Spring 2025

Topic Search

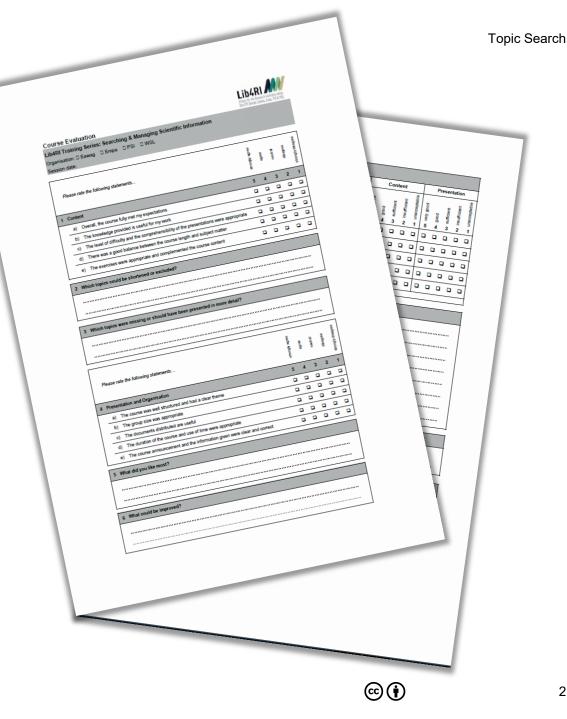
o Steps before searchingo Al research assistants (scite.ai and others)o Boolean Search: Scopus, Web of Science, swisscovery, ...o Refine & evaluate your results

Stephanie Hofmann & Bobby Neuhold

Thanks for your feedback

Help us improve our training by returning the feedback form enclosed in your documentation!

The course slides and supplementary material are available online on our website at www.lib4ri.ch > Learn > Trainings > Searching & Managing Scientific Information > Course description > Module 1





«Some search in order to find; and some find in order to end the effort of searching.» (Elazar Benyouëtz)

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	Glacier retreat in Switzerland is a cern, with glaciers having lost a their volume since 2000. This lo ing, with the Swiss glaciers poter completely by 2100. The primary change, particularly rising tempe	bout 40% of oss is accelerat- ntially vanishing of driver is climate	Why melting glaciers affect us all - SWI 12 Mar 2025 — A study published in 2022 conclude



MV Lib4RI

Retreat of Glaciers in Switzerland

Topic search Thematic search



Rhône Glacier, Valais, 1850 and 2000 Foto: Versuchsanstalt für Wasserbau, Hydrologie und Glaziologie (VAW) at ETH Zurich



Before searching – analyse your topic

- $\circ~$ How extensive should your search be?
 - Do you need everything about your topic or simply the documents providing an overview?

Tip: combine your search terms with «overview», «introduction», «survey», «review», ... or use corresponding filters (if available)

 $\circ~$ Which material do you need?

Books, PhD theses, articles,

- \rightarrow different document types often require diverse search tools.
- Which time period should be covered?
 Since when could there be publications on the topic?
 Which period is covered by the search tools?

Before searching – analyse your topic

$\circ~$ Orientation / definition of the terms

- Reference works (encyclopaedias, dictionaries, etc.)
- Manuals
- Wikipedia

Some key papers/books you already have

o Comprehensive searches with current issues

- Articles, conference proceedings, reports
- o Books
- Standards, guidelines and patents (depending on the research topic; advanced level)

• Historical searches

- o Bibliographies
- Card index
- o Archives

Before searching – analyse your topic

Analysis of the central terms of the topic

Define core concepts:

- Include synonyms, beware of homonyms
- Define super- and subordinate terms
- Check related terms
- Translate the search terms (if necessary)

Tip: Start from a few seminal papers and/or relevant reference works and follow an iterative search strategy

Note:

- Spelling BE and AE (covered by Scopus & WoS)
- Previous or other spellings
- o Ambiguous and uncommon abbreviations
- Singular and plural forms (covered by Scopus & WoS)

\rightarrow Bring the concepts/search terms in a meaningful order, using a table.



Topic Search

Truncation, placeholders and wildcards

Electronic search tools generally seek character strings, not meanings.

 \rightarrow Grammatical and spelling variations are often not taken into account

Truncation via placeholders and wildcards facilitate the search, e.g.:

- \$ Represents zero or one character (WoS)
- \rightarrow Topic search: color, finds color and colour
- ? Represents any one character (Scopus, WoS)
- \rightarrow Author search: Ma?er, finds Maier and Mayer
- * Represents zero or more trailing, leading or enclosed characters (Scopus, WoS and many more, but NOT Google)
- \rightarrow econom* finds: economy, economist, economic, economically

Note: Too much truncation might lead to unwanted results. Note: Check, what symbols you can use in which database.

Important: <u>WoS</u> and <u>Scopus</u> include lemmatisation, word stemming and spelling variations. These are automatically turned off when using truncations (often still better)

Phrase search

Search for documents with words in a sequence (phrase)

→ Phrase search: in "quotation marks"

Web of Science search for energy transition: Web of Science search for "energy transition":

48	How to promote <mark>energy transition</mark> in China: From the perspectives of interregional relocation and environmental regulation	6 Citations
I	<u>Huang, LY</u> and <u>Zou, YJ</u> Oct 2020 <u>ENERGY ECONOMICS</u> 92	45 References
	This study investigates the impacts of interregional clean energy relocation and environmental regulation on energy transition with panel data of 30 provinces in China from 1997 to 2015. Instead of applying the production data of clean energy directly as prior studies did, we calculate the actual consumption of Show more	References
I	Get it SLib4RI View full text	Related records
□ 49 ∂	Will small <mark>energy</mark> consumers be faster in <mark>transition</mark> ? Evidence from the early shift from coal to oil in Latin America	36 Citations
	<u>Rubio, MDM</u> and <u>Folchi, M</u> Nov 2012 <u>ENERGY POLICY</u> 50 , pp.50-61	66 References
	This paper provide evidence of the early transition from coal to oil for 20 Latin American countries over the first half of the 20th century, which does not fit the transition experiences of large energy consumers. These small energy consumers had earlier and faster transitions than leading nations. We also provide evider Show more	References
	Get it ③ Lib4R1 Free Accepted Article From Repository Full Text at Publisher	Related records

370,229 hits 7,396 hits

Without the quotes, the space in between energy transition is interpreted as a logical AND neglecting order and location of the search terms

