

Autumn 2024

Topic Search

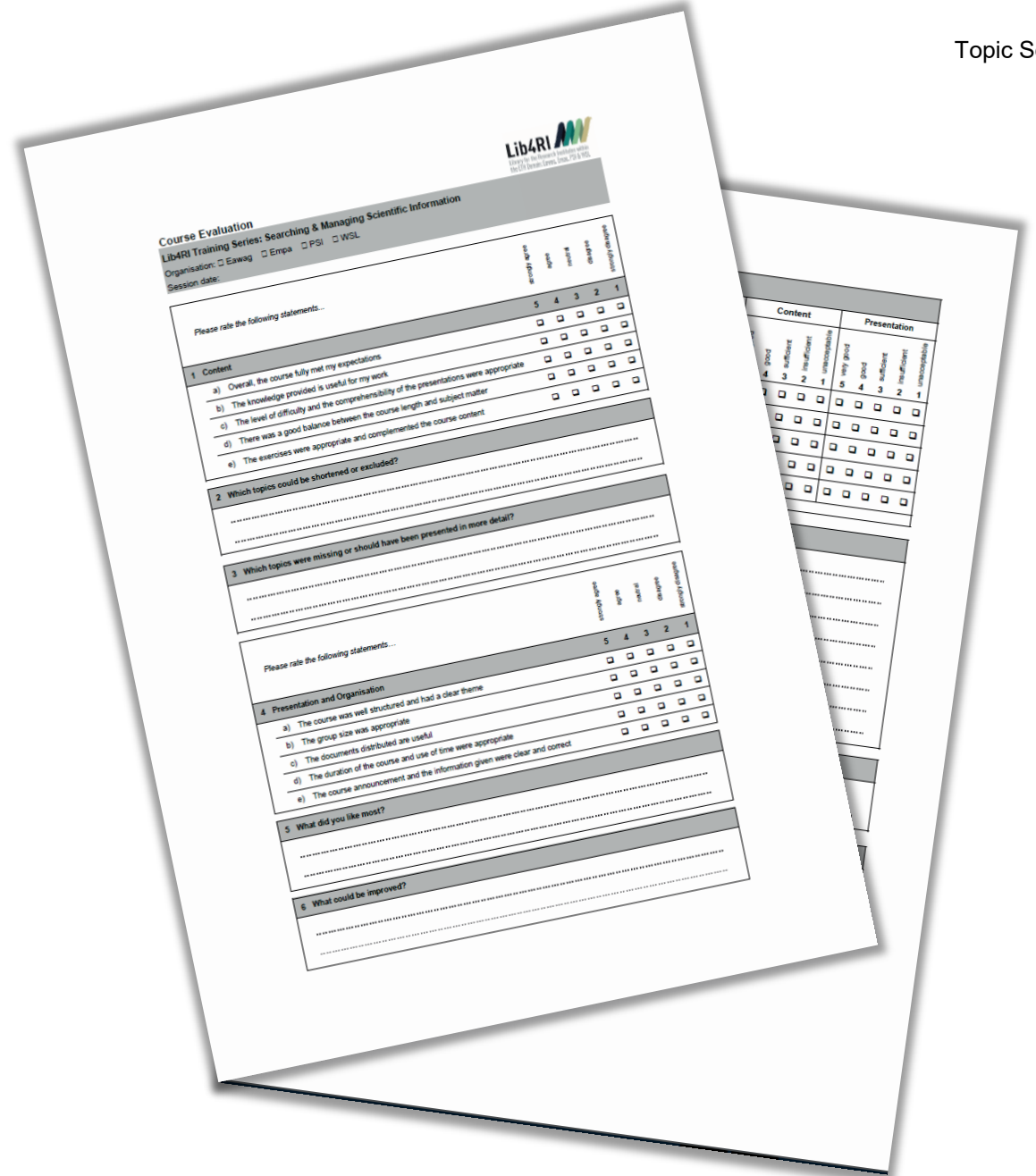
- o Steps before searching
- o Boolean Search: Scopus (incl. AI), Web of Science, swisscovery, ...
- o Refine & evaluate your results

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](#)



Course Evaluation
 Lib4RI Training Series: Searching & Managing Scientific Information
 Organisation: Eawag Empa PSI WSL
 Session date: _____

Please rate the following statements...

	5	4	3	2	1
1 Content					
a) Overall, the course fully met my expectations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) The knowledge provided is useful for my work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) The level of difficulty and the comprehensibility of the presentations were appropriate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) There was a good balance between the course length and subject matter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) There was a good balance between the course length and subject matter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) The exercises were appropriate and complemented the course content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2 Which topics could be shortened or excluded?

3 Which topics were missing or should have been presented in more detail?

Please rate the following statements...

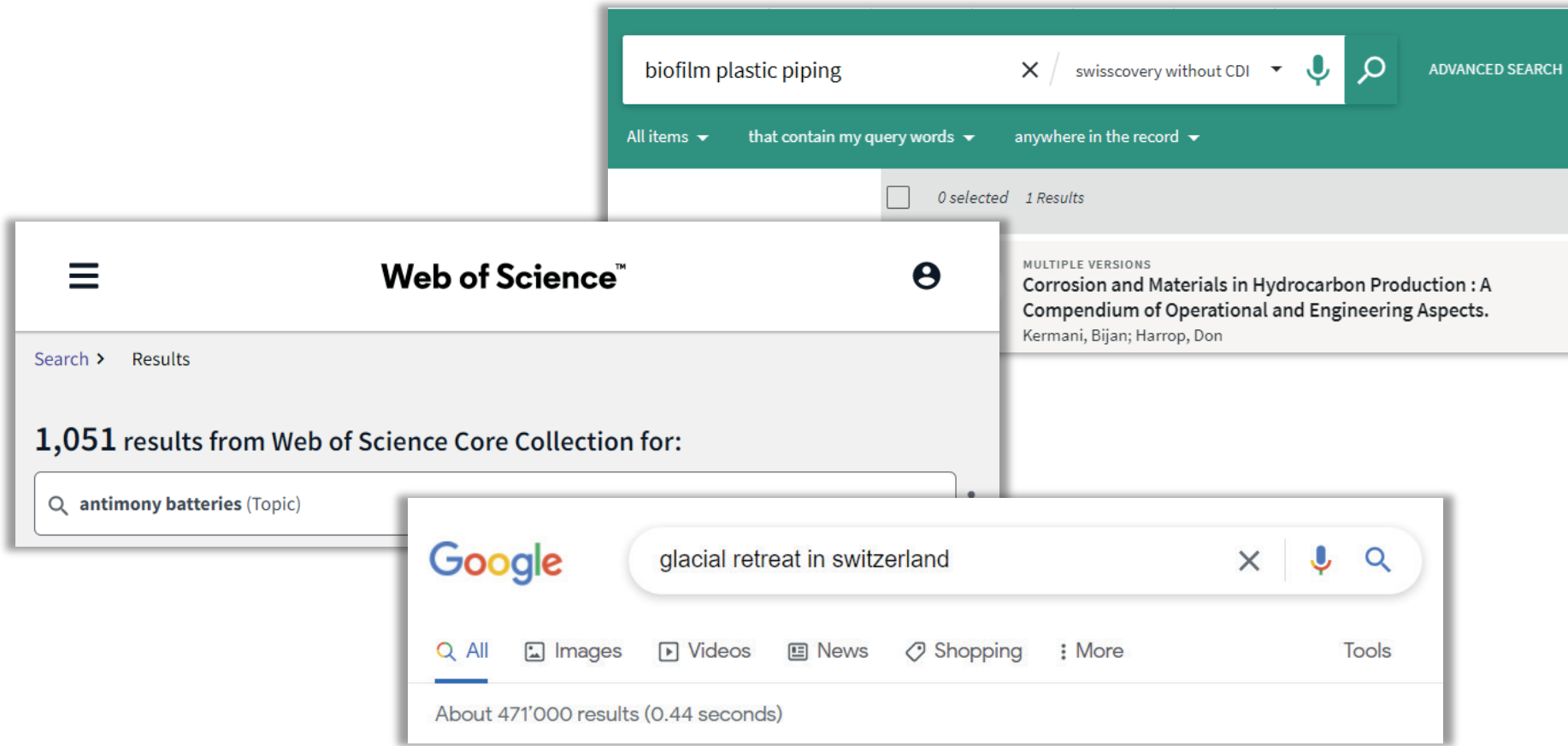
	5	4	3	2	1
4 Presentation and Organisation					
a) The course was well structured and had a clear theme	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) The group size was appropriate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) The documents distributed are useful	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) The duration of the course and use of time were appropriate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) The course announcement and the information given were clear and correct	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5 What did you like most?

