

Surfing for relevant results

ARC Lunch Seminar, February 5 and March 19, 2013

> Roger Bishop ECE School, KTH Library



Our Aim: To improve your Information Literacy

- 1. Identify your information needs
- 2. Run the search using KTH resources
 - 3. Critically evaluate the results
- 4. Use the results in a professional way

Why search for information?

Strengthening an argument.

The increasing frequency of massive hurricanes and storms is due to the emission of greenhouse gases.

What do I need to strengthen?

Why search for information?

Strengthening an argument.

The increasing frequency of massive hurricanes and storms is due to the emission of greenhouse gases.

What do I need to strengthen?

Why search for information?

Strengthening an argument.

The increasing frequency [*] of massive hurricanes and storms is due to the emission of greenhouse gases [*].

* add a reference to a report, or use your own empirical data!



Google simple word search: 793,000 articles

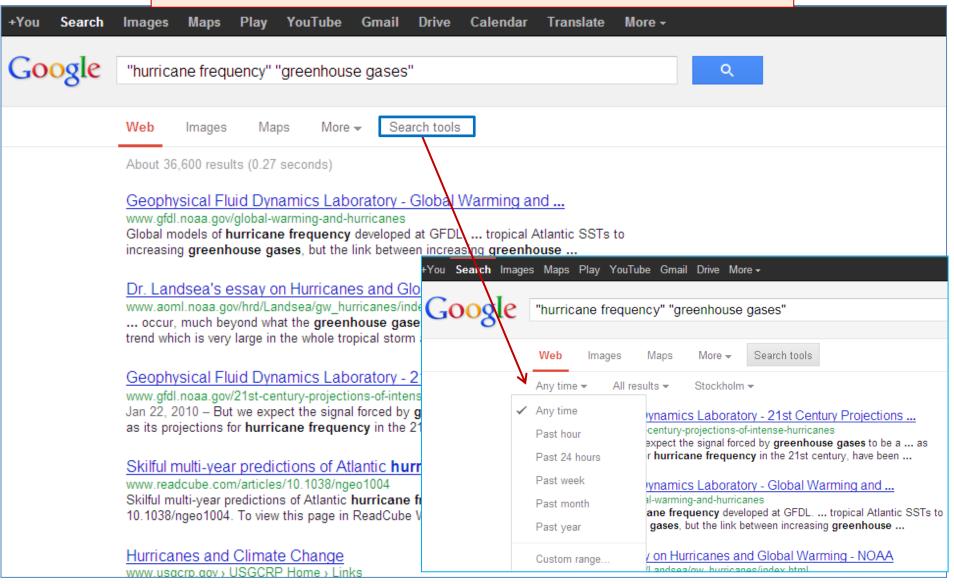
Mixtures of sources, enormous number of articles

+You Search	Images Maps Play YouTube Gmail Drive Calendar Translate More -
Google	hurricane frequency greenhouse gases
	Web Images Maps More ▼ Search tools
	About 793,000 results (0.34 seconds)
	21st Century Projections of Intense Hurricanes - Geophysical Fluid www.gfdl.noaa.gov/21st-century-projections-of-intense-hurricanes Dec 13, 2012 – This paper asks how the frequency of the most intense Atlantic hurricanes will But we expect the signal forced by greenhouse gases to be a
	Global Warming and Hurricanes - Geophysical Fluid Dynamics www.gfdl.noaa.gov/global-warming-and-hurricanes Has Global Warming Affected Atlantic Hurricane Activity? but the link between increasing greenhouse gases and hurricane PDI or frequency has been based
	IPDFI HURRICANES AND GLOBAL WARMING - National Hurricane C www.nhc.noaa.gov/pdf/05pielke.pdf File Format: PDF/Adobe Acrobat - Quick View by RA PIELKE JR - 2005 - Cited by 201 - Related articles unprecedented trends, any effect of greenhouse gases on the frequency of storms or major hurricanes is nec- essarily very difficult to detect in the context of this
	Dr. Landsea's essay on Hurricanes and Global Warming - NOAA www.aoml.noaa.gov/hrd/Landsea/gw_hurricanes/index.html As an example, Hurricane Katrina was responsible for the death of ~1200 and through greenhouse gas emissions such as carbon dioxide and methane the trend which is very large in the whole tropical storm and hurricane frequency