Important: WoS turns off lemmatisation and word stemming for words in quotes; Scopus, however, does NOT (unless truncation is in place)

Tip: Also works with swisscovery, Google and many more

Library for the Research Institutes within the ETH Domain: Eawag, Empa, PSI & WSL



Scite AI - Research Assistant and Citation Database (scite.ai)

- → get quickly acquainted with a general topic or a specific research question using natural language
- → "Glacial retreat in Switzerland"
- → "Does glacial retreat in Switzerland increase heavy metals in the environment?"
- → receive a (detailed) summary with key references incl. supporting / neutral / contrasting citations statements
- → find relevant terminology and key references for a more comprehensive or systematic search, e.g. in Scopus and Web of Science

	Assistant Product V	
	A	A
→ Does glacial	Deca glacial retract in Switzerland increase heavy	References Search Strategy
Switzerland	→ Does glacial retreat in Switzerland increase heavy metals in the environment?	E References Quarter Strategy
increase heavy	metals in the environment?	
metals in the environment?		
_		Searches Used
?	The retreat of glaciers in Switzerland has significant	These are the searches that Assistant ran to find references.
	$_{\bigcirc}$ implications for environmental heavy metal	You can manually edit each search, or add new search
	concentrations. The effects of climate change are	strategies based on your expertise.
	leading to accelerated glacial retreat, which results in	Edit Searches
	the release of stored heavy metals. Glacial melting	
	exposes previously buried sediments that may	glacial retreat switzerland heavy metals
	contain metals accumulated over millennia. As	glaciers switzerland environmental impact heavy metals impact of glacial melt on heavy metals environment
	glaciers retreat, erosion and weathering processes	impact of glacial merc of fleavy metals environment
	can mobilize heavy metals that have been bound or	Publications Consulted
	trapped within the glacial matrix, increasing their	Here are the top 40 publications that Assistant used to draft
	availability in surrounding environments (Thevenon et al. 0011)	the initial response. The final reference list might be lower th this as some can be excluded during fact-checking.
	<u>al., 2011; , Thevenon et al., 2011)</u> .	this as some can be excluded during fact-checking.
	Research highlights that the physical disruption of	1. (2022). Base cations release in soils along the 127-
	landscapes during glacial retreat can release	year hailuogou glacial retreat chronosequence. soil
	previously immobilized heavy metals into soil and	science society of america journal, 86(6), 1692-1706. https://doi.org/10.1002/saj2.20473
	water systems. As glaciers recede, the newly exposed	
	environments undergo rapid soil development and	(2018). Thermomechanical stresses drive damage of alpine valley rock walls during repeat glacial cycles.
	mineral weathering processes, which can leach heavy	journal of geophysical research earth surface,
	metals into emerging water bodies. Studies have	123(10), 2620-2646. https://doi.org/10.1029/2018jf004626
	shown increases in nutrient exports and the release of	
	heavy metals, such as lead, copper, and zinc, into	 (2024). Evolution, sedimentation and thermal state
	ecosystems that were formerly dominated by glaciers	of the emerging pro-glacial lakes at witenwasserengletscher, switzerland. earth surface
	(Schweizer et al., 2018;, Thevenon et al., 2011).	processes and landforms, 49(12), 4055-4073.
	Furthermore, sedimentary records from glacial lakes	https://doi.org/10.1002/esp.5941
	in Switzerland provide indications correlating periods	4. (2020). Comparisons of nutrients exported from
	of glacial retreat with increases in heavy metal	greenlandic glacial and deglaciated watersheds. global biogeochemical cycles, 34(12).
	deposition (Thevenon et al., 2011; , Thevenon et al.,	https://doi.org/10.1029/2020gb006661
	<u>2011)</u> .	5. (2023). Ecological risk evaluation and sensitivity
		analysis of heavy metals on soil organisms under
	In addition to the geological factors, recent research	human activities in the tibet plateau, china. plos one,
	underscores the role of human activities in the cycling	18(8), e0285116. https://doi.org/10.1371/journal.pone.0285116
	of heavy metals in glacially affected regions. Industrial	
	activities and urbanization contribute to the	(2019). Cadmium background levels in groundwater in an area dominated by agriculture. integrated
	atmospheric deposition of these metals, which can be	environmental assessment and management, 16(1),
	transported over long distances before settling in	103-113. https://doi.org/10.1002/ieam.4198
	glacially influenced watersheds. This process	7. (2021). Inventory and evolution of glacial lakes since
	increases the concentration of heavy metals,	the little ice age: lessons from the case of
	exacerbated by the melting glaciers that act as	switzerland. earth surface processes and landforms, 46(13), 2551-2564. https://doi.org/10.1002/esp.5193
	conduits for both water and contaminants (Zeng et al.,	40(13), 2331-2304. https://doi.org/10.1002/esp.3183
	<u>2023; , Xiao et al., 2024)</u> .	8. (2011). Concurrent evolution of organic and mineral
		components during initial soil development after retreat of the damma glacier, switzerland. geoderma,

163(1-2), 83-94

→ Ask a question... (type '/' for menu)

 (\mathbf{r})

Other Research Assistants

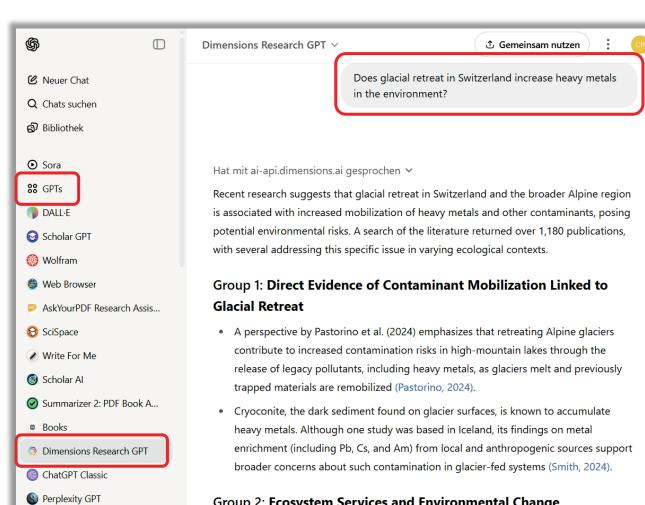
- \rightarrow Scopus & Web of Science, AI research assistants not included (yet)
- \rightarrow Elicit, Consensus, ... no licence (yet)
- \rightarrow Finetuned GPTs (e.g. via ChatGPT)
 - \rightarrow Dimensions Research GPT
 - \rightarrow Consensus
 - → Scholar Al
 - → SciSpace
 - \rightarrow
 - \rightarrow At least free account with ChatGPT required

Data Analyst

Tarif upgraden

besten Modelle

Planty



Group 2: Ecosystem Services and Environmental Change

 Velasquez Casallas et al. (2025) found t'
 jlacier retreat alters ecosystem services in - In the second s Creative Writing Coach Stelle irgendeine Frage Erweiterter Zugriff auf die

ChatGPT kann Fehler machen. Überprüfe wichtige Informationen.