6 What could be improved?

		Content				Presentation				
	5	4	3	2	1	5	4	3	2	1
subject	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
introduction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
exercises	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
very good	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
good	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
insufficient	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
insufficient	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
insufficient	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

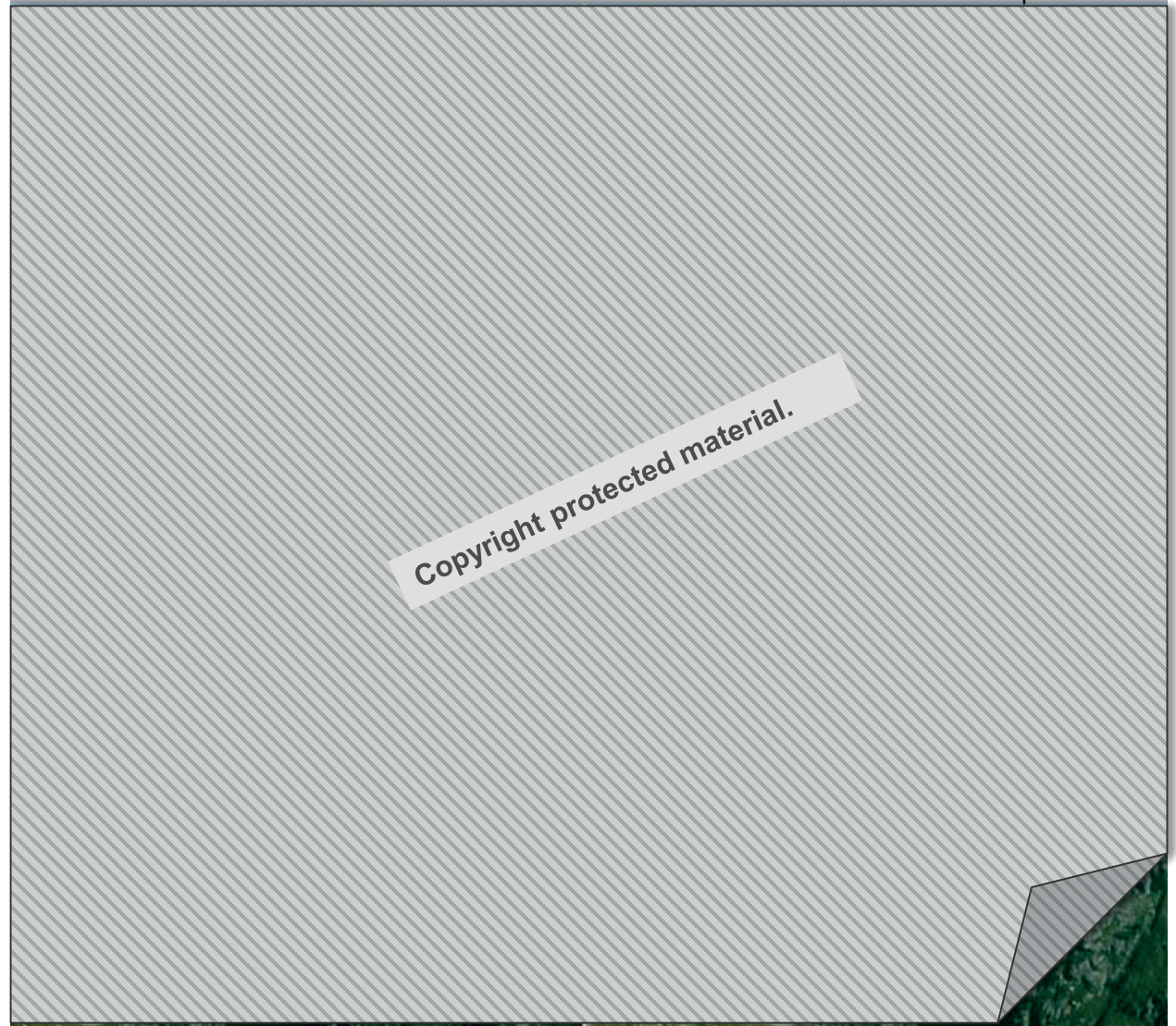
«Some search in order to find; and some find in order to end the effort of searching.» (Elazar Benyouët)



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

- **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)
- **Which material do you need?**
Books, PhD theses, articles,
→ 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

- **Orientation / definition of the terms**

- Reference works (encyclopaedias, dictionaries, etc.)
- Manuals
- Wikipedia
- ~~Some key papers/books you already have~~

- **Comprehensive searches with current issues**

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

- **Historical searches**

- Bibliographies
- Card index
- Archives

Before searching – analyse your topic

Analysis of the central terms of the topic

Define core concepts:

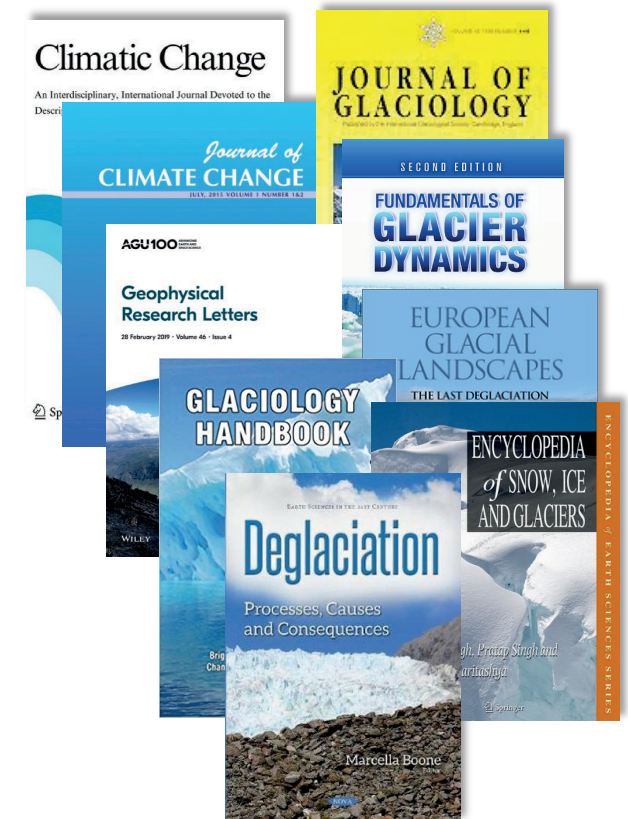
- Include synonyms, beware of homonyms
- Define super- and subordinate terms
- Check related terms
- Translate the search terms (if necessary)

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
- Ambiguous and uncommon abbreviations
- Singular and plural forms (covered by Scopus & WoS)

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



Truncation, placeholders and wildcards

Electronic search tools generally seek character strings, not meanings.

→ 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)

→ Topic search: colo\$r, finds color and colour

? Represents any one character (Scopus, WoS)

→ 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)

→ 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: WoS and Scopus 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**: 370,229 hits

Web of Science search for **”energy transition”**: 7,396 hits

<p>48 How to promote energy transition in China: From the perspectives of interregional relocation and environmental regulation</p> <p>Huang, LY and Zou, YJ Oct 2020 ENERGY ECONOMICS 92</p> <p>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</p> <p> View full text ...</p>	<p>6 Citations</p> <hr/> <p>45 References</p> <hr/> <p>Related records</p>
<p>49 Will small energy consumers be faster in transition? Evidence from the early shift from coal to oil in Latin America</p> <p>Rubio, MDM and Folchi, M Nov 2012 ENERGY POLICY 50 , pp.50-61</p> <p>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</p> <p> Free Accepted Article From Repository Full Text at Publisher ...</p>	<p>36 Citations</p> <hr/> <p>66 References</p> <hr/> <p>Related records</p>

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

Classify your research topic into concepts

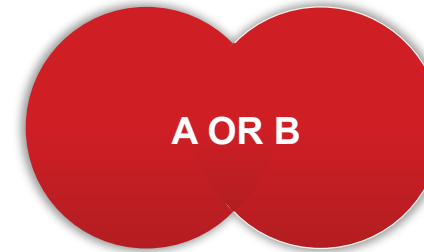
Retreat of **Glaciers** in **Switzerland**

Concept 1	Concept 2	Concept 3
retreat	glaciers	Switzerland

Boolean operators (logical operators from set theory)

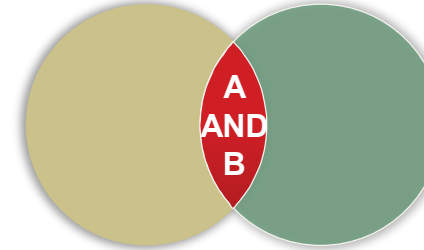
OR any one of the search terms must occur to be retrieved. Hits contain at least one of the terms.