Google phrase search: 36,600 articles

Search improved using phrases; a few filters are available





Google Scholar phrase search: 445 articles

Academic sources, often peer-reviewed; more filters, citations and pdf are available

Google	"hurricane frequency" "greenhouse gases"		
Scholar	About 445 results (0.03 sec)		
Articles	Simulated reduction in Atlantic hurricane frequency under twenty-first-century warming conditions TR Knutson, JJ Sirutis, ST Garner, GA Vecchi Nature, 2008 - nature.com	[PDF] from 140.208.31.101	
Legal documents	4) are inconsistent with the notion of large, upward trends in tropical storm and hurricane frequency over the twentieth century, driven by greenhouse warming 3, 5. The twentieth-century warming attributed to greenhouse gases by global models is sufficiently similar in spatial		
Any time	Cited by 171 Related articles BL Direct All 34 versions Import into EndNote More ▼		
Since 2013 Since 2012 Since 2009	Modeled impact of anthropogenic warming on the frequency of intense Atlantic hurricanes MA Bender, TR Knutson, RE Tuleya, JJ Sirutis Science, 2010 - sciencemag.org	[PDF] from hawaii.edu	
Custom range	CMIP3 model, in particular, would be increased if we took into account that the largest increase of intense hurricane frequency is projected The A1B scenario for the 21st century includes		
Sort by relevance Sort by date	significant reductions in aerosols as well as increases in greenhouse gases ; we have not Cited by 202 Related articles All 20 versions Import into EndNote More▼		
include patents include citations	 [PDF] Hurricanes and global warming RA Pielke, C Landsea, M Mayfield, J Laver Bulletin of the American, 2005 - ruby.fgcu.edu Consequently, in the absence of large or unprecedented trends, any effect of greenhouse gases on the frequency of storms or major Research on possible future changes in hurricane frequency due to global warming is ambiguous, with most studies suggesting that future 	[PDF] from fgcu.edu	
	Cited by 201 Related articles BL Direct All 41 versions Import into EndNote More ▼		
	Large contribution of sea surface warming to recent increase in Atlantic hurricane activity MA Saunders, AS Lea - Nature, 2008 - nature.com is such that a 0.5 °C increase in sea surface temperature is associated with a 40% increase in hurricane frequency and activity Our analysis does not identify whether warming induced by greenhouse gases contributed to the increase in hurricane activity, but the ability of climate Cited by 99 Related articles BL Direct All 23 versions Import into EndNote More ▼	[PDF] from liberation.fr	
	Tropical cyclones and climate change	IPDEI from mit edu	
	TR Knutson, <u>JL McBride</u> , J Chan, K Emanuel Nature, 2010 - nature.com the variability expected through natural causes, and to attribute significant changes to specific climate forcings, such as greenhouse gases or aerosols This record is not subject to the same	lar.google.com	
	data errors that have made direct assessment of strong-hurricane frequency from the		



The KTH electronic library

Search Tools > Primo, databases, journals and library catalogue

KTHB på svenska



KTH Library

KTHB SEARCH TOOLS SERVICES PUBLISHING ABOUT KTHB



Almost all information sources available to KTHB

Mathematics Library
is now part of the Main Library

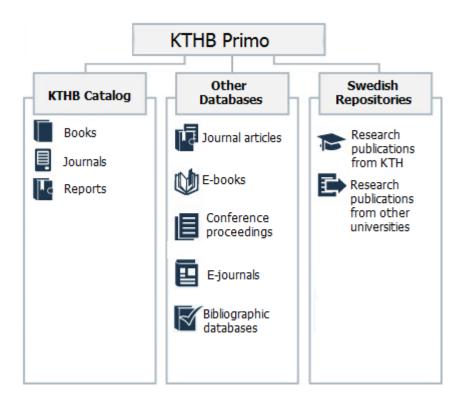
Spotlight

KTH Main Library open on Saturdays 18 Jan 2013

New journal package from Cell Press

17 Jan 2013

What types of results do you get from Primo?

