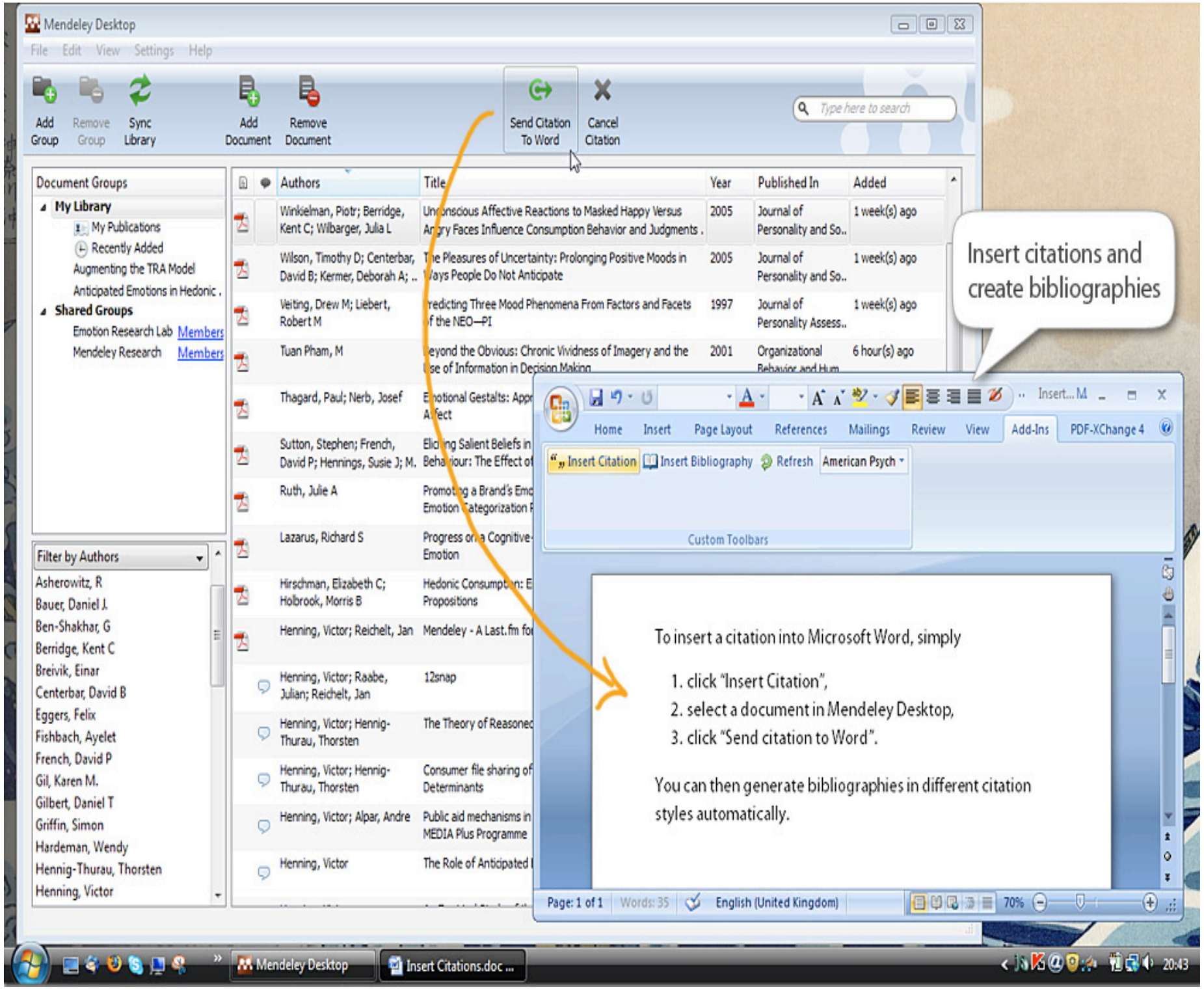
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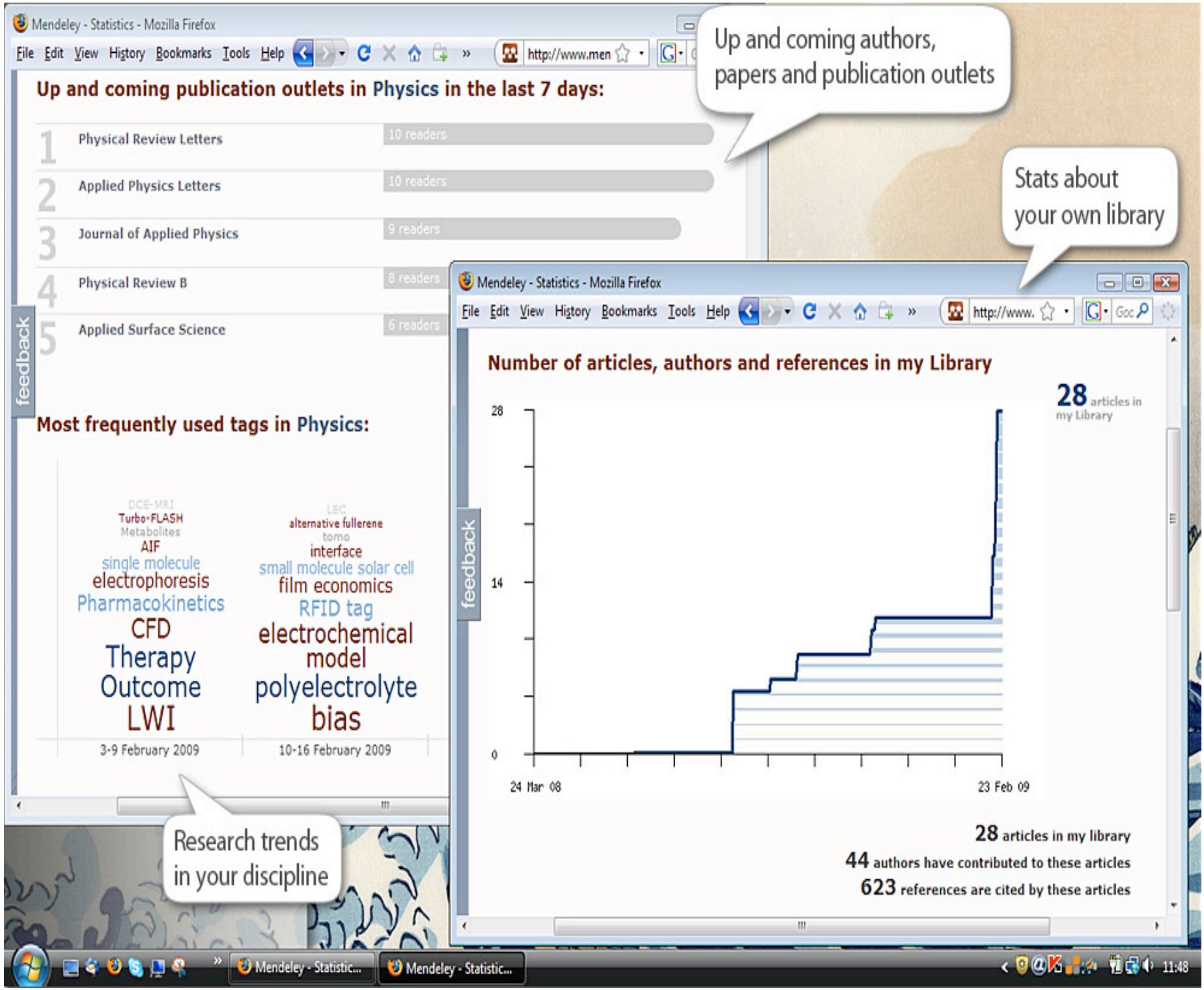