→ Number of results increases



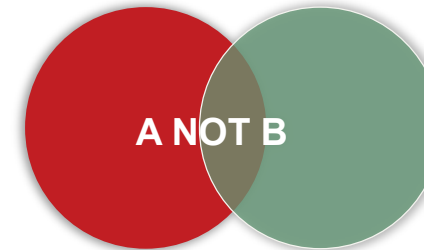
AND all search terms must occur to be retrieved. Hits contain both search terms.

→ Number of results decreases



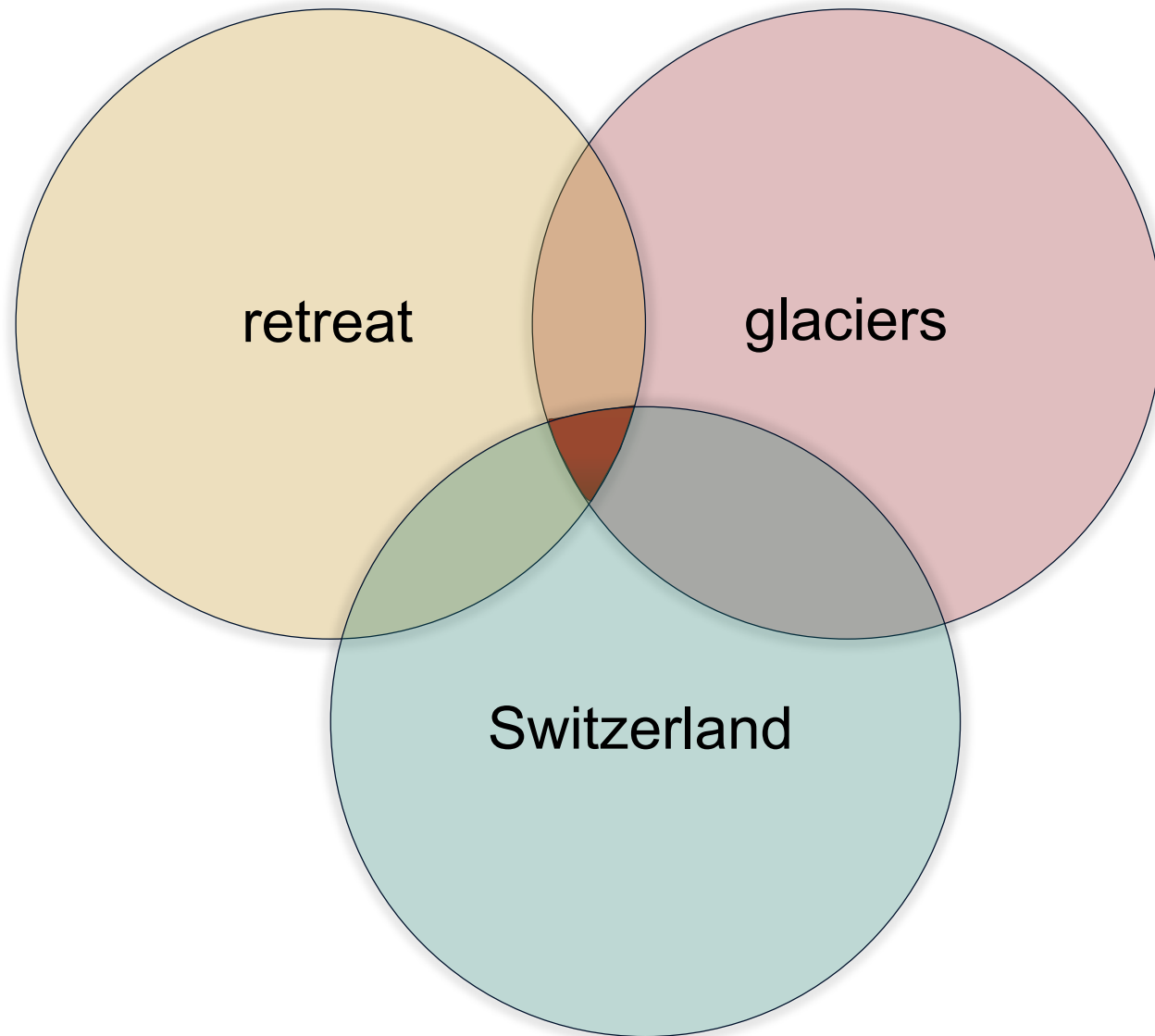
NOT excludes records that contain a given search term after the NOT-operator.

→ Number of results decreases



Combine concepts

retreat
AND
 glaciers
AND
 Switzerland



Search in Scopus

www.scopus.com

A rather quick and dirty first topic search

The screenshot shows the Scopus homepage with the 'Documents' tab selected. A search query 'retreat AND glaciers AND Switzerland' is entered in the search bar. The search scope is set to 'Article title, Abstract, Keywords'.

The screenshot shows the search results page for 196 documents. The search criteria are 'TITLE-ABS-KEY (retreat AND glaciers AND switzerland)'. The results are sorted by 'Cited by (highest)'. A table of results is shown below.

	Document title	Authors	Year	Source	Cited by
1	Remote sensing based assessment of hazards from glacier lake outbursts: A case study in the Swiss Alps	Huggel, C., Kääb, A., Haeblerli, W., Teysseire, P., Paul, F.	2002	Canadian Geotechnical Journal 39(2), pp. 316-330	356

Find synonyms and related concepts

Retreat of Glaciers in Switzerland

Concept 1	Concept 2	Concept 3
retreat	glaciers	Switzerland

Scopus AI

- get quickly acquainted with a topic
- find other relevant terms from Copilot's keyword search, key and foundational references for a comprehensive topic search and/or a forward citation search

Explore topics and discover relevant references since 2003 [How it works](#)

How does climate change affect glacial retreat in Switzerland?

...pose your question in natural language

How does climate change affect glacial retreat in Switzerland?

Copilot steps

- Hide Copilot steps ^
- Creating plan to answer your query
 - Performing natural language search:
 - Effects of climate change on glacial retreat in Switzerland
 - Performing keyword search:
 - ("climate change" OR "global warming" OR "climate crisis" OR "climate emergency") AND ("glacial retreat" OR "glacier melting" OR "ice loss" OR "glacier shrinkage") AND "Switzerland"
 - Generating summary

...and more

Expanded summary

Concept map

Topic experts

Go deeper

- ↳ What are the primary causes of glacial retreat in Switzerland?
- ↳ How does glacial retreat in Switzerland impact local ecosystems?
- ↳ What measures are being taken to mitigate the effects of climate change on glacial retreat in Switzerland?

Summary

Summary:

Climate change significantly impacts glacial retreat in Switzerland, primarily through rising temperatures and altered precipitation patterns.

- Temperature Increase:** Since 1900, temperatures in the European Alps have risen by up to 2°C, a rate three times the global average [1](#). This warming accelerates surface melt and contributes to the rapid retreat of glaciers [2](#).
- Precipitation Changes:** Future climate scenarios predict that by 2100, winters in Switzerland may warm by 3-5°C and summers by 6-7°C, with increased winter precipitation and decreased summer precipitation [1](#). These changes affect the hydrological regime, leading to earlier snowmelt and altered runoff patterns [1](#).
- Glacier Volume Loss:** Alpine glaciers are projected to lose between 50% and 90% of their current volume by 2100 [1](#). This significant reduction in ice volume is driven by both increased surface melt and reduced snowfall [2](#).
- Natural Hazards:** The retreat of glaciers increases the risk of natural hazards such as glacier-dammed lake outbursts and landslides due to destabilized slopes [4](#) [5](#).
- Sediment Dynamics:** Glacial retreat also affects sediment release and transfer in river basins, leading to increased sedimentation downstream [6](#) [7](#).