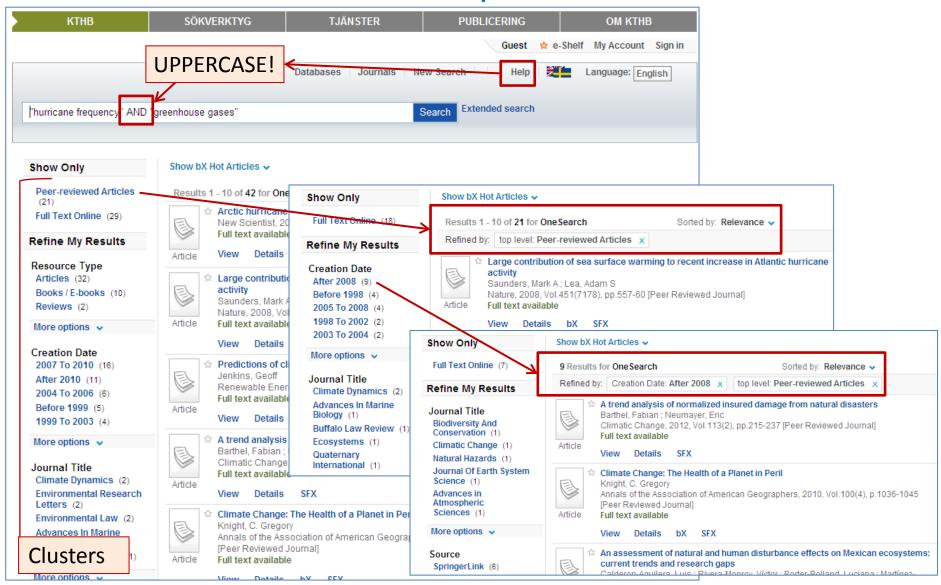


Huge search!
But you can easily filter the results



Where to look?

Primo offers several ways to filter the results





Many more results when you utilise all the search possibilities

Truncation, synonyms, phrases and Boolean operators

Extended search (frequen* OR activity) AND (hurrican* OR storm*) AND "greenhouse gas*" Search **Show Only** Show bX Hot Articles • Peer-reviewed Articles Results 1 - 10 of 6,226 for One Search Sorted by: Relevance . $12345 \Rightarrow$ (4.021)Nutrient removal and greenhouse gas emissions in duckweed treatment ponds Full Text Online (4,315) Sims, Atrevee; Gajaraj, Shashikanth; Hu, Zhiqiang Water Research [Peer Reviewed Journal] Refine My Results Full text available Article Resource Type View Details SFX Articles (4,849) Atmospheric rivers cause the UK's worst floods Books / E-books (729) Ananthaswamy, Anil Reviews (373) New Scientist, 2011, Vol.212(2838), pp.7-7 Full text available Text resources (202) Article Conference View Details SFX Proceedings (159) Global warming raises water content of atmosphere More options . Holmes, Bob New Scientist, 2007, Vol.195(2622), pp.16-16 Creation Date After 2006 (4,148) SFX Details bX Article 2001 To 2006 (1,201) A multi-criteria evaluation of policy instruments for climate change mitigation in the 1996 To 2000 (416) power generation sector of Trinidad and Tobago 1991 To 1995 (305) Heinrich Blechinger, Philipp Friedrich; Shah, Kalim U. Before 1991 (64) Energy Policy, 2011, Vol.39(10), pp.6331-6343 [Peer Reviewed Journal] Article Full text available More options > SFX View Details bX Journal Title The study of urban metabolism and its applications to urban planning and design Climate Dynamics (176) Kennedy, C.; Pincetl, S.; Bunje, P. Climatic Change (94) Environmental Pollution, 2011, Vol.159(8), pp.1965-1973 [Peer Reviewed Journal]



Databases are important sources of information! Use them all!

Reference databases:

- Bibliographic databases: journal articles, books, reports etc., e.g. *EconLit*, *Web of Science*, *Scopus*
- Catalogue databases: e.g. "Yellow Pages", Eniro

Factual databases:

- Statistics Sweden (Statistiska centralbyrån)
- Properties of substances, materials, e.g. CRC Handbook, Referex