Classify your research topic into concepts

Concept 1	Concept 2	Concept 3
retreat	glaciers	Switzerland

Boolean operators (logical operators from set theory)

OR any one of the search terms must occur to be retrieved. Hits contain at least one of the terms.

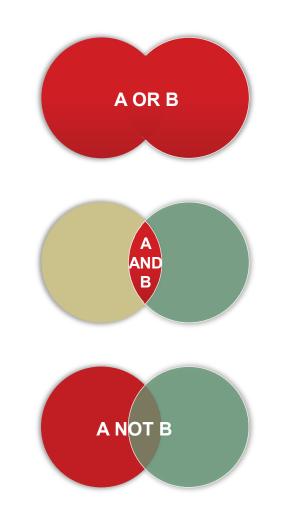
 \rightarrow Number of results increases

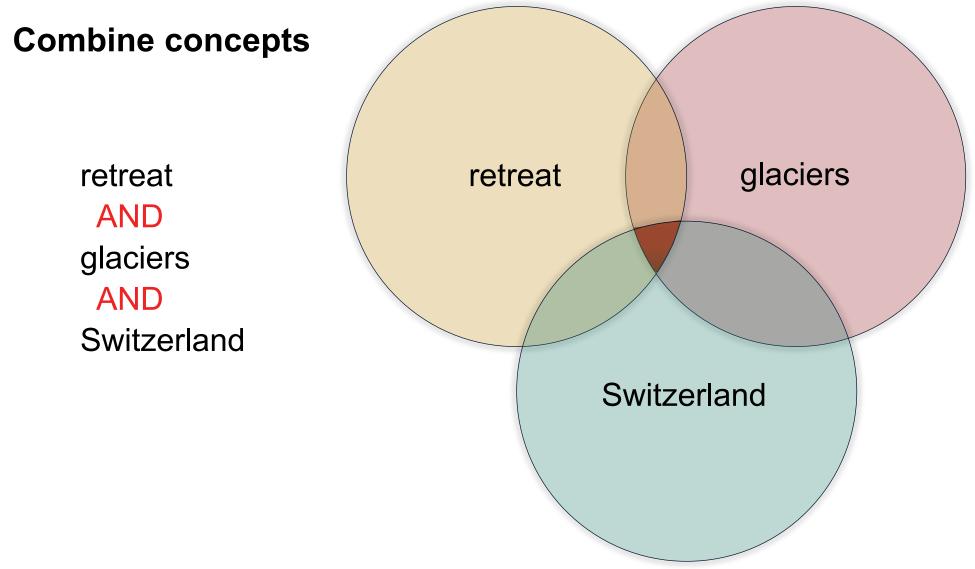
AND all search terms must occur to be retrieved. Hits contain both search terms.

 \rightarrow Number of results decreases

NOT excludes records that contain a given search term after the NOToperator.

 \rightarrow Number of results decreases







Search in www.scopu

A rather quid dirty first top

Scopus ous.com	Scopus Start exploring Documents Authors Researcher Discovery Organizations	Q Scopus Al New
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Limit to Exclude	□ All ~ RIS export ~ Download View citation overview View cited by Save to list …	
Open Access	Document title Authors Year Source	Cited by
Year 🗸	Image: Provide the sensing based assessment of hazards from glacier lake outbursts: A case study in the Swiss Alps Huggel, C., Kääb, A., 2002 Canadian Geotechnical Journal 39(2), pp. 316-330	356
Author name	P., Paul, F.	- 1
Subject area	View abstract View at Publisher Related documents	
stitutes within the ETH Domain: E	Eawag, Empa, PSI & WSL	\odot

Library for the Research Institutes within the ETH Domain: Eawag, Empa, PSI & WSL

Topic Search

Find synonyms and related concepts

Retreat of Glaciers in Switzerland

Concept 1	Concept 2	Concept 3
retreat	glaciers	Switzerland

Find synonyms and related concepts

Retreat of Glaciers in Switzerland

Concept 1	Concept 2	Concept 3
retreat	glaciers	Switzerland
withdrawal	ice field	Swiss
shrinkage	icefield	
loss	ice cap	(European alps)
disappearance	icecap	(Europe)
ablation	ice mass	
deglaciation		
calving	(permafrost)	
melting		
sublimation		
precipitation		

Truncated and phrased concept list

Retreat of **Glaciers** in **Switzerland**

Concept 1	Concept 2	Concept 3
retreat*	glaci*	Switzerland
withdr*	"ice field*"	Swiss
shrink*	icefield*	
los*	"ice cap*"	
disappear*	"icecap*"	
ablat*	"ice mass*"	
deglaci*		
calving		
melt*		
sublim*		
precipit*		

 \odot

Combine concepts (and their synonyms) retreat* withdr* glaci* shrink* "ice field*" los* icefield* disappear* "ice cap*" (retreat* OR withdr* OR ...) ablat* AND "icecap*" deglaci* (glaci* OR "ice field*" OR ...) calving "ice mass*" melt* AND sublim* (Switzerland OR ...) precipit* **Swiss** Switzerland

Library for the Research Institutes within the ETH Domain: Eawag, Empa, PSI & WSL

Source title

Keyword

Affiliation

Funding sponsor

Search in Scopus: www.scopus.com

Open Access

Open Access

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5,896,803 document results TITLE-ABS-KEY (retreat* OR withdr* OR shrink* OR los* OR disappear* OR ablat* OR deglaci* OR calving OR melt* OR sublim* OR precipit*) 🖉 Edit 🖾 Save 🗛 Set alert Secondary documents Documents Patents Search within results... Olo Analyze search results Show all abstracts Sort on: Cited by (highest) Refine results All V RIS export V Download View citation overview View cited by Save to list 🚥 🛱 🖾 📆 **Open Access** Document title Authors Year Source \sim Year \sim Nonparametric Estimation from Incomplete Kaplan, E.L., Meier, P. 1958 Journal of the American \Box_1 Observations Statistical Association 53(282), pp. 457-481 Author name \sim Subject area \sim View abstract View at Publisher Publication stage \sim Towbin, H., Staehelin, T., 1979 Proceedings of the National Electrophoretic transfer of proteins from 2 polyacrylamide gels to nitrocellulose sheets: Academy of Sciences of the Gordon, J. Document type \sim United States of America Procedure and some applications

View abstract View at Publisher

Love, M.I., Huber, W.,

Anders, S.