References

...get a summary with key and foundational references

- 1 Impact of climate change on glacial retreat in the Alps: A review of recent research. *Beniston, J. M. F. *Journal of Hydrology* 2012*
- 2 Subglacial erosion and the increasing frequency of Alpine glacier snout collapse. Egli P.E., Belotti B., Ouvry B., (...), Lane S.N. *Geophysical Research Letters* 2021
- 3 The flaw in the thaw. Pearce F. *New Scientist* 2005

[Show all 8 references](#)

Foundational documents

386 citations
Climate change and its impacts on glaciers and



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*		

Combine concepts (and their synonyms)

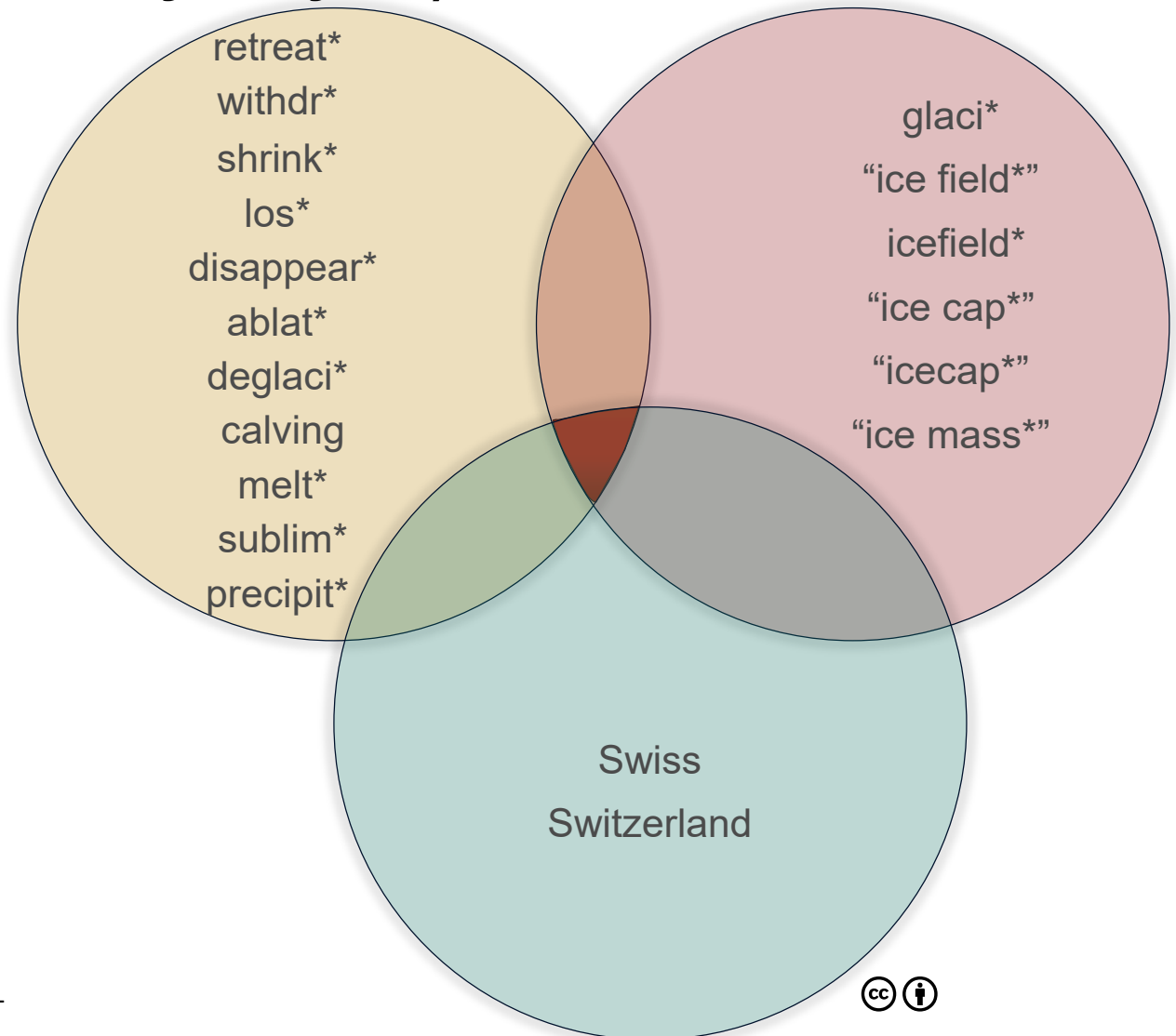
(retreat* OR withdr* OR ...)

AND

(glaci* OR "ice field*" OR ...)

AND

(Switzerland OR ...)



Search in Scopus: www.scopus.com

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

Search within results...

Refine results

Limit to Exclude

Open Access

Year

Author name

Subject area

Publication stage

Document type

Source title

Keyword

Affiliation

Funding sponsor

Documents Secondary documents Patents

Analyze search results Show all abstracts Sort on: Cited by (highest)

All RIS export Download View citation overview View cited by Save to list

	Document title	Authors	Year	Source	Cited by
<input type="checkbox"/> 1	Nonparametric Estimation from Incomplete Observations	Kaplan, E.L., Meier, P.	1958	Journal of the American Statistical Association 53(282), pp. 457-481	47504
	View abstract	Get it Lib4RI	View at Publisher		
<input type="checkbox"/> 2	Electrophoretic transfer of proteins from polyacrylamide gels to nitrocellulose sheets: Procedure and some applications <i>Open Access</i>	Towbin, H., Staehelin, T., Gordon, J.	1979	Proceedings of the National Academy of Sciences of the United States of America 76(9), pp. 4350-4354	44653
	View abstract	Get it Lib4RI	View at Publisher		
<input type="checkbox"/> 3	Moderated estimation of fold change and dispersion for RNA-seq data with DESeq2 <i>Open Access</i>	Love, M.I., Huber, W., Anders, S.	2014	Genome Biology 15(12),550	27785



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

Search in Scopus: www.scopus.com

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](#)

Search within results...



Refine results

[Limit to](#) [Exclude](#)

[Open Access](#)

[Year](#)

[Author name](#)

[Subject area](#)

[Publication stage](#)

[Document type](#)

[Source title](#)

[Keyword](#)

[Affiliation](#)

[Funding sponsor](#)

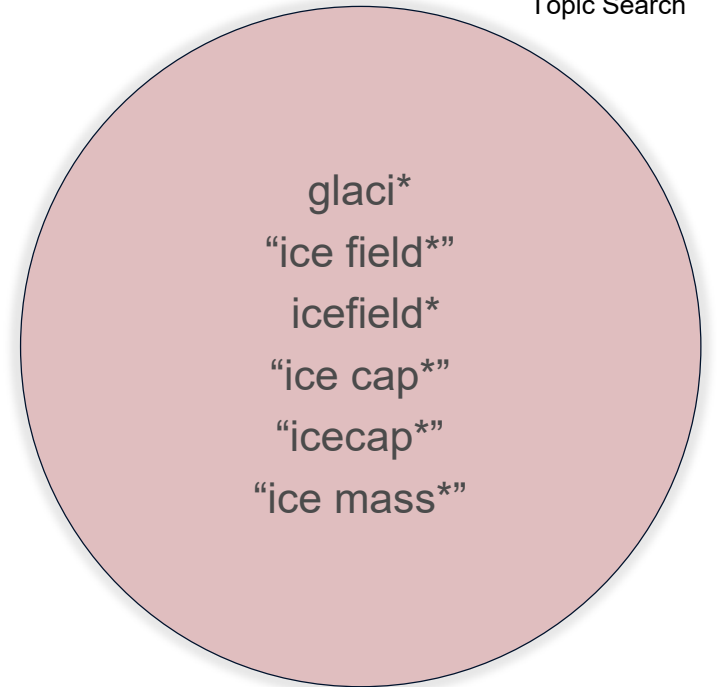
[Documents](#) [Secondary documents](#) [Patents](#)

Analyze search results

Show all abstracts Sort on: [Cited by \(highest\)](#)

All [RIS export](#) [Download](#) [View citation overview](#) [View cited by](#) [Save to list](#)

	Document title	Authors	Year	Source	Cited by
<input type="checkbox"/> 1	Global analyses of sea surface temperature, sea ice, and night marine air temperature since the late nineteenth century <i>Open Access</i>	Rayner, N.A., Parker, D.E., Horton, E.B., (...), Kent, E.C., Kaplan, A.	2003	Journal of Geophysical Research: Atmospheres 108(14), pp. ACL 2-1 - ACL 2-29	7204
	View abstract Get it Lib4RI View at Publisher Related documents				
<input type="checkbox"/> 2	Climate and atmospheric history of the past 420,000 years from the Vostok ice core, Antarctica <i>Open Access</i>	Petit, J.R., Jouzel, J., Raynaud, D., (...), Saltzman, E., Stievenard, M.	1999	Nature 399(6735), pp. 429-436	4330
	View abstract Get it Lib4RI View at Publisher Related documents				
<input type="checkbox"/> 3	Early proterozoic climates and plate motions inferred from major element chemistry of lutites	Nesbitt, H.W., Young, G.M.	1982	Nature 299(5885), pp. 715-717	4092



Search in Scopus: www.scopus.com

365,067 document results

TITLE-ABS-KEY (switzerland OR swiss)

Edit Save Set alert

Search within results...