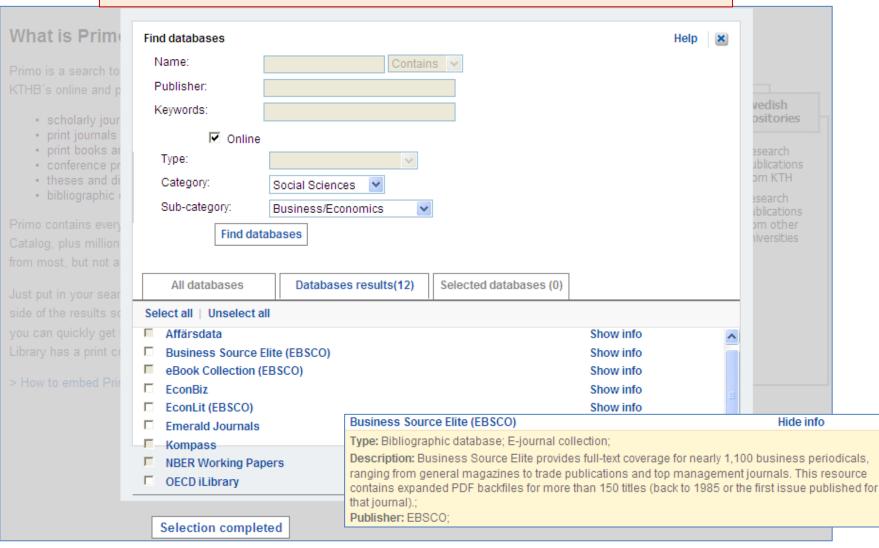
Full text databases:

- Bibliographic databases: journal articles, books, reports etc., e.g. Business Source Elite, ScienceDirect
- News agencies
- Newspaper articles, e.g. Affärsdata
- Dictionaries/encyclopaedias



Find databases in business and economics

KTHB > Search Tools > Databases > Category > Sub-category





Business Source Elite

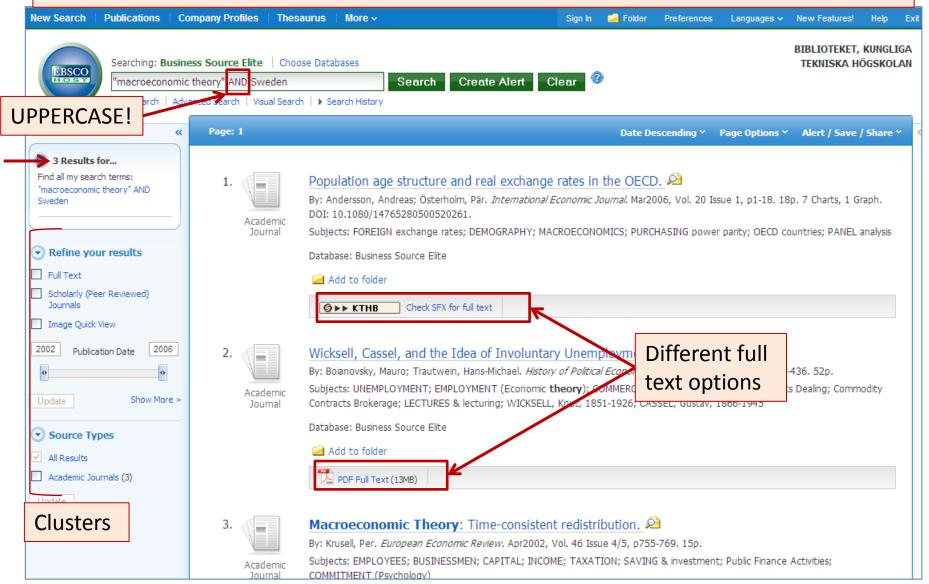
- Full text (mostly) database
- ~1,000 business publications and economics journals, including ~500 peer-reviewed publications; records from 1985 with a few dating back to 1965
- Also includes >10,100 company profiles from Datamonitor
- Updated daily with articles from:

Business Week	Forbes	Harvard Business Review
MIT Sloan Management Review	California Management Review	Administrative Science Quarterly
Academy of Management Journal	Academy of Management Review	Industrial & Labor Relations Review
Journal of Management Studies	Journal of Marketing Management	Journal of Marketing Research
Journal of Marketing	Journal of International Marketing	and many more journals.



