

2026

Searching Scientific Information

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

Stephanie Hofmann & Bobby Neuhold



Systematic literature search

A systematic literature search is a structured, comprehensive and transparent process of identifying all relevant studies dealing with a specific research question or topic without arbitrary exclusions. It is the backbone of a systematic review, providing its evidence base. Without a well-executed search, the systematic review cannot fulfil its purpose of providing an unbiased synthesis of all available evidence on a topic and possible gaps in the literature.

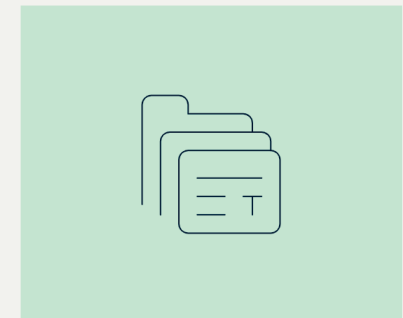
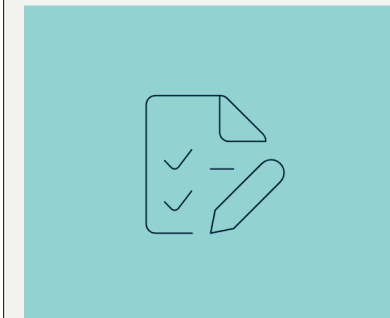
The process typically starts with the development of a research question or the definition of a topic. For this, [AI research assistants](#) are a good aid as they provide reasonable insights from simple natural language input. They often produce summaries using adequate terminology, some key references, topic experts and concept maps, all being very helpful for the subsequent development of a detailed search strategy, i.e. the choice of suitable [databases](#), the determination of underlying concepts, keywords, synonyms and related terms, and the development of search strings combining all the terms by Boolean principles.

Systematic searches generally need to be protocolled for reproducibility and transparency. They often culminate in a written document, e.g. a research proposal or the introductory section of a thesis or an original research paper, putting one's own research into the perspective of the current state-of-the-art. Depending on the ultimate goal, steps involved and levels of rigour can vary, being highest for the preparation of a dedicated systematic review article and somewhat lower for a narrative review.

Workflow



Resources & more



Topic Search

Info Sheet | Search & Read

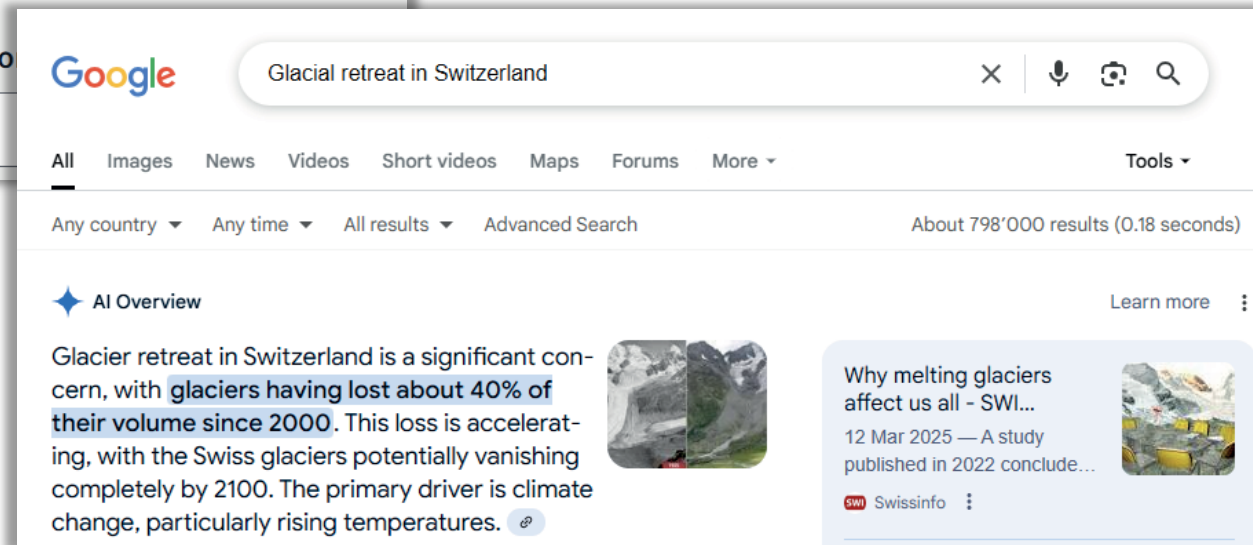
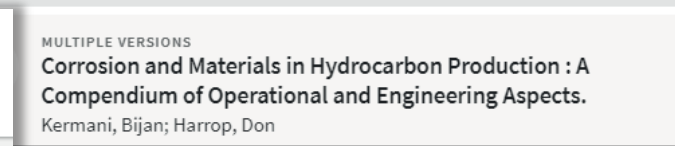
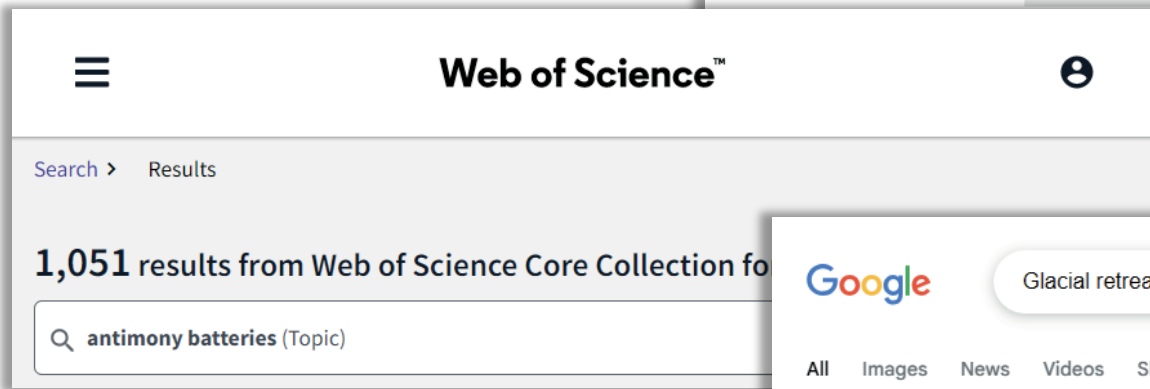
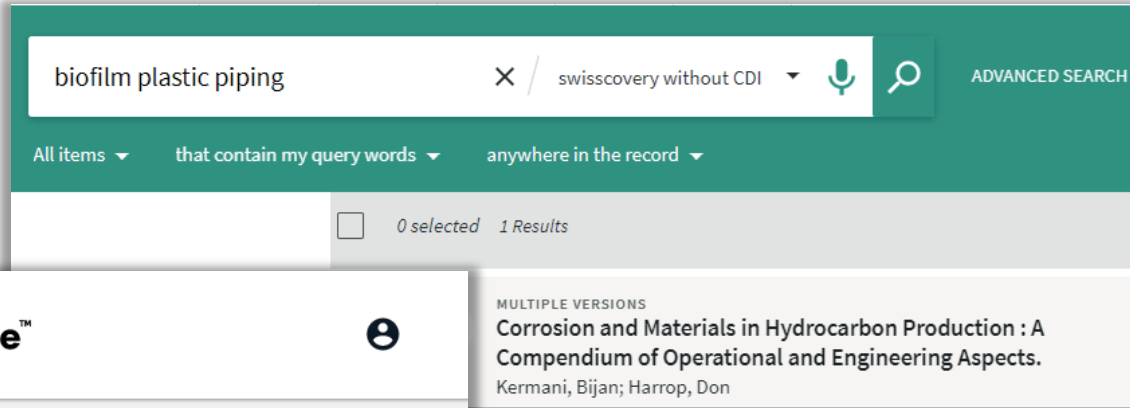
March 2023

When searching for scientific literature two scenarios are typical:

A) You are looking for a document whose bibliographic data you know or at least partially know. Here, our Lib4RI-Searchbox provides guidance to quickly find the desired document ([see Lib4RI Info Sheet Articles & Journals and Info Sheet Books](#)).