Documents Secondary documents Patents View Mendeley Data (295925)

Analyze search results Show all abstracts Sort on: Cited by (highest)

All RIS export Download View citation overview View cited by Save to list

	Document title	Authors	Year	Source	Cited by
<input type="checkbox"/> 1	SWISS-MODEL and the Swiss-PdbViewer: An environment for comparative protein modeling	Guex, N., Peitsch, M.C.	1997	Electrophoresis 18(15), pp. 2714-2723	9405
	View abstract Get it Lib4RI View at Publisher Related documents				
<input type="checkbox"/> 2	Ecological responses to recent climate change	Walther, G.-R., Post, E., Convey, P., (...), Hoegh-Guldberg, O., Bairlein, F.	2002	Nature 416(6879), pp. 389-395	7018
	View abstract Get it Lib4RI View at Publisher Related documents				
<input type="checkbox"/> 3	The SWISS-MODEL workspace: A web-based environment for protein structure homology modelling	Arnold, K., Bordoli, L., Kopp, J., Schwede, T.	2006	Bioinformatics 22(2), pp. 195-201	5953
	Open Access				

Refine results

Limit to Exclude

Open Access

Year

Author name

Subject area

Publication stage

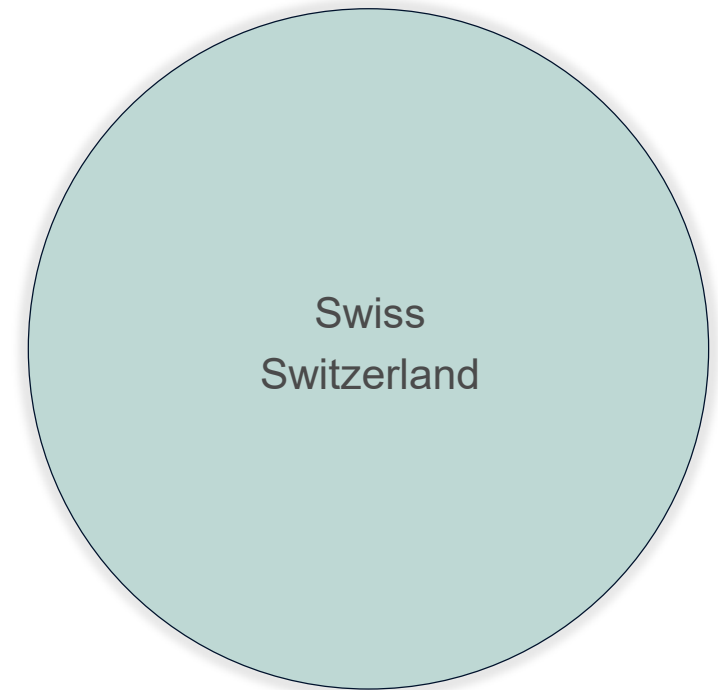
Document type

Source title

Keyword

Affiliation

Funding sponsor



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

Search in Scopus: www.scopus.com

The screenshot shows the Scopus search interface. At the top, there are navigation links for Search, Sources, SciVal, and user profile. The main area is titled 'Combine queries' and features a query builder with three search boxes, each containing a search term and an 'AND' operator. Below the query builder are buttons for 'Change all operators', 'Clear', and 'Show results'. The search history section below shows three previous searches, each with a checkbox, a search icon, the query text, the number of results, and options to set an alert or view more. The first search in the history is highlighted with a red box.

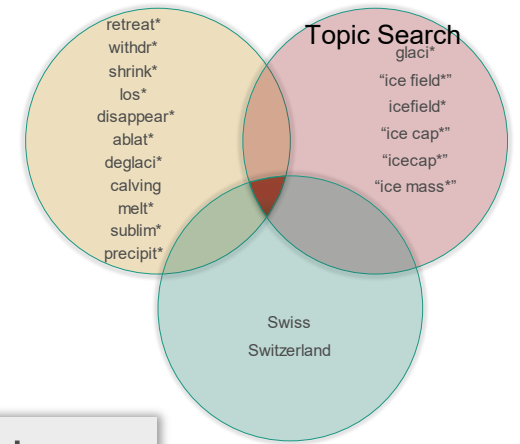
Search History

Search ID	Query	Results	Alert	More
3	TITLE-ABS-KEY (switzerland OR swiss)	365,067 results	Set Alert	More
2	TITLE-ABS-KEY (glaci* OR "ice field*" OR icefield* OR "ice cap*" OR icecap* OR "ice mass**")	128,671 results	Set Alert	More
1	TITLE-ABS-KEY (retreat* OR withdr* OR shrink* OR los* OR disappear* OR ablat* OR deglaci* OR calving OR melt* OR sublim* OR precipit*)	5,896,803 results	Set Alert	More

1,044 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*)) AND (TITLE-ABS-KEY(glaci* OR "ice field*" OR icefield* OR "ice cap*" OR icecap* OR "ice mass**")) AND ((TITLE-ABS-KEY(switzerland OR swiss)))

Edit Save Set alert



Let's combine them via the search history

Quite a few hits

Maybe relate them to **climate change**?

Are they all relevant?

Search in Scopus: www.scopus.com

558,436 document results

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

Edit Save Set alert

Search within results...

Refine results

Limit to Exclude

Open Access

Year

Author name

Subject area

Publication stage

Document type

Source title

Keyword

Affiliation

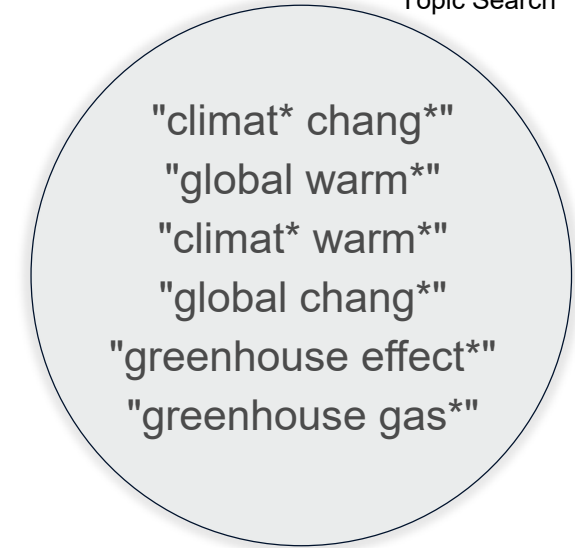
Funding sponsor

Documents Secondary documents Patents

Analyze search results Show all abstracts Sort on: Cited by (highest)