Basic search in Business Source Elite

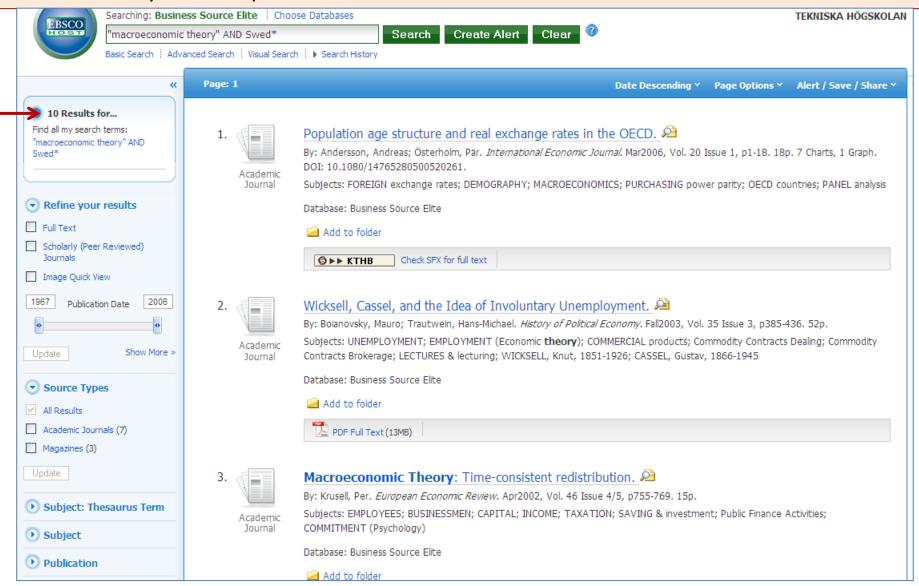
Combine search terms with logical (Boolean) operators AND or OR; phrases within " "





More results with truncation

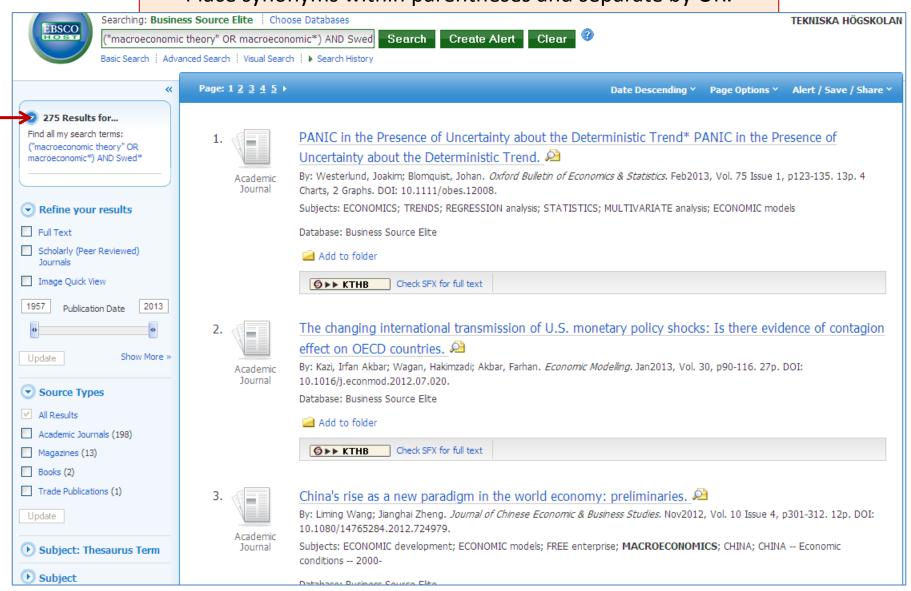
A truncation symbol * replaces extensions of the word root: Swed* finds Sweden or Swedish.