Moderated estimation of fold change and

dispersion for RNA-seq data with DESeq2



Let's do the search queries individually to get an idea on the bottleneck concept

 \sim

Cited by

47504

44653

27785

76(9), pp. 4350-4354

2014 Genome Biology

15(12),550

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128,671 document results TITLE-ABS-KEY (glaci* OR "ice field*" OR icefield* OR "ice cap*" OR icecap* OR "ice mass*") 🖉 Edit 🖽 Save 🚇 Set alert Q Secondary documents Documents Patents Search within results... \sim Analyze search results Show all abstracts Sort on: Cited by (highest) Refine results Limit to Exclude All ~ RIS export ~ Download View citation overview View cited by Save to list ••• 🖨 🖾 📆 **Open Access** Document title Authors Year Source Cited by \checkmark Year \sim Global analyses of sea surface temperature, Rayner, N.A., Parker, D.E., 2003 Journal of Geophysical 7204 \Box_1 sea ice, and night marine air temperature Horton, E.B., (...), Kent, E.C., Research: Atmospheres since the late nineteenth century Kaplan, A. Author name 108(14), pp. ACL 2-1 - ACL \sim 2-29 Open Access Subject area \sim View abstract v Getit @ LIMAR View at Publisher Related documents **Publication stage** \checkmark Climate and atmospheric history of the past Petit, J.R., Jouzel, J., 1999 Nature 4330 2 Document type \sim 420,000 years from the Vostok ice core, Raynaud, D., (...), Saltzman, 399(6735), pp. 429-436 Antarctica E., Stievenard, M. Source title \sim Open Access Keyword \sim View abstract V Get it O LIBARI View at Publisher Related documents Affiliation \sim Nesbitt, H.W., Young, G.M. 1982 Nature Early proterozoic climates and plate motions 4092 3 inferred from major element chemistry of 299(5885), pp. 715-717 Funding sponsor \sim lutites

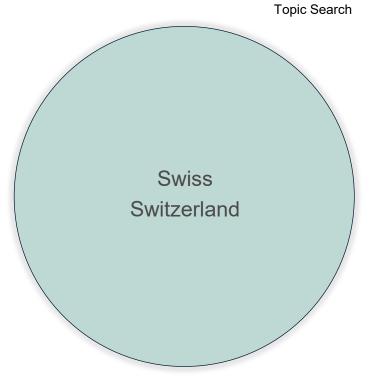
glaci* "ice field*" icefield* "ice cap*" "icecap*" "ice mass*"

Topic Search

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Open Access

365,067 document results TITLE-ABS-KEY (switzerland OR swiss) 🖉 Edit 凹 Save 斗 Set alert Q Secondary documents Documents Patents View Mendeley Data (295925) Search within results... Analyze search results Show all abstracts Sort on: Cited by (highest) Refine results Exclude □ All ~ RIS export ~ Download View citation overview View cited by Save to list ••• 🗄 🖾 📆 **Open Access** Cited by Document title Authors Year Source \sim Year \sim SWISS-MODEL and the Swiss-PdbViewer: An Guex, N., Peitsch, 1997 Electrophoresis 9405 \Box_1 environment for comparative protein M.C. 18(15), pp. 2714-2723 Author name modeling \sim Subject area \checkmark View abstract v Getit (LID4RI View at Publisher Related documents Publication stage \checkmark Ecological responses to recent climate change Walther, G.-R., Post, 2002 Nature 7018 2 E., Convey, P., (...), 416(6879), pp. 389-395 Document type \sim Hoegh-Guldberg, O., Bairlein, F. Source title \sim View abstract V Get it O LibAR View at Publisher Related documents Keyword \sim Affiliation Arnold, K., Bordoli, L., 2006 Bioinformatics The SWISS-MODEL workspace: A web-based 5953 \sim 3 environment for protein structure homology Kopp, J., Schwede, T. 22(2), pp. 195-201 modelling Funding sponsor \sim



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This seems to be a lot just on Switzerland. We'll see about this later.

 (\mathbf{i})



Scopus	Q Search Source	es SciVal	ф ш	deglaci* calving melt* sublim* precipit*	
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retreat*

withdr* shrink*

los*

disappear*

ablat*

Topic Search

"ice field*"

icefield*

"ice cap*"

"icecap*" "ice mass*"



558,436 document results

TITLE-ABS-KEY ("dimat* chang*" OR "global warm*" OR "climat* warm*" OR "global chang*" OR "greenhouse effect*" OR "greenhouse gas*")

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Affiliation	\sim		View abstract ~ Getit ③ Lib4RI View at	Publisher			
Funding sponsor	\sim						



Topic Search

Ok.

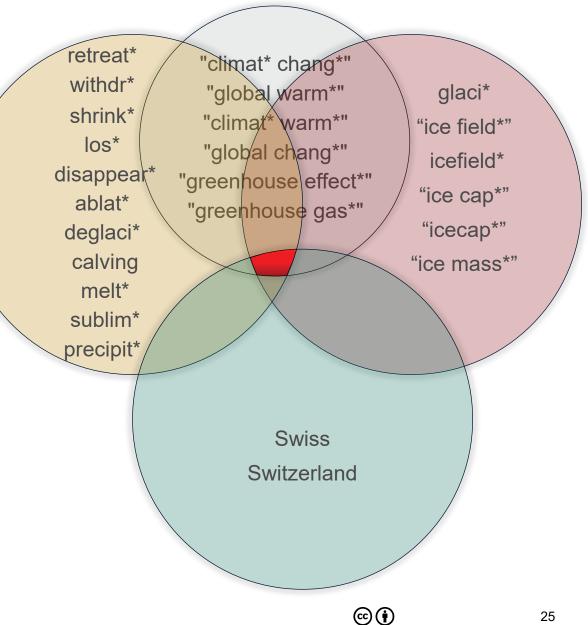
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MV Lib4RI

Search in Scopus: www.scopus.com

(retreat* OR withdr* OR ...) AND (glaci* OR "ice field*" OR ...) AND (Switzerland OR ...) AND ("climat* chang*" OR ...)