All RIS export Download View citation overview View cited by Save to list

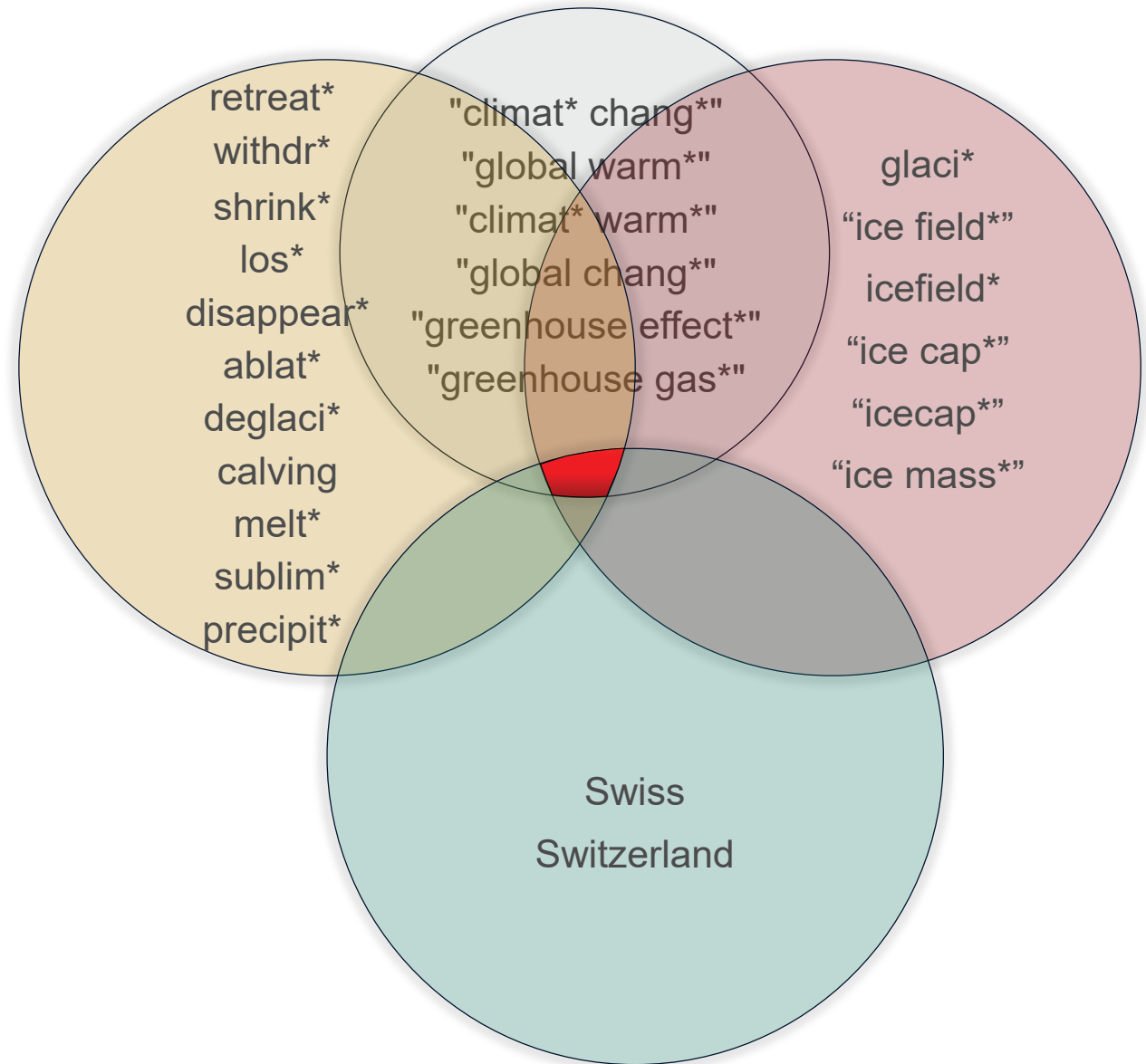
	Document title	Authors	Year	Source	Cited by
<input type="checkbox"/> 1	An overview of CMIP5 and the experiment design <i>Open Access</i>	Taylor, K.E., Stouffer, R.J., Meehl, G.A.	2012	Bulletin of the American Meteorological Society 93(4), pp. 485-498	9848
	View abstract View at Publisher Related documents				
<input type="checkbox"/> 2	Climate change 2013 the physical science basis: Working Group I contribution to the fifth assessment report of the intergovernmental panel on climate change (Book) <i>Open Access</i>	Stocker, T.F., Qin, D., Plattner, G.-K., (...), Bex, V., Midgley, P.M.	2013	<i>Climate Change 2013 the Physical Science Basis: Working Group I Contribution to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change</i> 9781107057999, pp. 1-1535	7714
	View abstract View at Publisher				



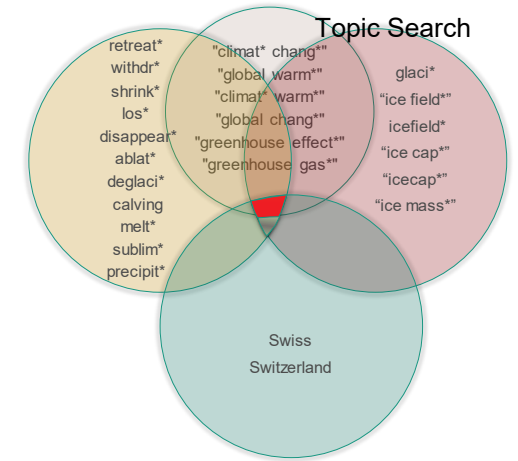
Ok.

Search in Scopus: www.scopus.com

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



Search in Scopus: www.scopus.com



Search History Saved Searches

Combine queries →

- 5 TITLE-ABS-KEY ("climat* chang*" OR "global warm*" OR "climat* warm*" OR "global chang*" OR "greenhouse ... 558,436 results
- 4 (TITLE-ABS-KEY (retreat* OR withdr* OR shrink* OR los* OR disappear* OR ablat* OR deglaci* OR calving OR melt* ... 1,044 results
- 3 TITLE-ABS-KEY (switzerland OR swiss) 365,067 results
- 2 TITLE-ABS-KEY (glaci* OR "ice field*" OR icefield* OR "ice cap*" OR icecap* OR "ice mass*") 128,671 results
- 1 TITLE-ABS-KEY (retreat* OR withdr* OR shrink* OR los* OR disappear* OR ablat* OR deglaci* OR calving OR melt* OR sublim* OR precipit*) 5,896,803 results

Let's combine them all via the search history

262 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*)) AND (TITLE-ABS-KEY (glaci* OR "ice field*" OR icefield* OR "ice cap*" OR icecap* OR "ice mass*")) AND (TITLE-ABS-KEY (switzerland OR swiss)) AND (TITLE-ABS-KEY ("climat* chang*" OR "global warm*" OR "climat* warm*" OR "global chang*" OR "greenhouse effect*" OR "greenhouse gas*"))

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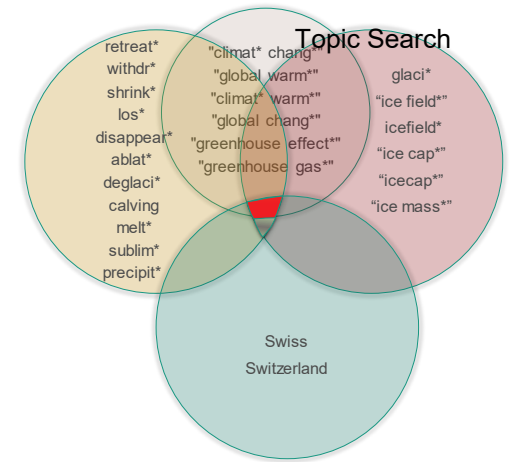
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Perspectives on the future of ice nucleation research: Research needs and Unanswered questions identified from two international workshops

Coluzza, Ivan^a ✉ ; Creamean, Jessie^{b,c} ✉ ; Rossi, Michel J.^d ✉ ;
 Wex, Heike^e ✉ ; Alpert, Peter Aaron^{f,g} ✉ ; Bianco, Valentino^a ✉ ;
 Boose, Yvonne^h ✉ ; Dellago, Christoph^a ✉ ; Felgitsch, Lauraⁱ ✉ ;
 Fröhlich-Nowoisky, Janine^j ✉ ; Herrmann, Hartmut^e ✉ ;
 Jungblut, Svetlana^a ✉

Abstract

Author keywords

Indexed keywords

Sustainable Development Goals 2021

SciVal Topics

Metrics

Funding details

Abstract

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 workshops on ice nucleation were held in Vienna, Austria in 2015 and 2016. Experts from these 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 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) 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. 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

Let's see about relevance

Oops. This one is not about Swiss glaciers.