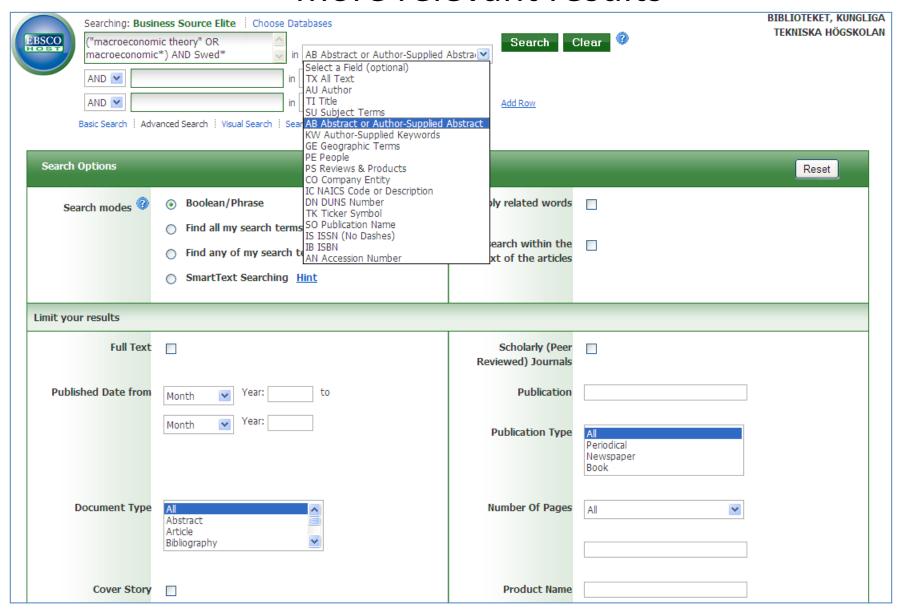
...and even more with synonyms

Place synonyms within parentheses and separate by OR.



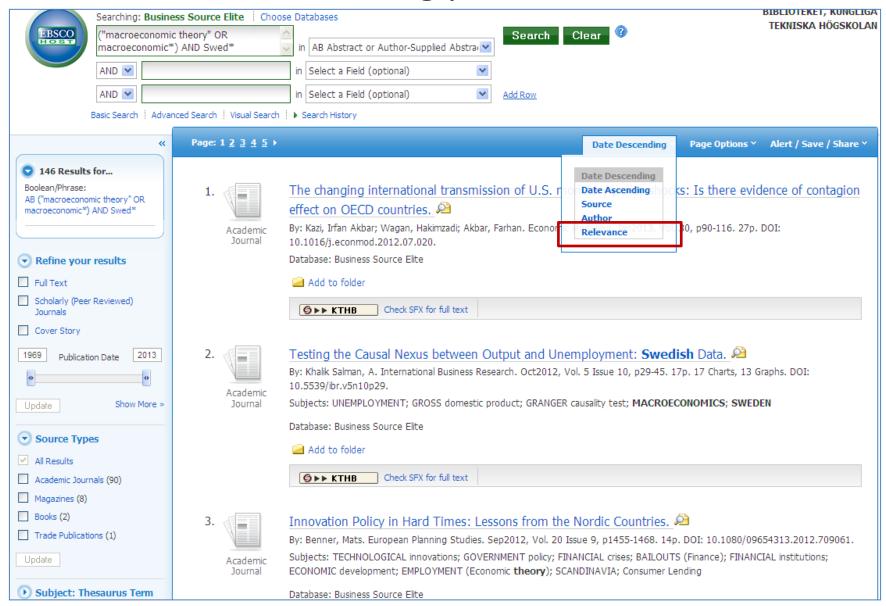


Advanced search: search in selected fields for more relevant results





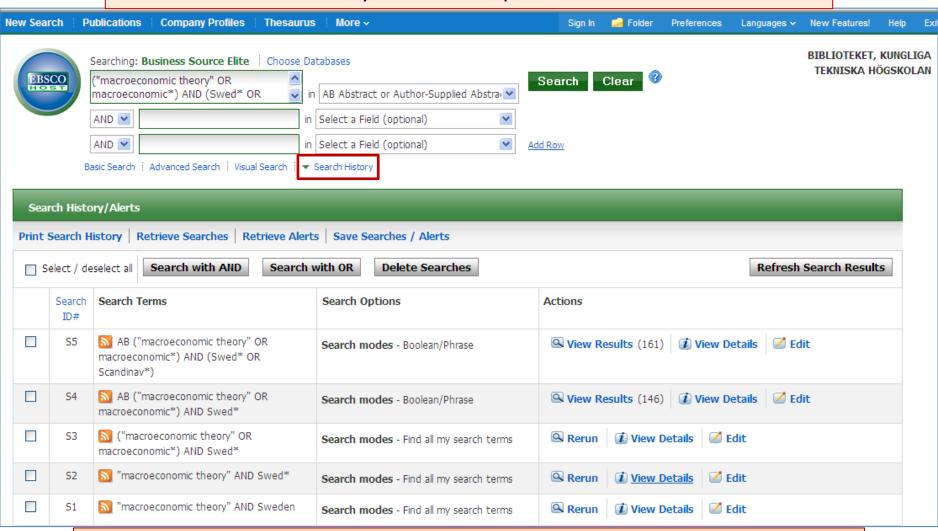
Refine results: e.g. source (document) type, sorting parameter





Search History: How did I get here?