B) You would like to perform a comprehensive search on a specific topic, eg as an entry into a new research area or as the basis for writing a review article. Topic searches need time to prepare and require know-how for their implementation. After all, you have to find and combine «adequate» search terms covering your topic in order to obtain as many relevant hits as possible from the bibliographic database of your choice. Corresponding metadata, often also including the abstract, can then be exported to suitable literature management software allowing you to compile your personal subject library.

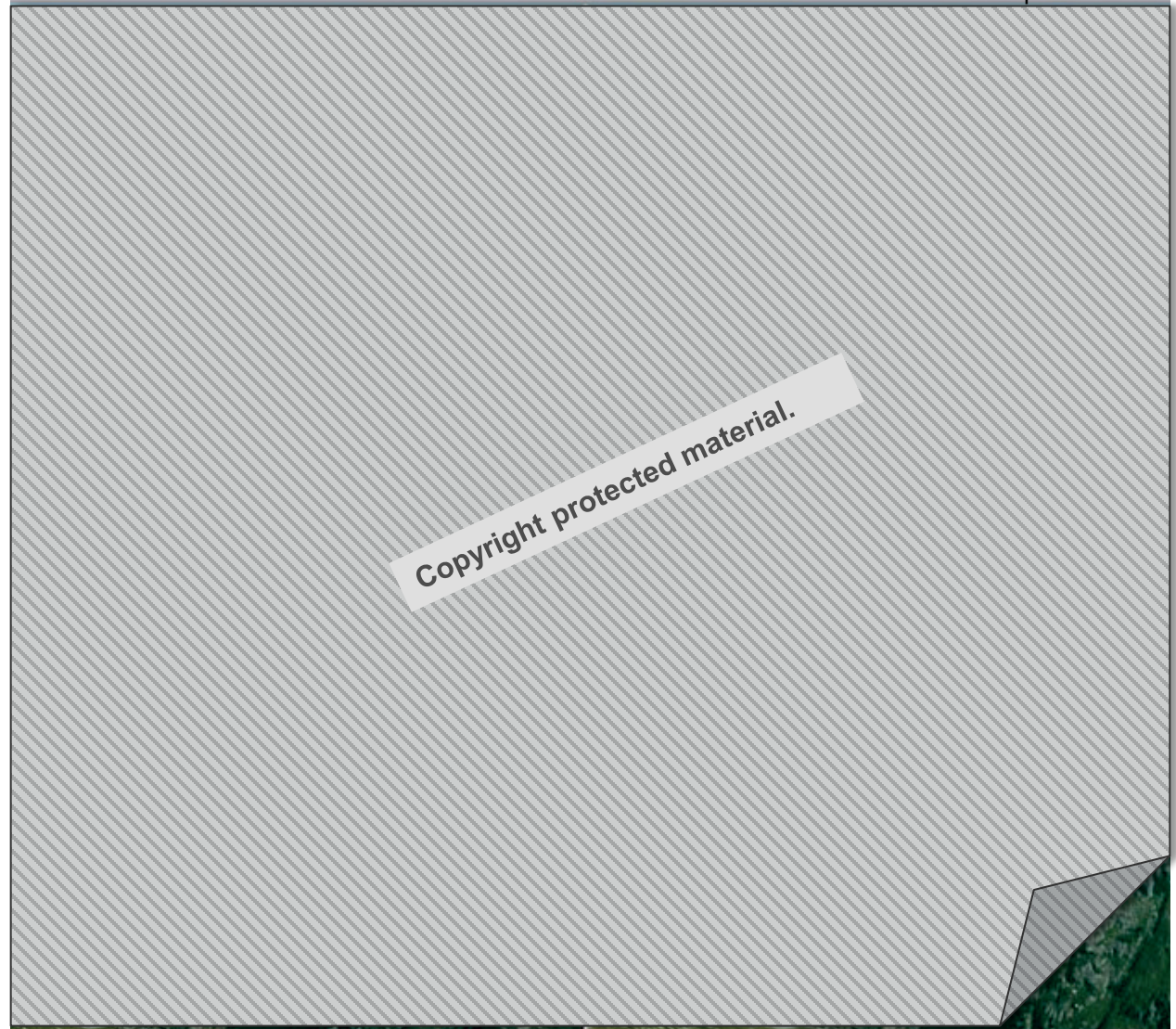
«Some search in order to find; and some find in order to end the effort of searching.» (Elazar Benyouët)



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:

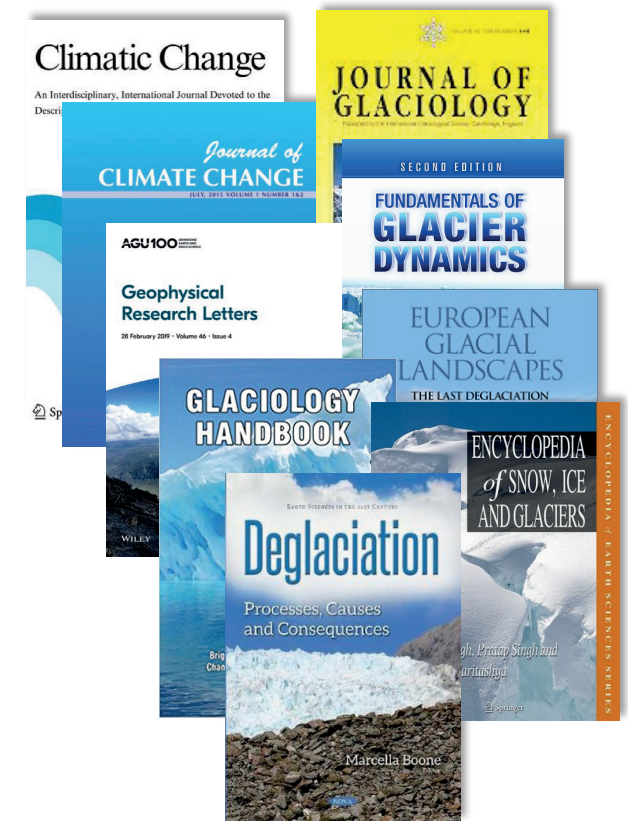
- Include synonyms, beware of homonyms
- Define super- and subordinate terms
- Check related terms
- Translate the search terms (if necessary)

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.



AI powered tools

Literature search – powered by AI

- Yes, there are numerous AI tools (10'000, 36'000, ?)
- Find the right tool:
 - [There's An AI For That](#)
 - [FutureTools](#)
 - [AiToolHunt](#)
 - ...
- ChatGPT, Claude, ... ?
 - with connections to: Consensus, Scite, SciSpace, Dimensions, ...