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Climate Change (124)

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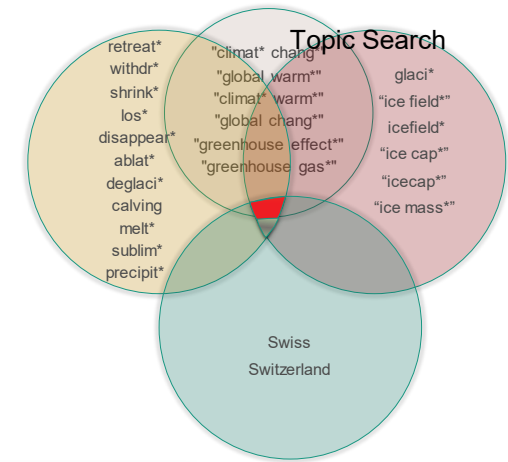
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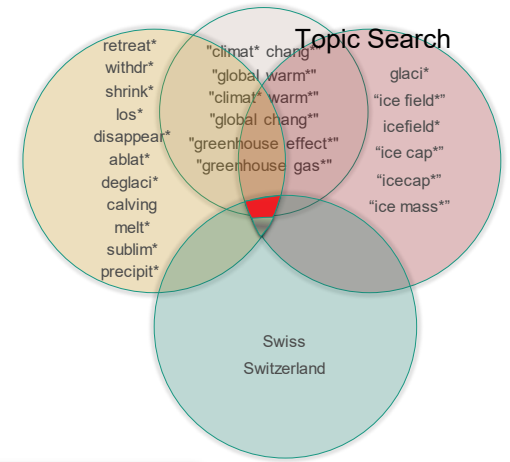
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Or, we could defer from searching for Switzerland just in the abstract

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```

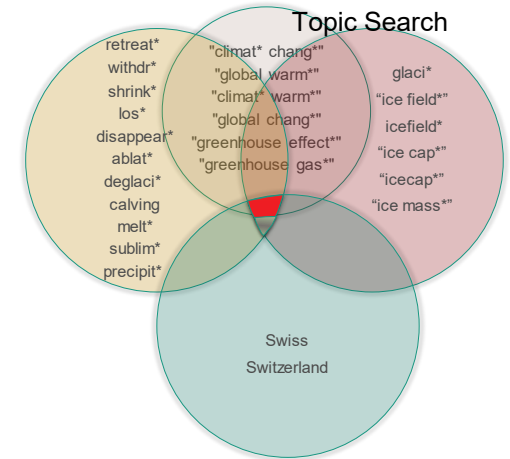
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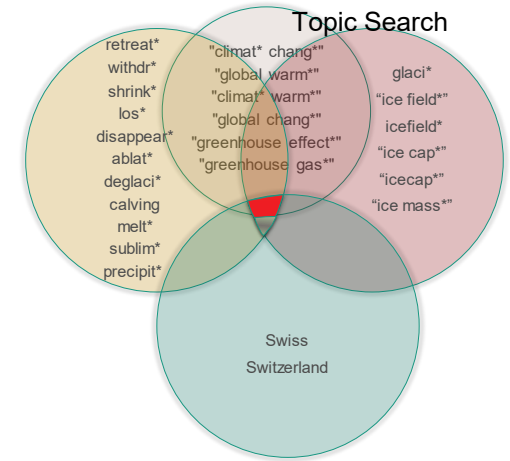
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... there are of course some missing that genuinely have Switzerland in the abstract

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
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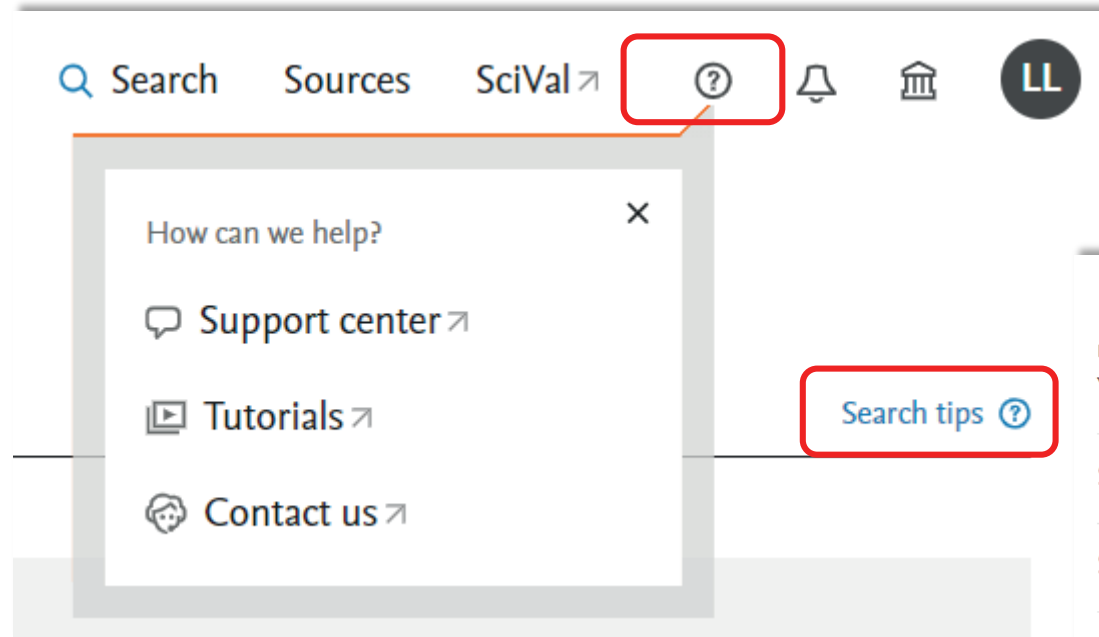
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⊖ And ▾

Topic ▾

Example: oil spill* mediterranean
 Swiss OR Switzerland

⊖ And ▾

Topic ▾

Example: oil spill* mediterranean
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- Conference title: A to Z
- Conference title: Z to A
- First author name: A to Z
- First author name: Z to A
- Publication title: A to Z
- Publication title: Z to A

1 21st century climate change in the European Alps
 Gobiet, A; Kotlarski, S; (...); Stoffel, M
 Sep 15 2014 | SCIENCE OF THE TOTAL ENVIRONMENT 493, pp. 1-10
 Reliable estimates of future climate change in the Alps are essential for assessing the risks to the European society. At the same time, the complex Alpine environment poses considerable challenges to climate models, which trans... S
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2 Glacier and lake-level variations in west-central Europe over the last 3500 years
 Holzhauser, H; Magny, M and Zumbuhl, HJ
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 On the basis of glacier and lake-level records, this paper analyzes the last 3500 years, a comparison between high-resolution palaeohydrological and palaeoglaciological data in west-central Europe over the ... Show more

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```

Booleans : AND, OR, NOT Examples

Field Tags :

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- TI=Title
- AB=Abstract
- AU=[Author]
- AI=Author Identifiers
- AK=Author Keywords
- GP=[Group Author]
- ED=Editor
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- PY=Year Published
- CF=Conference
- AD=Address
- OG=[Affiliation]
- OO=Organization
- SG=Suborganization
- SA=Street Address
- CI=City
- PS=Province/State
- CU=Country/Region
- ZP=Zip/Postal Code
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- FG=Grant Number
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- FT=Funding Text
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0/4

4

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```

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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

Author Information

Corresponding Address: Mannerfelt, Erik Schytt; Dehecq, Amaury (corresponding author)

▼ Swiss Fed Inst Technol, Lab Hydraul Hydrol & Glaciol VAW, Zurich, Switzerland

Corresponding Address: Mannerfelt, Erik Schytt; Dehecq, Amaury (corresponding author)

▼ Swiss Fed Inst Forest Snow & Landscape Res WSL, Birmensdorf, Switzerland

Corresponding Address: Dehecq, Amaury (corresponding author)