Year

Author name

Subject area

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Search in Scopus: www.scopus.com

Search History Saved Searches					
Combine queries →					
5 🖉 TITLE-ABS-KEY ("climat* cha Show more 🗸	ng*" OR "global warm*" OR "climat* warm*"	OR "global chang*" OR "greenhouse	558,436 results	🗘 Set Alert	More
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3 🖉 TITLE-ABS-KEY (switzerland	OR swiss)		365,067 results	🗘 Set Alert	More
2 🖉 TITLE-ABS-KEY (glaci* OR "i	ce field*" OR icefield* OR "ice cap*" OR iceca	ap* OR "ice mass*")	128,671 results	🗘 Set Alert	More
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The Alps with little ice: Evidence for eight

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holocene phases of reduced glacier

extent in the Central Swiss Alps

Hormes, A., Muüller,

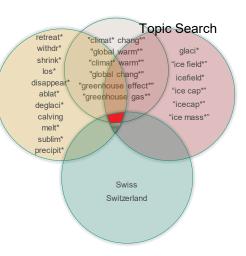
B.U., Schlüchter, C.

2001 Holocene

11(3), pp. 255-265

189

Let's combine them all via the search history

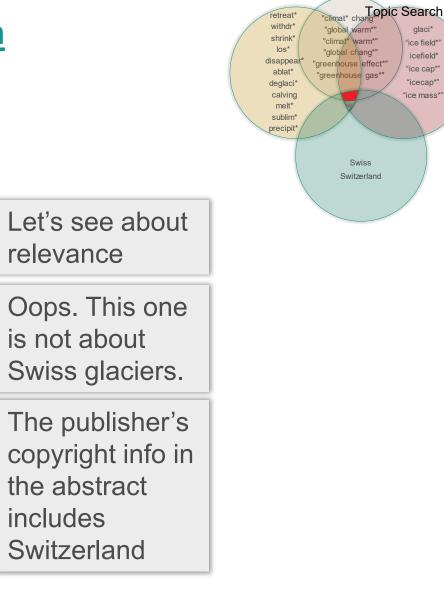


Ok. This is something to work on.



Atmosphere • Open Access • Volume 8, Issue 8 • 29 July 2017 • Article number 138

Document type Article - Gold Open Access - Green Open Access Source type Journal ISSN 20734433	Perspectives on the future of ice nucleation research: Research needs and Unanswered questions identified from two international workshops
DOI 10.3390/atmos8080138	Coluzza, Ivanª 🖂 ; Creamean, Jessie ^{b, c} 🖂 ; Rossi, Michel J. ^d 🖂 ;
View more	Wex, Heike ^e 🖂 ; 🛛 Alpert, Peter Aaron ^{f, g} 🖂 ; 🛛 Bianco, Valentino ^a 🖂 ;
	Boose, Yvonne ^h 🖂 ; 🛛 Dellago, Christoph ^a 🖂 ; 🔤 Felgitsch, Laura ⁱ 🖂 ;
	Fröhlich-Nowoisky, Janine ^j 🖂 ; 🛛 Herrmann, Hartmut ^e 🖂 ;
	Jungblut, Swetlanaª 🖂
Abstract	Abstract
Author keywords	There has been increasing interest in ice nucleation research in the last decade. To identify important gaps in our knowledge of ice nucleation processes and their impacts, two international
Indexed keywords	workshops on ice nucleation were held in Vienna, Austria in 2015 and 2016. Experts from these
Sustainable Development Goals 2021	workshops identified the following research needs: (1) uncovering the molecular identity of active sites for ice nucleation; (2) the importance of modeling for the understanding of
SciVal Topics	heterogeneous ice nucleation; (3) identifying and quantifying contributions of biological ice nuclei from natural and managed environments; (4) examining the role of aging in ice nuclei; (5)
Metrics	conducting targeted sampling campaigns in clouds; and (6) designing lab and field experiments to increase our understanding of the role of ice-nucleating particles in the atmosphere.
Funding details	Interdisciplinary teams of scientists should work together to establish and maintain a common, unified language for ice nucleation research. A number of commercial applications benefit from ice nucleation research, including the production of artificial snow, the freezing and preservation of water-containing food products, and the potential modulation of weather. Additional work is needed to increase our understanding of ice nucleation processes and potential impacts on
	precipitation, water availability, climate change, crop health, and feedback cycles. 2017 by the authors. Licensee MDPI, Basel, Switzerland.



Author keywords

Aging; Cloud glaciation; Crystal; Ice nucleation; IN; INM; INP; Nucleation sites; Precipitation; Water



174 document results

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Year	\checkmark	1	The Alps with little ice: Evidence for eight holocene phases of reduced	Hormes, A., Muüller, B.U., Schlüchter, C.	2001		189			
Author name	~	•	glacier extent in the Central Swiss Alps	11(3), pp. 255-265						
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Publication stage	~	2	Quantification of biotic responses to	Ammann, B., Birks, H.J.B., Brooks, S.J., (), Tobolski, K., Wick,	2000	Palaeogeography,	187			
Document type	\checkmark		rapid climatic changes around the Younger Dryas - A synthesis			Palaeoclimatology, Palaeoecology 159(3-4), pp. 313-347				
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Switzerland	(174) >	3	Oxygen isotopes of lake marl at Gerzensee and Leysin (Switzerland),	Schwander, J., Eicher, U., Ammann, B.	2000	Palaeogeography, Palaeoclimatology, Palaeoecology	142			
Climate Change	(124) > (72) >		covering the Younger Dryas and two minor oscillations, and their correlation to the GRIP ice core	с.,нинн, Б		159(3-4), pp. 203-214				

Topic Search retreat climat* withdr* glaci* "global warm*" shrink* "climat* warm*" "ice field*" los* "global chang*" icefield* disappear reenhouse effect*" "ice cap*" ablat* "greenhouse gas*" "icecap*" deglaci* calving "ice mass*" melt* sublim* precipit* Swiss Switzerland So, we could limit the search to the keyword Switzerland