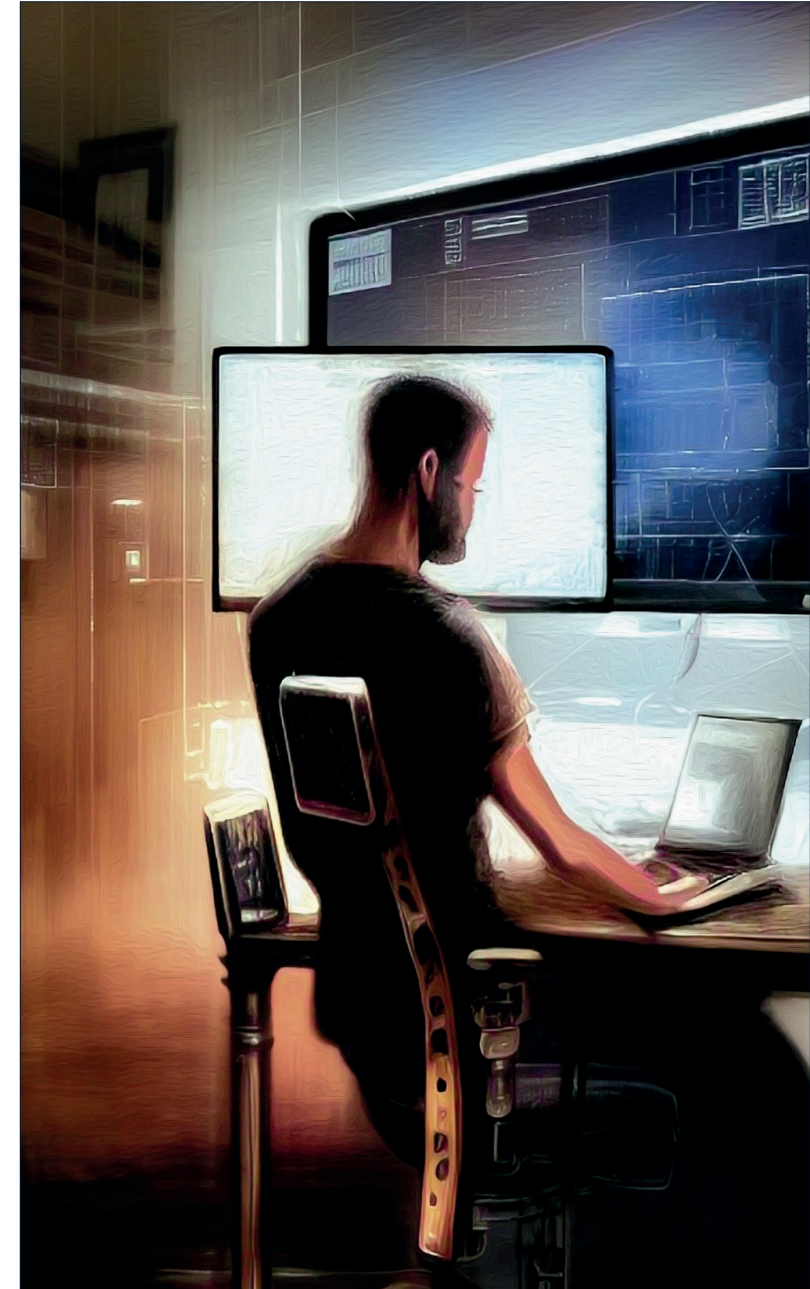
Some tips for effective prompting

- **Clarity and precision:** Clear and precise instructions prevent misunderstandings by the machine.
- **Contextual relevance:** A good prompt takes into account the context of the request.
- **Targeting:** Targeted prompts lead to targeted responses.
- **Linguistic nuance:** The way a prompt is phrased has a significant impact on the response.
- **Feedback loops:** Iterative adjustment of the prompt can help to improve results step by step.

Literature search – powered by AI

Features of AI tools

- Summaries
- Extraction of key information
- Suggestions for related publications
- Integration of AI assistants
- Automatic translation



AI tools for academic literature research can be divided into "Finders" and "Connectors"

"Finders" act as a library catalogue. You can enter a keyword, a phrase or a complete question.

- Scite ai
- Consensus
- Dimensions
- Semantic Scholar
- Elicit
- SciSpace
- ...

"Connectors" are based on a publication. Just enter part of the publication's metadata (preferably the DOI) into the tool in order to find related literature.

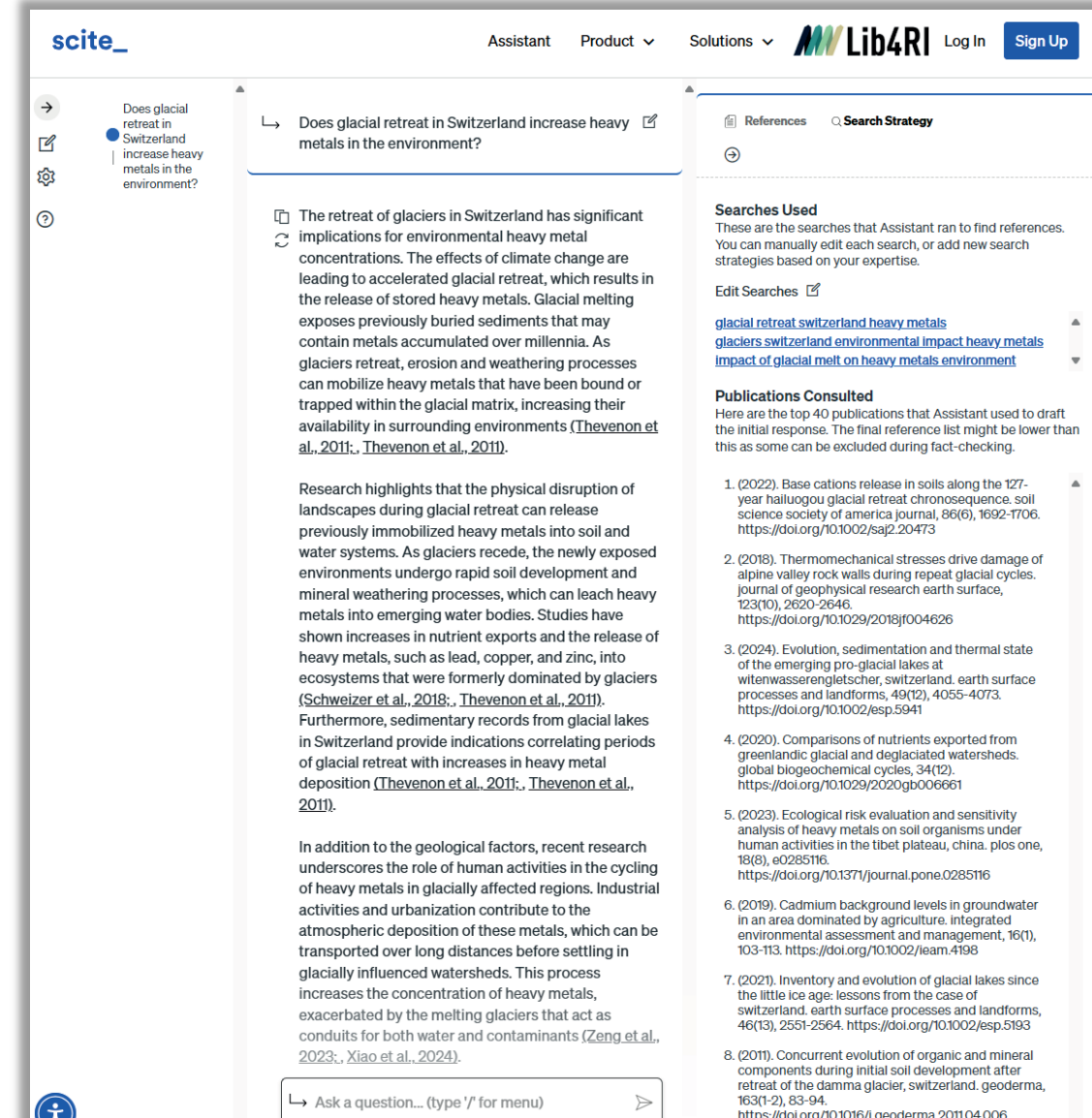
- Research Rabbit
- Open Knowledge Map
- Inciteful
- Litmap
- ...

Conclusions ... for now

- Results strongly dependent on the scientific discipline and language of the publications
 - Data basis is limited, often not transparent
 - Sources behind paywalls may be missing or not analysed
 - Often only the basic version is free of charge
 - Quality of sources is not necessarily verified and should be checked for accuracy and citation
 - Data protection / privacy / licensing
-
- **Useful entry point / additional tool !**
 - **Try it!**
 - **Be critical!**