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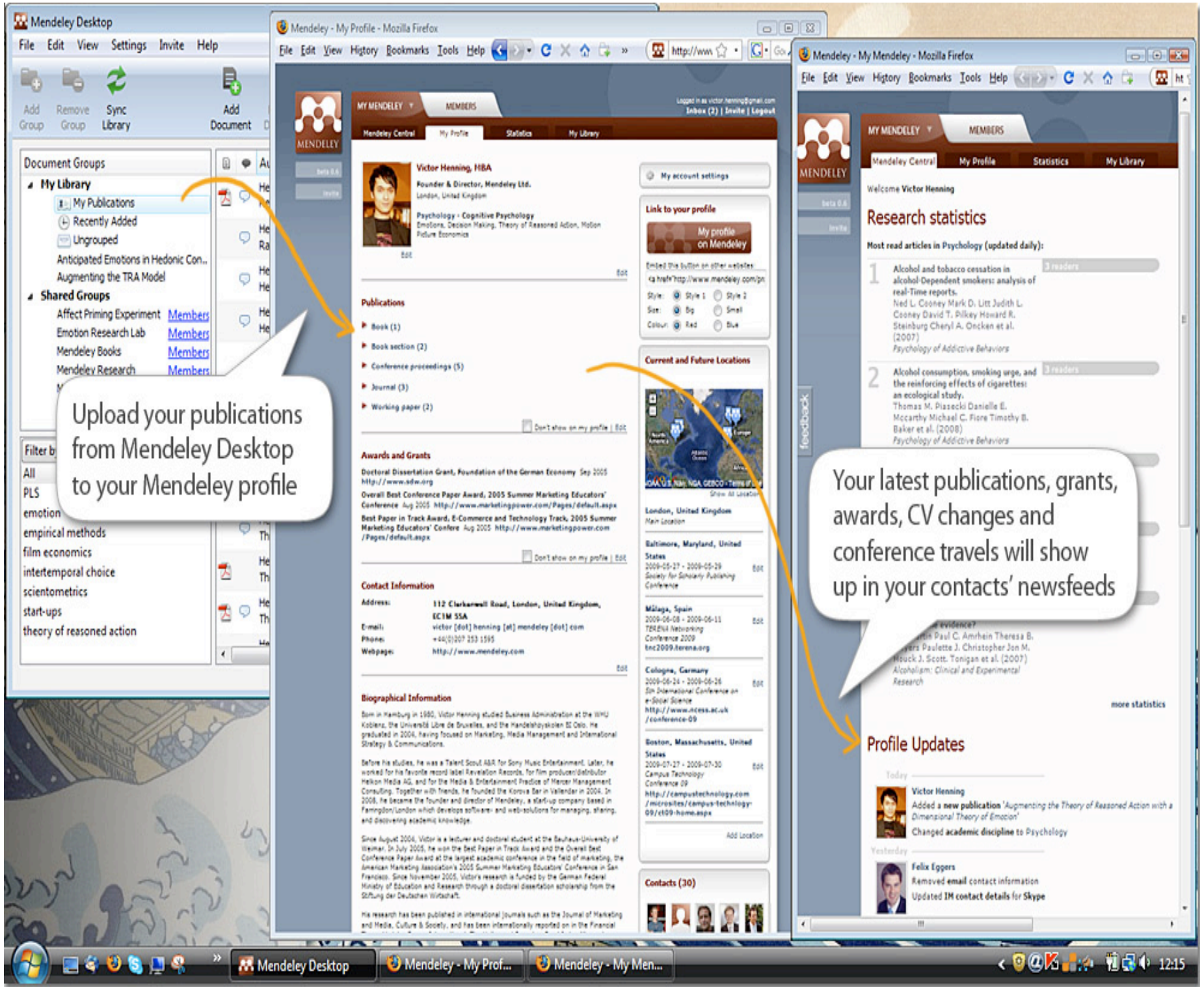