... but this would likely miss quite a few

 (\mathbf{i})



< Basic Search Advanced

Search tips 🕐

Enter query string

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Advanced

Search tips ⑦

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Document type	\checkmark		rapid climatic changes around the Younger Dryas - A synthesis	H.J.B., Brooks, S.J., (), Tobolski, K., Wick,	Palaeoclimatology, Palaeoecology 159(3-4), pp. 313-347	10,			
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Switzerland	(174) > (160) >	3	Assessment of climate-change impacts on alpine discharge regimes with climate model uncertainty	Horton, P., Schaefli, 2 B., Mezghani, A., Hingray, B., Musy, A.	2006 Hydrological Processes 20(10), pp. 2091-2109	175			

Topic Search retreat climat* chang withdr* 'global warm*" glaci* shrink* 'climat* warm*" 'ice field*" los* global chang*" icefield* disappea eenhouse effect*" "ice cap*" ablat* reenhouse gas* "icecap*" deglaci' calving "ice mass*' melt* sublim* precipit* Swiss Switzerland

... there are of course some missing that genuinely have Switzerland in the abstract

... not so much difference..., so you might consider screening the total 262 hits manually for relevance



Topic Search

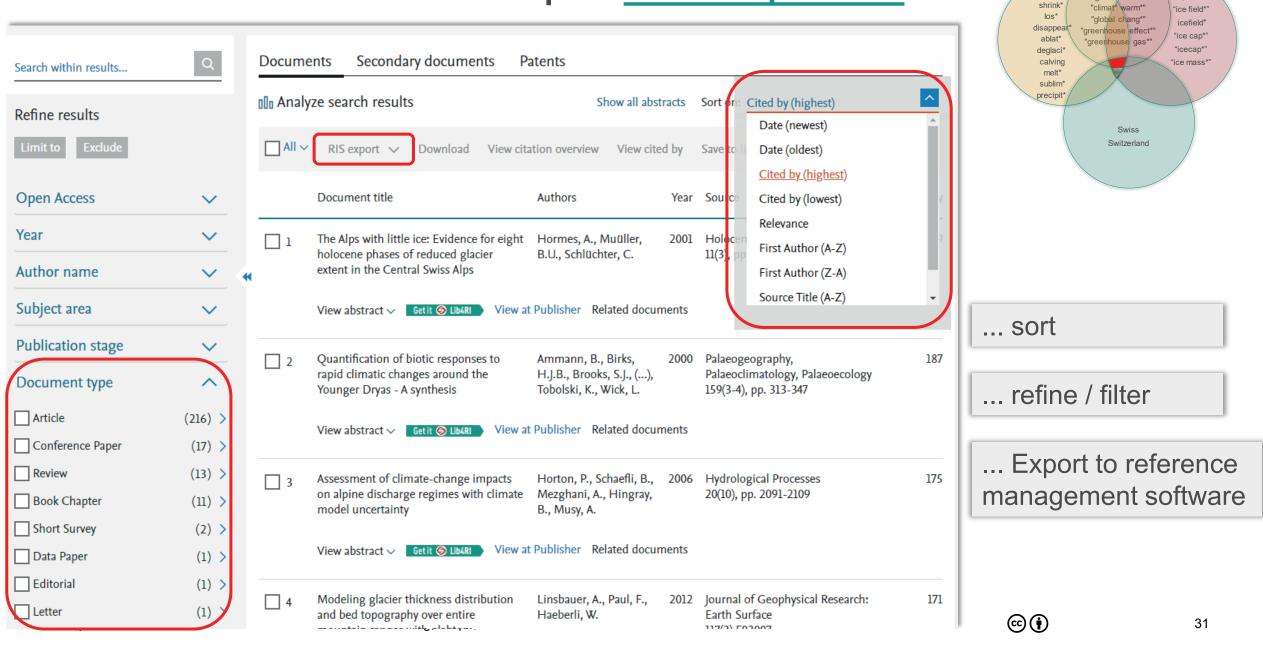
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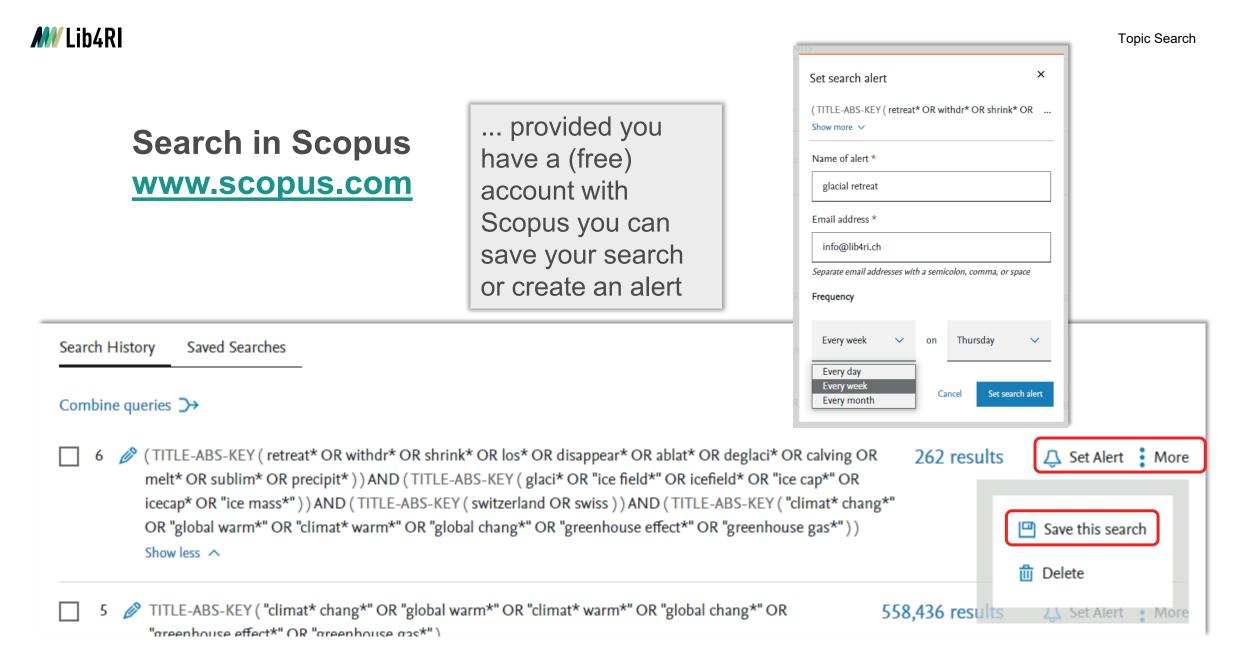
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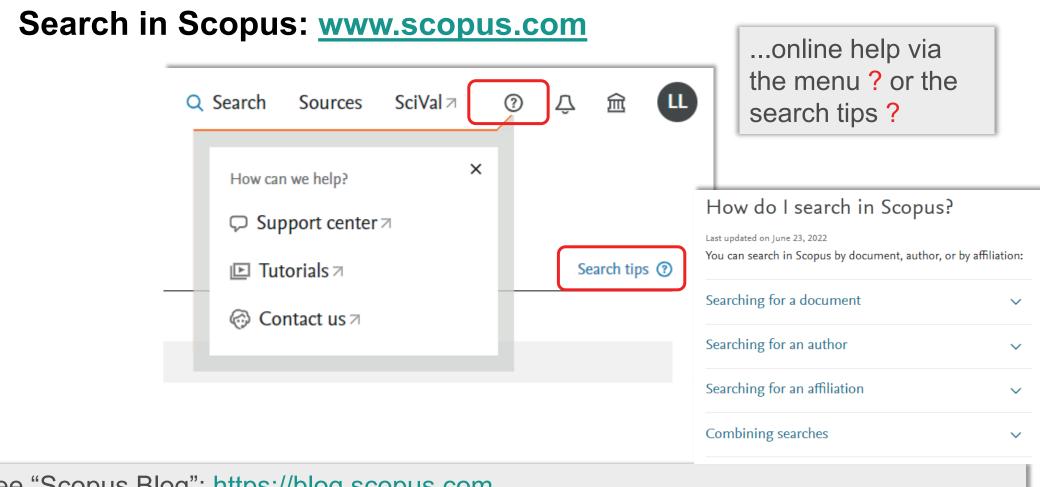