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

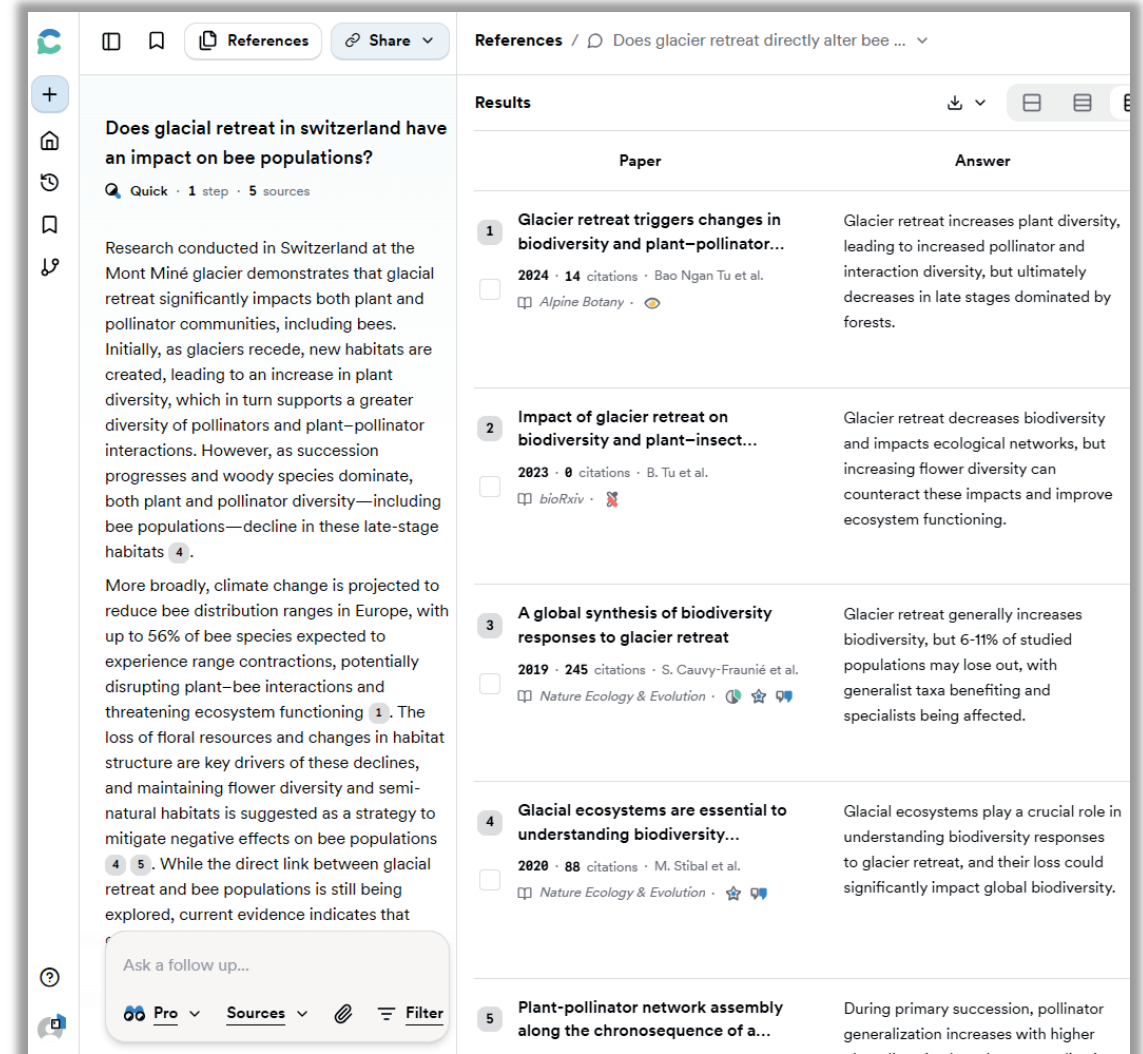


The screenshot displays the Scite AI interface. At the top, there is a navigation bar with 'scite_' on the left, and 'Assistant', 'Product', 'Solutions', 'Lib4RI', 'Log In', and 'Sign Up' on the right. The main content area is divided into three sections:

- Search Query:** 'Does glacial retreat in Switzerland increase heavy metals in the environment?' is entered in the search bar.
- Summary:** A detailed summary is provided, starting with 'The retreat of glaciers in Switzerland has significant implications for environmental heavy metal concentrations. The effects of climate change are leading to accelerated glacial retreat, which results in the release of stored heavy metals. Glacial melting exposes previously buried sediments that may contain metals accumulated over millennia. As glaciers retreat, erosion and weathering processes can mobilize heavy metals that have been bound or trapped within the glacial matrix, increasing their availability in surrounding environments (Thevenon et al., 2011; Thevenon et al., 2011). Research highlights that the physical disruption of landscapes during glacial retreat can release previously immobilized heavy metals into soil and water systems. As glaciers recede, the newly exposed environments undergo rapid soil development and mineral weathering processes, which can leach heavy metals into emerging water bodies. Studies have shown increases in nutrient exports and the release of heavy metals, such as lead, copper, and zinc, into ecosystems that were formerly dominated by glaciers (Schweizer et al., 2018; Thevenon et al., 2011). Furthermore, sedimentary records from glacial lakes in Switzerland provide indications correlating periods of glacial retreat with increases in heavy metal deposition (Thevenon et al., 2011; Thevenon et al., 2011). In addition to the geological factors, recent research underscores the role of human activities in the cycling of heavy metals in glacially affected regions. Industrial activities and urbanization contribute to the atmospheric deposition of these metals, which can be transported over long distances before settling in glacially influenced watersheds. This process increases the concentration of heavy metals, exacerbated by the melting glaciers that act as conduits for both water and contaminants (Zeng et al., 2023; Xiao et al., 2024).
- References:** A list of 8 references is shown, including:
 - (2022). Base cations release in soils along the 127-year hailuoguo glacial retreat chronosequence. *soil science society of america journal*, 86(6), 1692-1706. <https://doi.org/10.1002/saj2.20473>
 - (2018). Thermomechanical stresses drive damage of alpine valley rock walls during repeat glacial cycles. *Journal of geophysical research earth surface*, 123(10), 2620-2646. <https://doi.org/10.1029/2018j004626>
 - (2024). Evolution, sedimentation and thermal state of the emerging pro-glacial lakes at witenwasserengletscher, switzerland. *earth surface processes and landforms*, 49(12), 4055-4073. <https://doi.org/10.1002/esp.5941>
 - (2020). Comparisons of nutrients exported from greenlandic glacial and deglaciated watersheds. *global biogeochemical cycles*, 34(12). <https://doi.org/10.1029/2020gb006661>
 - (2023). Ecological risk evaluation and sensitivity analysis of heavy metals on soil organisms under human activities in the tibet plateau, china. *plos one*, 18(8), e0285116. <https://doi.org/10.1371/journal.pone.0285116>
 - (2019). Cadmium background levels in groundwater in an area dominated by agriculture. *integrated environmental assessment and management*, 16(1), 103-113. <https://doi.org/10.1002/ieam.4198>
 - (2021). Inventory and evolution of glacial lakes since the little ice age: lessons from the case of switzerland. *earth surface processes and landforms*, 46(13), 2551-2564. <https://doi.org/10.1002/esp.5193>
 - (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. <https://doi.org/10.1016/j.geoderma.2011.04.006>

Consensus - Research Assistant (consensus.app)

- get quickly acquainted with a general topic or a specific research question using natural language
- “Glacial retreat in Switzerland”
- “Does glacial retreat in Switzerland have an impact on bee populations?”
- get a literature review with references and/or “consensus meter”
- find relevant terminology and key references for a more comprehensive or systematic search, e.g. in Scopus and Web of Science