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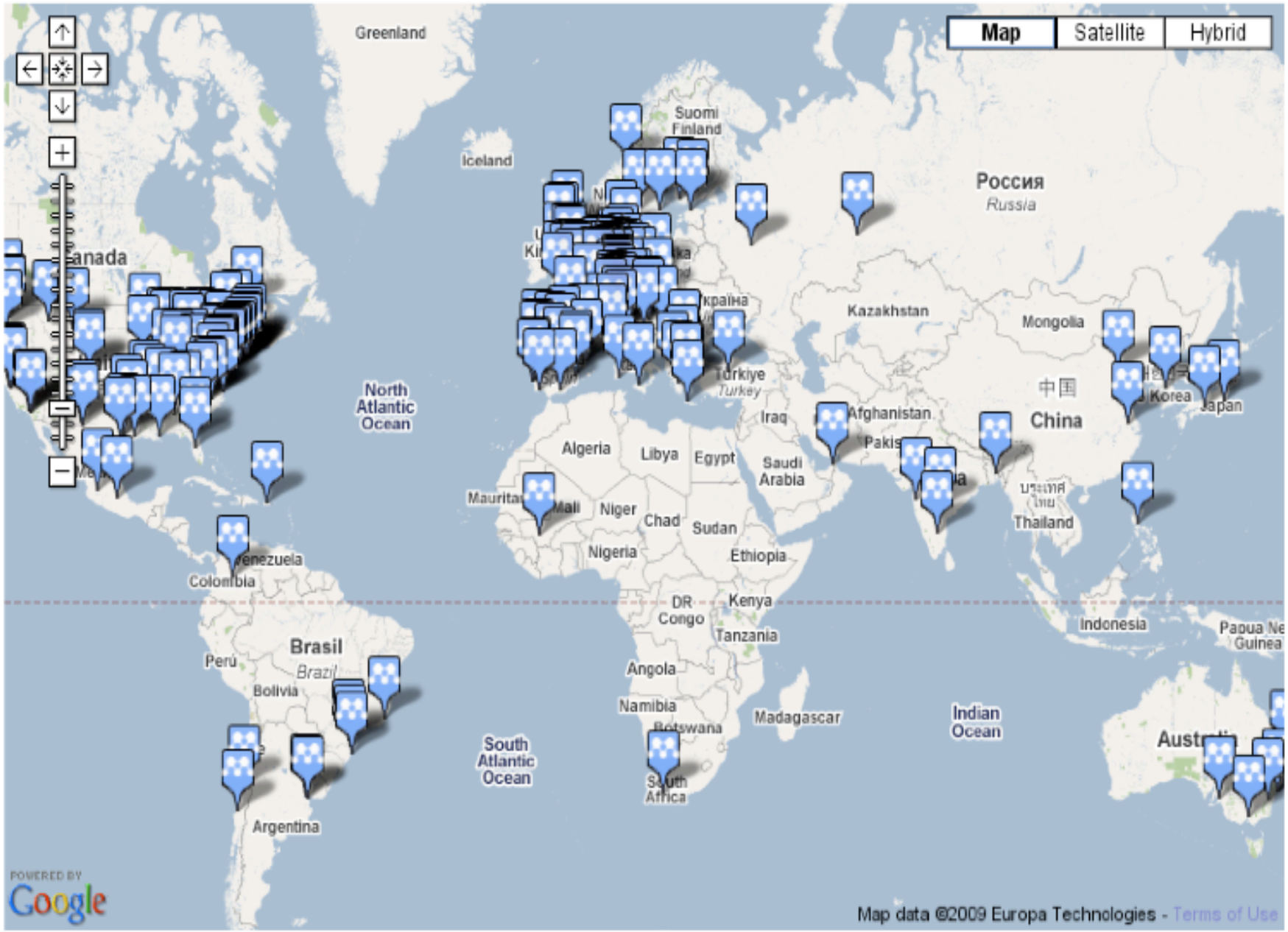

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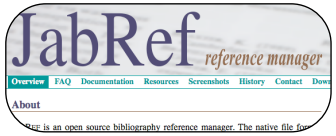

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