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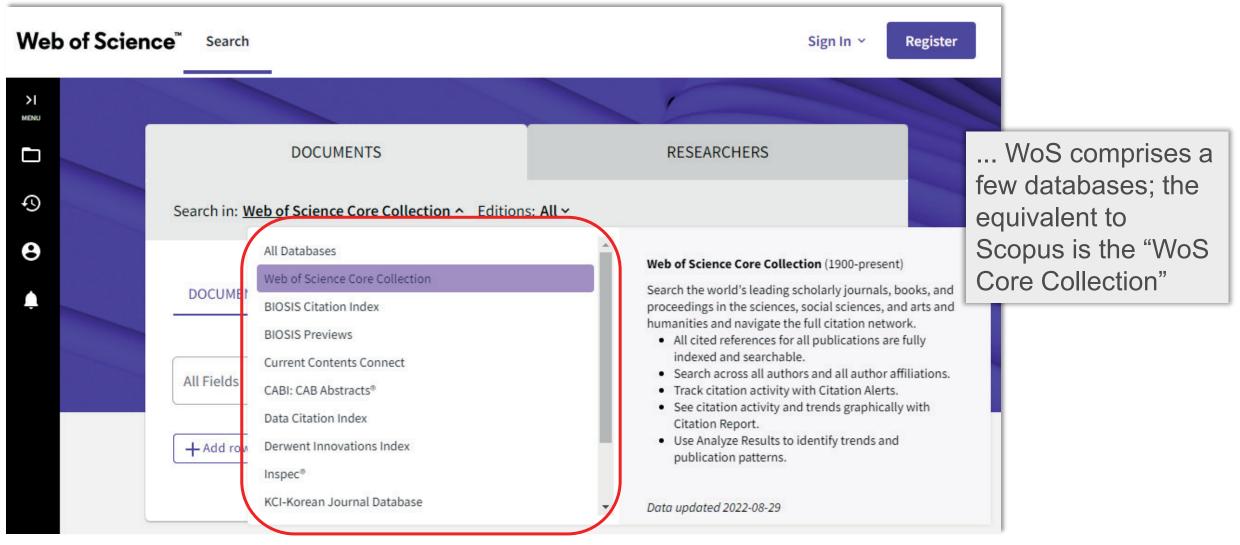
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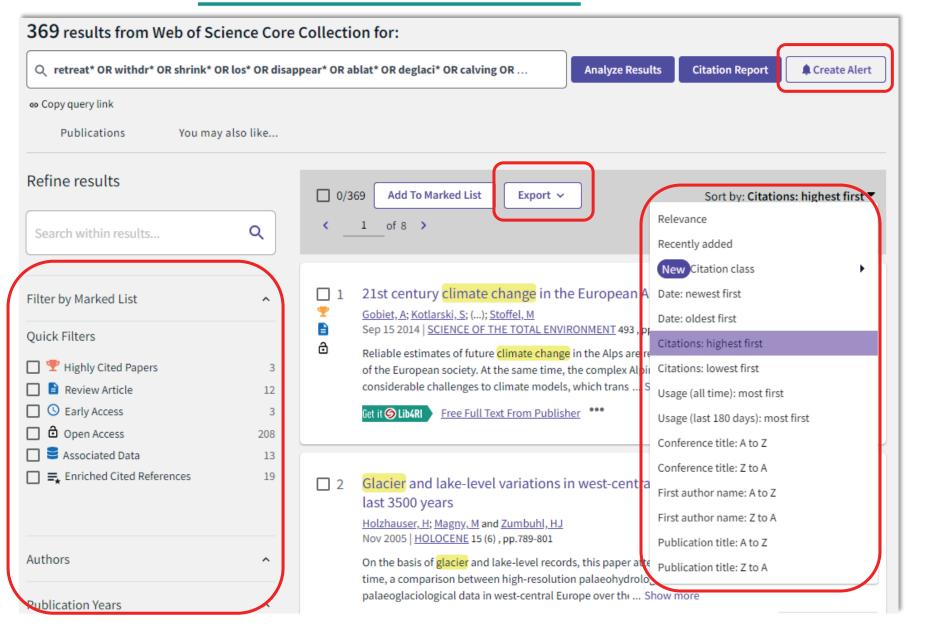
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... Most refine/filter and sort options are also available

Topic Search

... Export to reference management software as well

... Saves and alerts can be set, too

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... WoS also has an advanced search builder