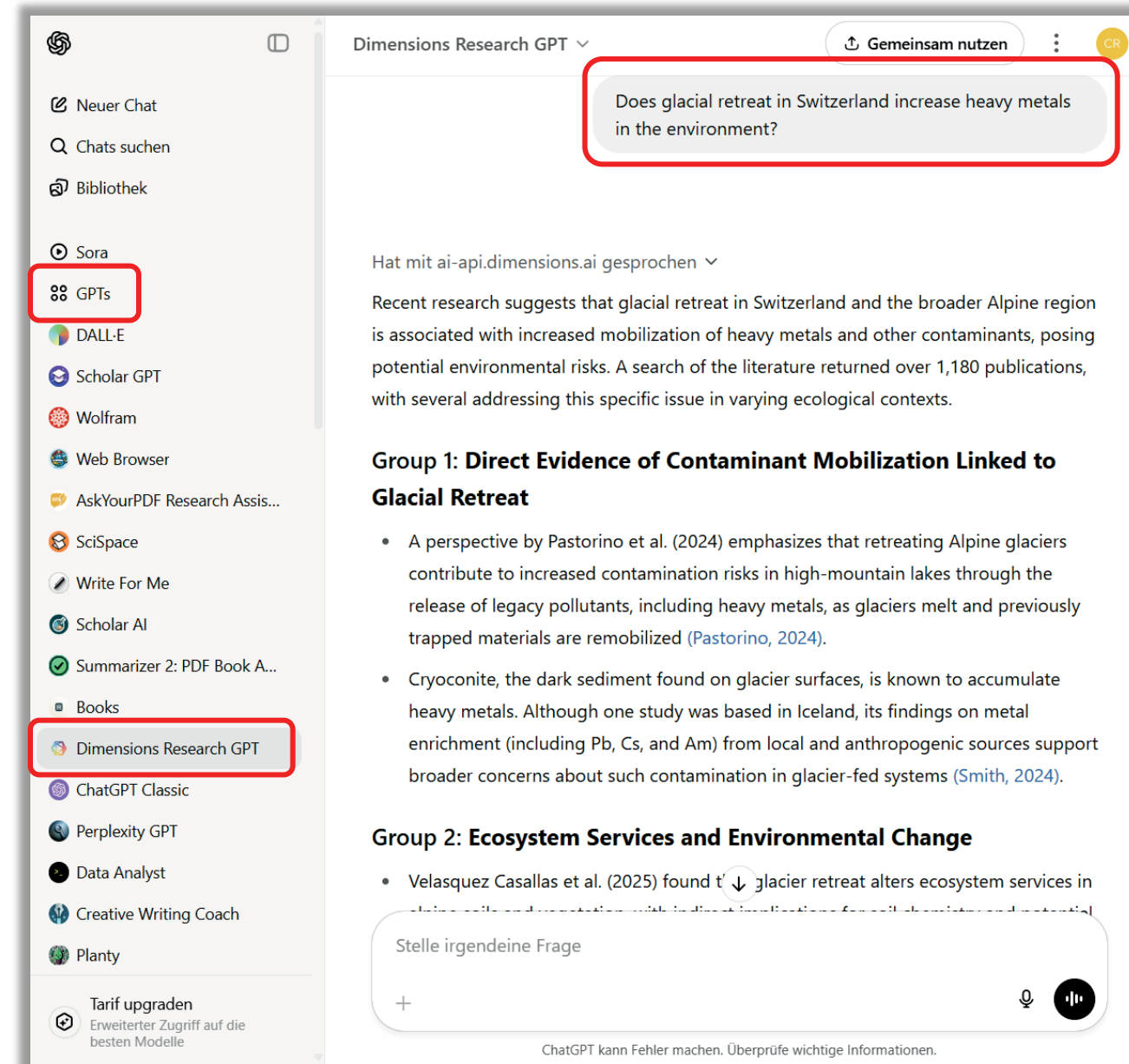


The screenshot shows the Consensus app interface. The search query is "Does glacial retreat in Switzerland have an impact on bee populations?". The app provides a summary of the research and a list of five relevant papers.

Results	Paper	Answer
1	Glacier retreat triggers changes in biodiversity and plant-pollinator... 2024 · 14 citations · Bao Ngan Tu et al. Alpine Botany	Glacier retreat increases plant diversity, leading to increased pollinator and interaction diversity, but ultimately decreases in late stages dominated by forests.
2	Impact of glacier retreat on biodiversity and plant-insect... 2023 · 0 citations · B. Tu et al. bioRxiv	Glacier retreat decreases biodiversity and impacts ecological networks, but increasing flower diversity can counteract these impacts and improve ecosystem functioning.
3	A global synthesis of biodiversity responses to glacier retreat 2019 · 245 citations · S. Cauvy-Fraunié et al. Nature Ecology & Evolution	Glacier retreat generally increases biodiversity, but 6-11% of studied populations may lose out, with generalist taxa benefiting and specialists being affected.
4	Glacial ecosystems are essential to understanding biodiversity... 2020 · 88 citations · M. Stibal et al. Nature Ecology & Evolution	Glacial ecosystems play a crucial role in understanding biodiversity responses to glacier retreat, and their loss could significantly impact global biodiversity.
5	Plant-pollinator network assembly along the chronosequence of a...	During primary succession, pollinator generalization increases with higher

Other Research Assistants

- Scopus & Web of Science, AI research assistants not included in our subscription
- Elicit, ... no licence (yet)
- Custom tuned GPTs (via old ChatGPT accounts only)
 - Dimensions Research GPT
 - Consensus
 - Scholar GPT
 - SciSpace
 - ...
- Apps (Connect ChatGPT, Claude,)
 - e.g. with Scite, Consensus



Classify your research topic into concepts

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

Concept 1	Concept 2	Concept 3
retreat	glaciers	Switzerland

Exercise 1a & 1b

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

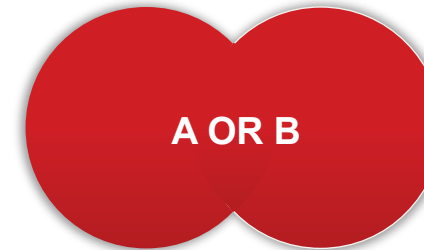
Important: WoS turns off lemmatisation and word stemming for words in quotes; Scopus, however, does NOT (unless truncation is in place)

Tip: Also works with swisscovery, Google and many more

Boolean operators (logical operators from set theory)

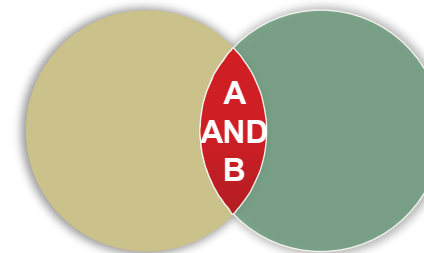
OR any one of the search terms must occur to be retrieved. Hits contain at least one of the terms.

→ Number of results increases



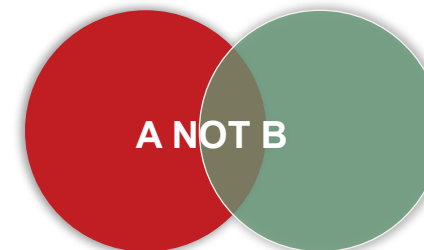
AND all search terms must occur to be retrieved. Hits contain both search terms.

→ Number of results decreases



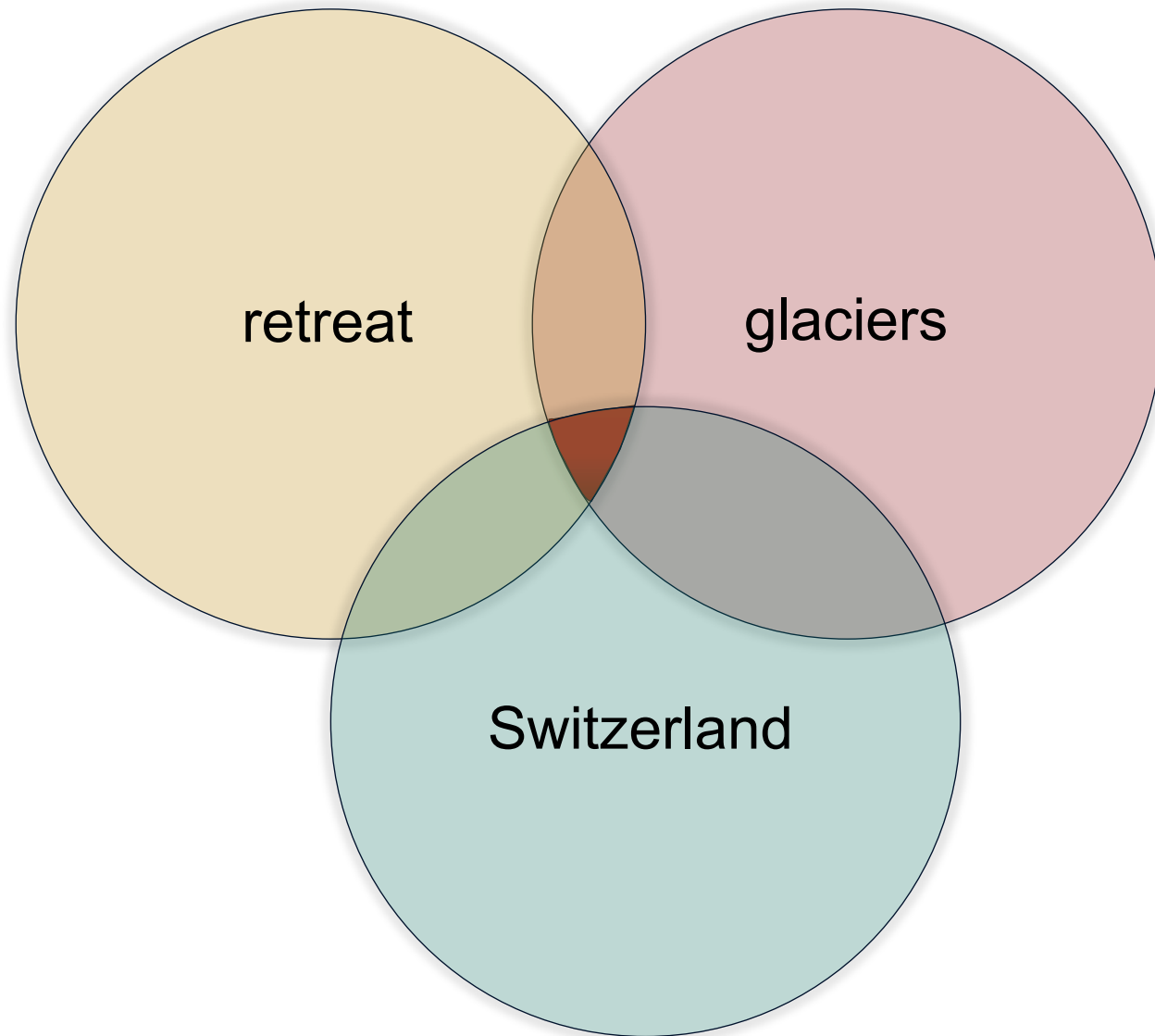
NOT excludes records that contain a given search term after the NOT-operator.