▼ 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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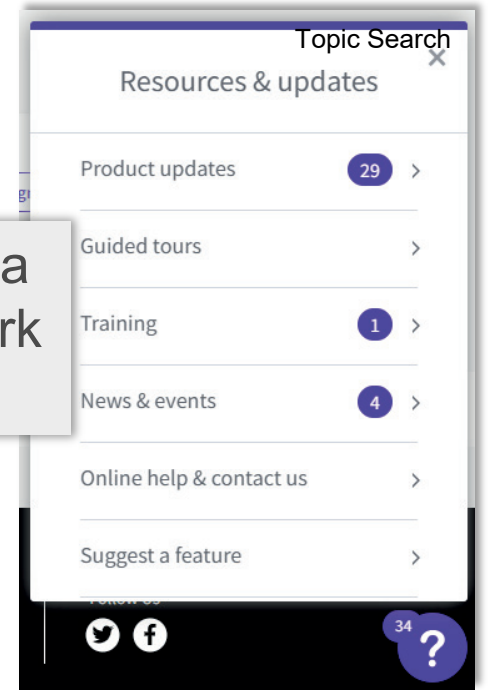
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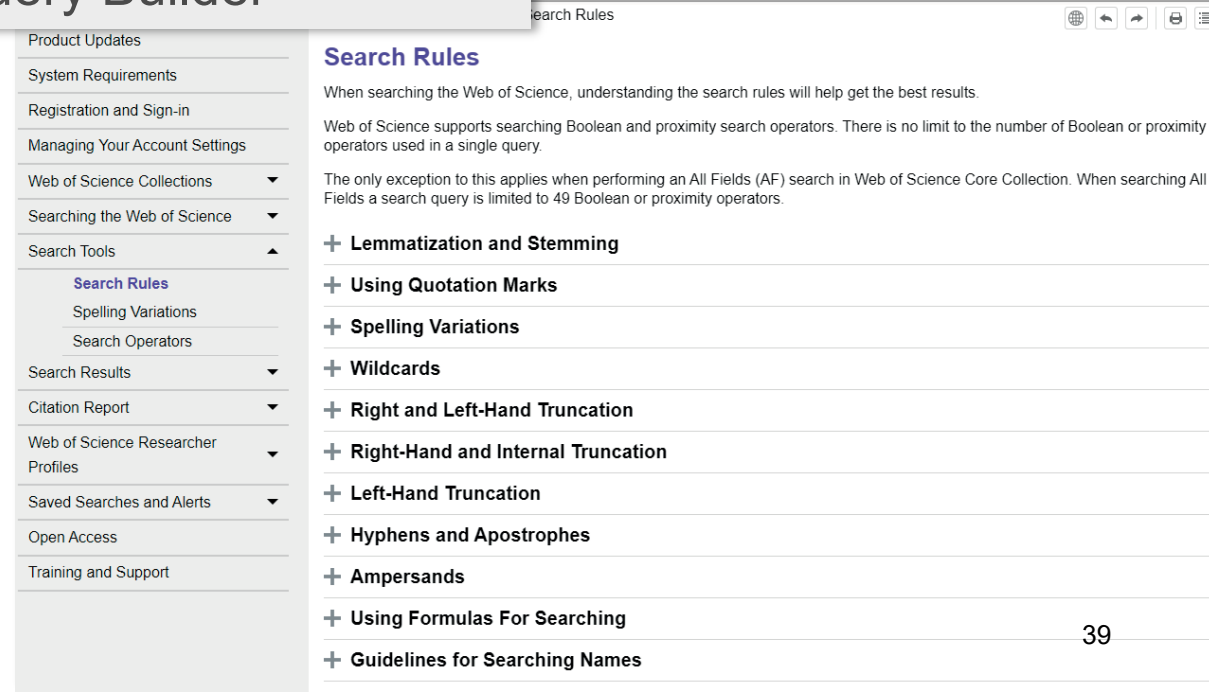


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Contents – Patents	>99 M patents (via Derwent Innovation Index)	>50.4 M patent links
Volume of data	>92 M records (WoS Core Collection)	>93.5 M records
Cited References	> 2.2 B (from 1900)	>2.4 B (from 1970)
Updates	weekly	daily
Period covered	from 1900	from 1788
Coverage	Global	global
Identification of authors and institutions	ResearcherID (authors must register) > 3 M profiles (Publon)	author ID (assigned automatically), affiliation identifier, >19.6 M profiles
Functions	alert service related records (based on shared references)	alert service related records (based on either shared references, authors or keywords)
Literature management	EndNote, BibTeX, others	Mendeley, BibTeX, RIS (Endnote)
Special features	Optional (licensed) access to: Research evaluation tools "Journal Citation Reports" & "Essential Science Indicators" and databases such as BIOSIS, Inspec, MEDLINE.	Research Assistant "Scopus AI". "Articles-in-Press" from more than 5,000 journals Medline data included. UTF-8 encoding, to display umlauts and special characters.

Search in swisscovery: lib4ri.swisscovery.slsp.ch

ADVANCED SEARCH

Search Criteria ^


Search for: Lib4RI swisscovery swisscovery without CDI Central Discovery Index (CDI)

Search filters

Anywhere ▾ contains ▾ retreat* OR withdr* OR shrink* OR los* OR dis:

AND ▾ Anywhere ▾ contains ▾ glaci* OR "ice field*" OR icefield* O

AND ▾ Anywhere ▾ contains ▾ swiss OR switzerland

+ Add a new line  Clear

Resource type

Books ▾

Language

Any language ▾


Start Date:

Day ▾ Month ▾ Start Yea

End Date:

Day ▾ Month ▾ End Year

→ Anywhere contains
retreat* OR withdr* OR shrink* OR los* OR disappear* OR ablat* OR deglaci* OR c...
AND Anywhere contains
glaci* OR "ice field*" OR icefield* OR "ice cap*" OR "icecap*" OR "ice mass*"
AND Anywhere contains swiss OR switzerland

 Search

... Search profile:
swisscovery
...Resource type:
Books

Search in swisscovery: lib4ri.swisscovery.slsp.ch

Tweak your results

Include publications without full-text

Search in full-text

Sort by Relevance ▾

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(Dübendorf)

LIB4RI PSI (Villigen) (4)

LIB4RI WSL (10)
(Birmensdorf)

swisscovery Libraries ^


Basel - Kunstmuseum / (4)
Uni Kunstgeschichte


Basel - Pädagogisches (4)
Zentrum PZ.BS


Basel - UB (8)
Hauptbibliothek

Show More

0 selected PAGE 1 **363 Results** Save query

1  **BOOK**
Climate Driven Retreat of Mount Baker Glaciers and Changing Water Resources
 Pelto, Mauri
 Cham: Springer International Publishing AG
 2015
 “ ... This natural tempering of drought conditions will be reduced as they retreat. Mount Baker, a volcano in the Cascades of Washington, is currently host to 12 principal glaciers with an area of 36.8 km2... ”
 Available Online >

2  **MULTIPLE VERSIONS**
World heritage in Switzerland
 Iten, Ernst 1945- (author); Viviani, Madeleine (editor); Schweiz Nationale Schweizerische UNESCO-Kommission (issuing body)
 13 versions found. See all versions >

3  **BOOK**
Arctic Ice Shelves and Ice Islands
 Copland, Luke ; Mueller, Derek
 Dordrecht: Springer Netherlands
 2017



... Filters
 ... export (rather limited)
 ... swisscovery account recomm.

Evaluation of the results

Too few results

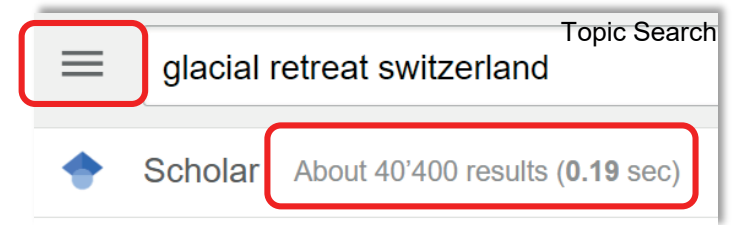
- Search for possible sources of error (Typing errors, wildcards, quotes...)
- View the relevant hits → restart the search with other synonyms
- Widen the subject, lessen the number of concepts
- Verify the search instruments

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

Other bibliometric Databases

- Web of Science (some special, some multidisciplinary)
- Central Discovery Index (multidisciplinary)
- Cabi (Biology, Medicine, Food Science)
- Pubmed (Biology, Medicine)
- Scifinder-n (Chemistry)
- Google Scholar



A few words to Google Scholar

×
Advanced search
🔍

Find articles

with **all** of the words

with the **exact phrase**

with **at least one** of the words

without the words

where my words occur

anywhere in the article

in the title of the article

Return articles **authored** by

e.g., "PJ Hayes" or McCarthy

Return articles **published** in

e.g., J Biol Chem or Nature

Return articles **dated** between —

e.g., 1996

Operators (list not comprehensive)

- +, AND** : AND operator (space works as well)
- " "** : phrase search ("climate change")
- |, OR** : OR operator
- : NOT operator
- Intext** : text search (intext:glaciers)
- intitle** : title search (intitle:glaciers)
- allintitle** : title search (allintitle:glaciers retreat swiss)
- author** : author search (glaciers author:Hormes)
- source** : Quelle ("glacial retreat" source:education)
- *** : replaces a whole word ("swiss * retreat")
- AROUND(#)** : proximity (swiss AROUND(5) glaciers)
- ()** : brackets don't exist; i.e. Boolean combinations are rather limited

A few words to Google Scholar

Pros

- 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
- Source for “grey” literature, e.g. governmental and institutional reports

Cons

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

Introduction to Lib4RI Resources and Services



- Trainings
- Events
- Info sheets & videos
- FAQ

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	German [PDF]	

Info Sheets | Search & Read

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	English [PDF]	
	German [PDF]	

Articles & Journals

	English [PDF]	
	German [PDF]	

Books

	English [PDF]	
	German [PDF]	

Info Sheets | Submit & Publish

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	EndNote	
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	Scientific Writing	
	English [PDF]	

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Thank you!

Stephanie Hofmann, Bobby Neuhold

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Überlandstrasse 133 • 8600 Dübendorf
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T +41 58 765 57 00

info@lib4ri.ch

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www.lib4ri.ch
info@lib4ri.ch
T: + 41 58 765 57 00