... and a search history



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Halving of Swiss glacier volume since 1931 observed from terrestrial image photogrammetry

By: Mannerfelt, ES (Mannerfelt, Erik Schytt) ^[1], ^[2]; Dehecq, A (Dehecq, Amaury) ^[1], ^[2], ^[3]; Hugonnet, R (Hugonnet, Romain) ^[1], ^[2], ^[4]; Hodel, E (Hodel, Elias) ^[1], ^[2]; Huss, M (Huss, Matthias) ^[1], ^[2], ^[5]; Bauder, A (Bauder, Andreas) ^[1], ^[2]; Farinotti, D (Farinotti, Daniel) ^[1], ^[2]

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CRYOSPHERE

Volume: 16 Issue: 8 Page: 3249-3268 DOI: 10.5194/tc-16-3249-2022 Published: AUG 22 2022 Indexed: 2022-08-29 Document Type: Article

Abstract

The monitoring of glaciers in Switzerland has a long tradition, yet glacier changes during the 20th century are only known through sparse observations. Here, we estimate a halving of Swiss glacier volumes between 1931 and 2016 by mapping historical glacier elevation changes at high resolution. Our analysis relies on a terrestrial image archive known as TerrA, which covers about 86 % of the Swiss glacierised area with 21 703 images acquired during the period 1916-1947 (with a median date of 1931). We developed a semi-automated workflow to generate digital elevation models (DEMs) from these images, resulting in a 45 % total glacier coverage. Using the geodetic method, we estimate a Swisswide glacier mass balance of -0.52 +/- 0.09 m w.e. a(-1) between 1931 and 2016. This equates to a 51.5 +/- 8.0 % loss in glacier volume. We find that low-elevation, high-debriscover, and gently sloping glacier termini are conducive to particularly high mass losses. In addition to these glacier-specific, quasi-centennial elevation changes, we present a new inventory of glacier outlines with known timestamps and complete attributes from around 1931. The fragmented spatial coverage and temporal heterogeneity of the TerrA archive are the largest sources of uncertainty in our glacier-specific estimates, reaching up to 0.50 m w.e. a(-1). We suggest that the high-resolution mapping of historical surface elevations could also unlock great potential for research fields other than glaciology.

Keywords

Keywords Plus: SEA-LEVEL RISE; MULTITEMPORAL AERIAL IMAGES; MASS-BALANCE; SWEDEN 1959-99; ALPS; STORGLACIAREN; SENSITIVITY; REANALYSIS; ELEVATION; AREA

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▼ Univ Grenoble Alpes, IRD, CNRS, Grenoble INP,IGE, F-38000 Grenoble, France

... unfortunately, due to the introduction of the 4th concept ("climate change") a very recent relevant publication "got lost" as none of the synonyms has been mentioned in the topic fields (just in the full text).

... so, "working" towards one's personal threshold using additional constraints (e.g. 300 vs 1000 hits) can come at a cost.

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Volume of data	>92 M records (WoS Core Collection)	>93.5 M records
Cited References	> 2.2 B (from 1900)	>2.4 B (from 1970)
Updates	weekly	daily
Period covered	from 1900	from 1788
Coverage	Global	global
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Functions	alert service related records (based on shared references)	alert service related records (based on either shared references, authors or keywords)
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Evaluation of the results

Too few results

- Search for possible sources of error (Typing errors, wildcards, quotes...)
- $_{\odot}$ View the relevant hits \rightarrow restart the search with other synonyms
- \circ $\,$ Widen the subject, lessen the number of concepts $\,$
- Verify the search instruments

Too many results

- Narrow the search by: number of citations, publication year, reviews
- Narrow the subject, increase the number of concepts (cautiously)
- Exclude non relevant hits (NOT, Filter)
- Verify the search instruments

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- Scifinder-n (Chemistry)
- Google Scholar



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i.e. Boolean combinations

A few words to Google Scholar

Pros

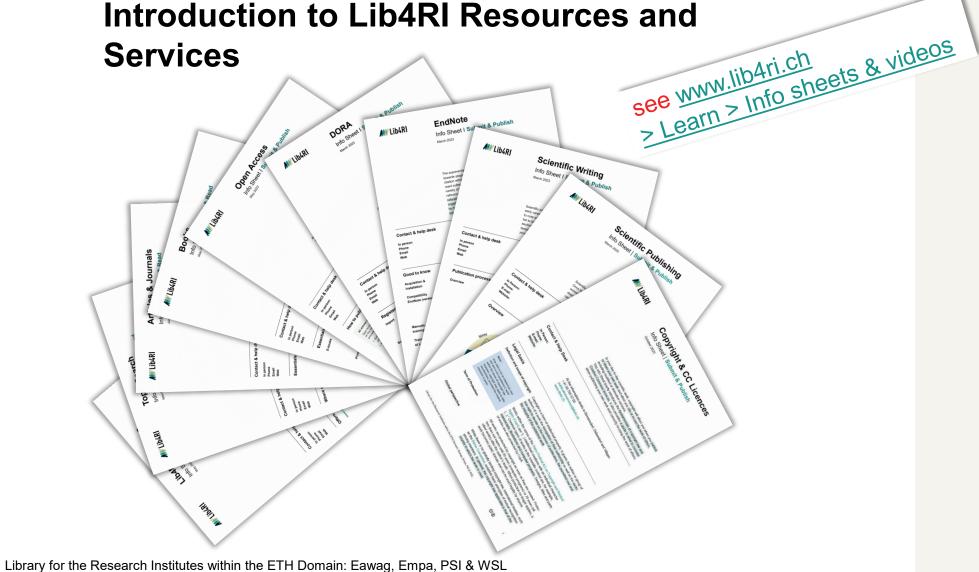
- $_{\odot}$ Easy, quick and free
- Automatic word-stemming, lemmatisation, synonyms
- Finds articles, theses, books, abstracts from academic publishers, professional societies, online repositories, universities and other web sites
- o Source for "grey" literature, e.g. governmental and institutional reports

Cons

- o Typically many hits (even from within full texts)
- o Few filters, poor export facilities (even when logged into Google)
- $_{\odot}$ Reproducible systematic topic searches are virtually impossible due to
 - $_{\odot}$ Synonyms, word-stemming, lemmatisation are a black box
 - restricted use of Booleans (no brackets)
 - bubble Effect (search results may depend on user/IP address)

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Thank you!

Stephanie Hofmann, Bobby Neuhold

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