→ 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. At the top left is the Scopus logo. Below it, the text "Start exploring" is displayed. A navigation bar contains several options: "Documents" (highlighted with a red box), "Authors", "Researcher Discovery", "Organizations", "Scopus AI" (with a "New" badge), and a search icon. Below the navigation bar, there is a "Search tips" link. A search bar contains the query "retreat AND glaciers AND Switzerland" (highlighted with a red box). To the left of the search bar, a dropdown menu is open, showing "Search within" and "Article title, Abstract, Keywords" (highlighted with a red box).

The screenshot shows the search results page for 196 documents. The search query is "TITLE-ABS-KEY (retreat AND glaciers AND switzerland)". The page includes options to "Edit", "Save", and "Set alert". On the left, there is a "Refine results" sidebar with options for "Open Access", "Year", "Author name", and "Subject area". The main content area shows a list of documents. The first document is highlighted:

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

Below the table, there are links for "View abstract", "Get it Lib4RI", "View at Publisher", and "Related documents".

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*		

Exercise 1c

Combine concepts (and their synonyms)

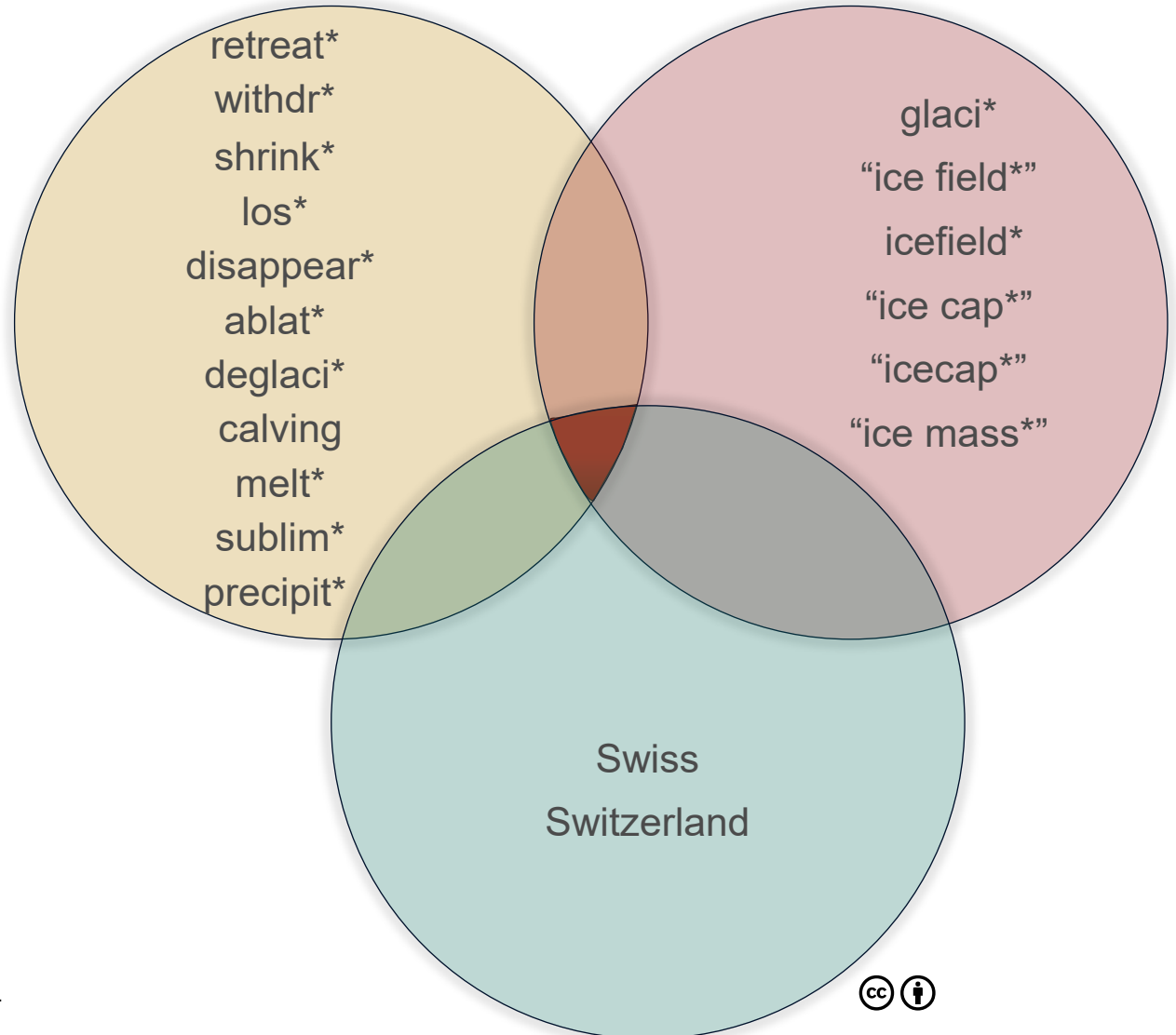
(retreat* OR withdr* OR ...)

AND

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

AND

(Switzerland OR ...)



Scopus or Web of Science?

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

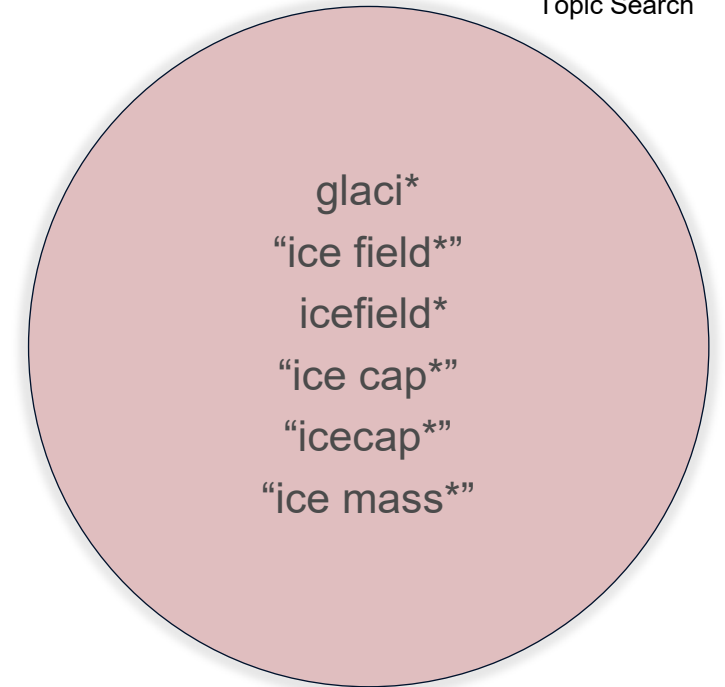
Funding sponsor

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 <input type="checkbox"/> 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 <input type="checkbox"/> 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
	<i>Open Access</i>				