Recommended in case you need to repeat the search at a later date.



But you must **register** to retain your search history after the search session.



Multidisciplinary databases

Both of these have extensive citation and analysis tools.

Web of Science (Thomson Reuter)

The "world's leading scholarly literature in the sciences, social sciences, arts, and humanities; proceedings of international conferences, symposia, seminars, colloquia, workshops, and conventions".

- Science Citation Index Expanded (1975-present)
- Social Sciences Citation Index (1975-present)
- Arts & Humanities Citation Index (1975-present)
- Conference Proceedings Citation Index- Science (2002-present)
- Conference Proceedings Citation Index- Social Science & Humanities (2002present)

Scopus (Elsevier)

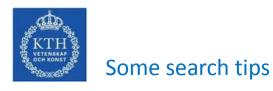
The "largest abstract and citation database of peer-reviewed literature with smart tools to track, analyze and visualize research".

- Economics, Medicine and Health, Natural Sciences, Social Sciences and Technology
- 26 million records with references back to 1996 (of which 78% include references)
- 21 million pre-1996 records dating back as far as 1823



Find e-journals in Business and Economics





Most databases use American English spelling, especially for the Thesaurus

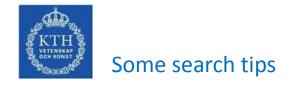
American English	British English
Aluminum	Aluminium
Fiber	Fibre
Leukemia	Leukaemia
Sulfur, Sulfide	Sulphur, Sulphide
Tumor	Tumour
Organization	Organisation



...and sometimes use different words for the same thing

American	British	Svenska
Sidewalk	Pavement	Trottoar, gångbana
Pavement	Road	Vägbana
Automobile	(Motor) Car	Bil
Windshield	Windscreen	Vindruta
Elevator	Lift	Hiss
Railroad	Railway	Järnväg

Note, that if you search in the abstract or title field you may find the author has used British English. If in doubt, search on both words!

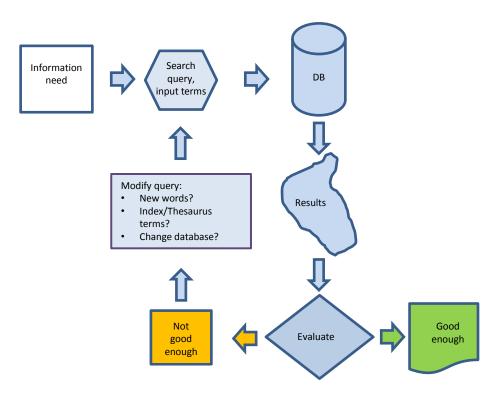


But how do you find the terms in English?

Ask	Your professor, a fellow student at KTH or your supervisor at the company (degree project)	
Rikstermbanken	Search for the Swedish term	"Visa hela termposten" for other languages
Nationalencyclopedin (NE) Språklexikon: Swedish to English, French, German or Spanish	In Primo, search for "språklexikon"; click on title	Select languages to translate from and to
Wikipedia	Search with the term in Swedish	Click on "English" in the left-hand column
Company web site	Search for the Swedish term	Switch to the English language page



To re-capitulate!



Optimise the search query

- Add synonyms
- Truncate to find plurals and other word extensions
- Use Boolean (logic) operators
- Search in specific fields
- Use proximity operators, where available
- Use the thesaurus, where available

Use relevant database(s)

- Subject-specific or broad databases?
- Reference or full-text databases?
- Field or only full-text searching available?
- Coverage from 1960 or 1840?
- Patent documents or conference reports included?
- Citation searching available?



More on Information Retrieval at KTHB

Courses in Information Retrieval

1.5 hp to 7.5 hp, for students and post-graduates



Additional materials

Search Help for Bibliographic Databases
How To save your Search Histories



Private study course

"Information Retrieval and Management"



Search Support/Sökverkstad

Book 45 minutes private help or advice from a search specialist