Refine results

Limit to Exclude

Open Access

Year

Author name

Subject area

Publication stage

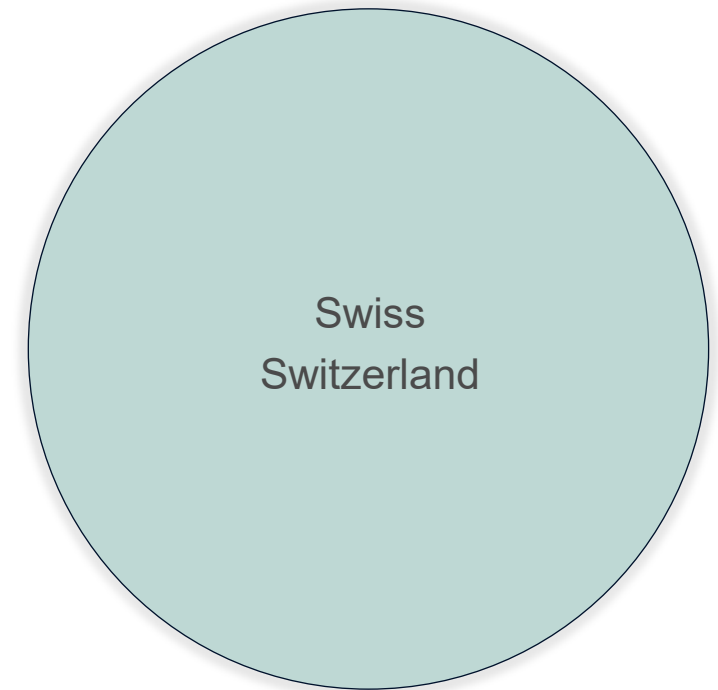
Document type

Source title

Keyword

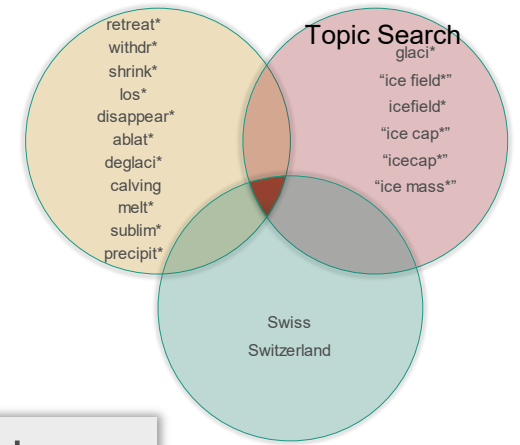
Affiliation

Funding sponsor



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

Search in Scopus: www.scopus.com



Scopus Search Sources SciVal ? ? ? ? ? LL

← Back to Homepage **Combine queries** Search tips ?

1 x AND 2 x AND 3 x

Change all operators ▾ Clear Show results >

Search History Saved Searches

Combine queries ↗

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

Show less ^

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

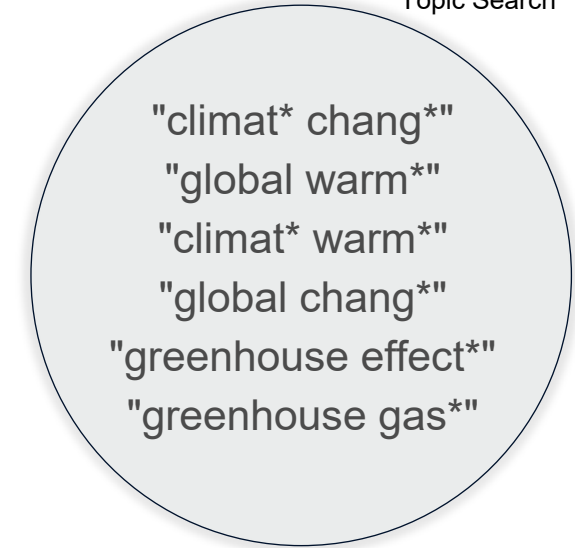
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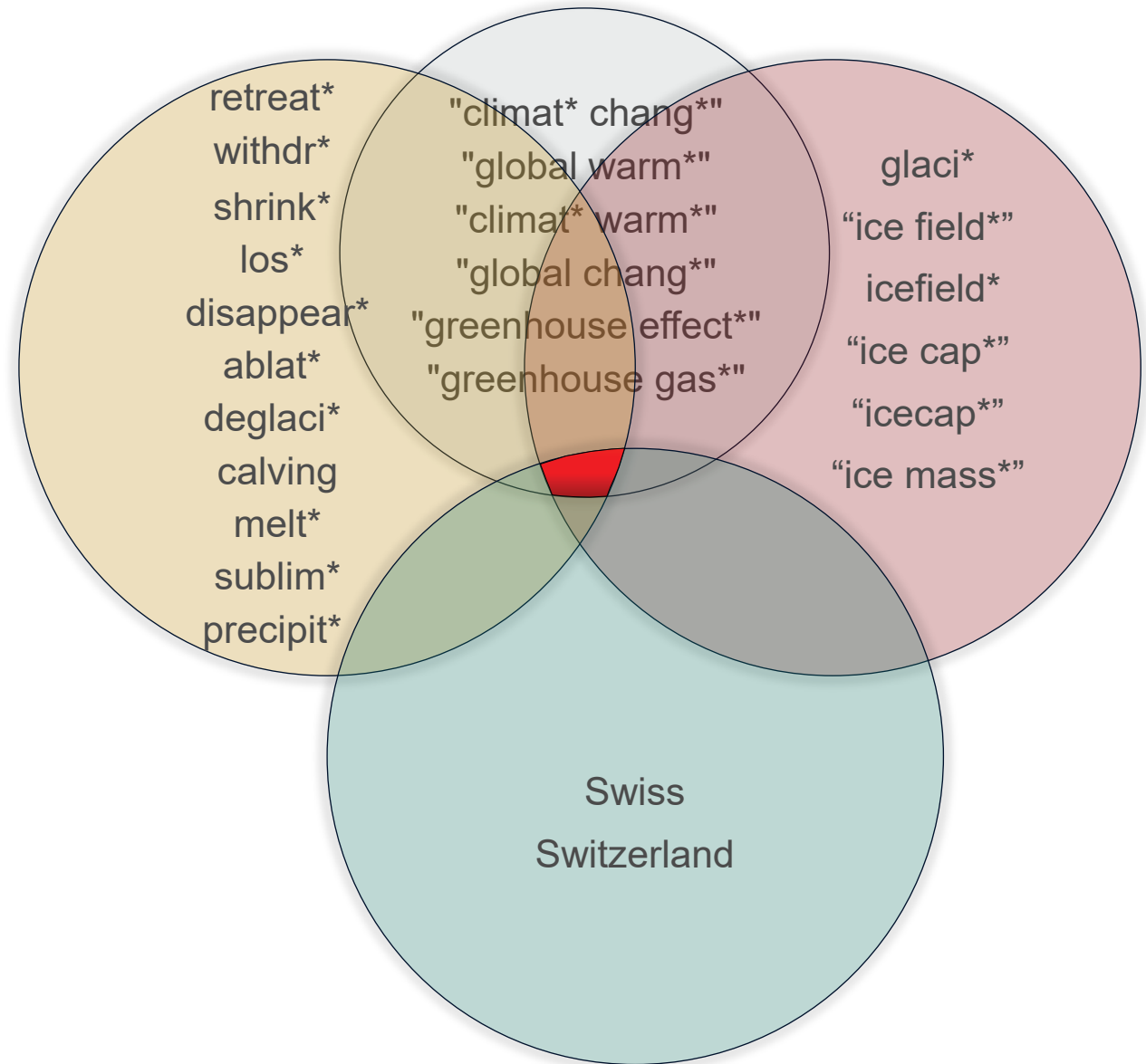
	Document title	Authors	Year	Source	Cited by
<input type="checkbox"/> 1	An overview of CMIP5 and the experiment design <i>Open Access</i>	Taylor, K.E., Stouffer, R.J., Meehl, G.A.	2012	Bulletin of the American Meteorological Society 93(4), pp. 485-498	9848
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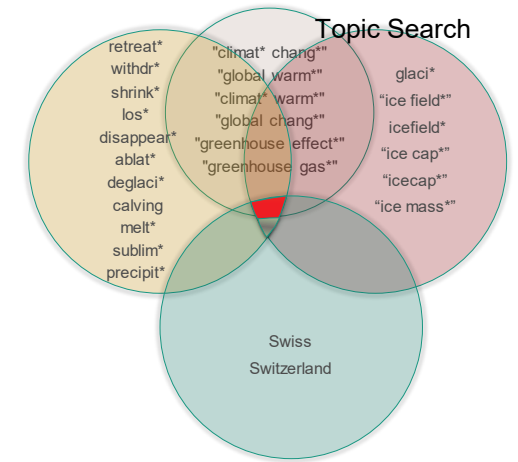
Ok.

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



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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 [Set Alert](#) [More](#)
- 4 (TITLE-ABS-KEY (retreat* OR withdr* OR shrink* OR los* OR disappear* OR ablat* OR deglaci* OR calving OR melt* ... 1,044 results [Set 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](#)

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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Ok. This is something to work on.

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Year [v](#)

Author name [v](#)

Subject area [v](#)

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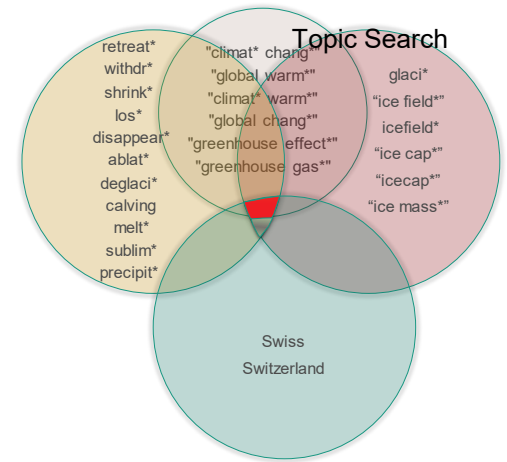
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	Document title	Authors	Year	Source	Cited by
<input type="checkbox"/> 1	The Alps with little ice: Evidence for eight holocene phases of reduced glacier extent in the Central Swiss Alps	Hormes, A., Müller, B.U., Schlüchter, C.	2001	Holocene 11(3), pp. 255-265	189

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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^c ✉ ;
 Jungblut, Swetlana^a ✉

Let's see about relevance

Oops. This one is not about Swiss glaciers.

The publisher's copyright info in the abstract includes Switzerland

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

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Edit Save Set alert

Search within results...

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Open Access

Year

Author name

Subject area

Publication stage

Document type

Source title

Keyword

Switzerland (174)

Climate Change (124)

Alps (72)

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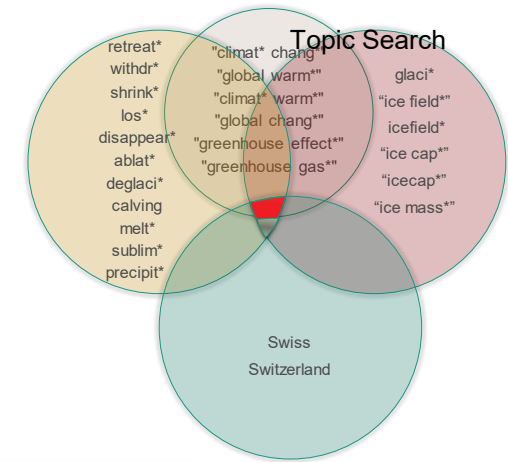
1 The Alps with little ice: Evidence for eight holocene phases of reduced glacier extent in the Central Swiss Alps Hormes, A., Müller, B.U., Schlüchter, C. 2001 Holocene 11(3), pp. 255-265 189

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2 Quantification of biotic responses to rapid climatic changes around the Younger Dryas - A synthesis Ammann, B., Birks, H.J.B., Brooks, S.J., (...), Tobolski, K., Wick, L. 2000 Palaeogeography, Palaeoclimatology, Palaeoecology 159(3-4), pp. 313-347 187

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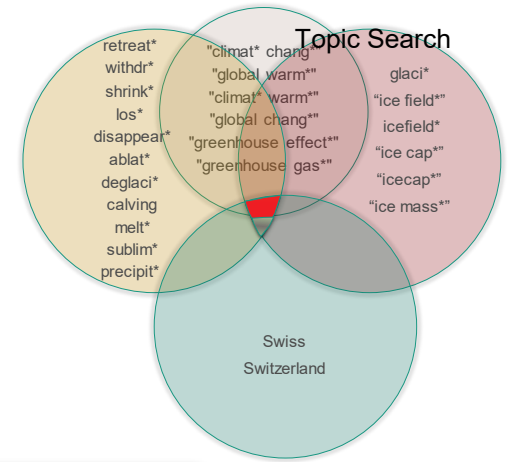
3 Oxygen isotopes of lake marl at Gerzensee and Leysin (Switzerland), covering the Younger Dryas and two minor oscillations, and their correlation to the GRIP ice core Schwander, J., Eicher, U., Ammann, B. 2000 Palaeogeography, Palaeoclimatology, Palaeoecology 159(3-4), pp. 203-214 142



So, we could limit the search to the keyword Switzerland

... but this would likely miss quite a few

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Search tips ?

Enter query string

```
(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*"))
```

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

< Basic Search Advanced

Search tips ?

Enter query string

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

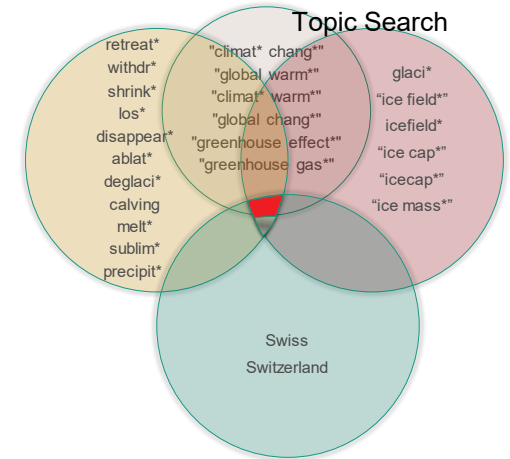
... and search individually the TITLE, KEY and ABS fields but leave out Switzerland for the ABS search

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236 document results

TITLE-ABS-KEY (retreat* OR withdr* OR shrink* OR los* OR disappear* OR ablat* OR deplaci* 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*" OR "ice mass*" AND (TITLE (switzerland OR swiss) OR KEY (switzerland OR swiss) OR ABS (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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Refine results

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Open Access

Year

Author name

Subject area

Publication stage

Document type

Source title

Keyword

Switzerland (174)

Climate Change (160)

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... 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

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Author name

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Publication stage

Document type

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<input type="checkbox"/> 2	Quantification of biotic responses to rapid climatic changes around the Younger Dryas - A synthesis	Ammann, B., Birks, H.J.B., Brooks, S.J., (...), Tobolski, K., Wick, L.	2000	Palaeogeography, Palaeoclimatology, Palaeoecology	159(3-4), pp. 313-347
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<input type="checkbox"/> 3	Assessment of climate-change impacts on alpine discharge regimes with climate model uncertainty	Horton, P., Schaeffli, B., Mezghani, A., Hingray, B., Musy, A.	2006	Hydrological Processes	20(10), pp. 2091-2109
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<input type="checkbox"/> 4	Modeling glacier thickness distribution and bed topography over entire mountain ranges with ablation	Linsbauer, A., Paul, F., Haeblerli, W.	2012	Journal of Geophysical Research: Earth Surface	117(2), 502-517

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

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42

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"hormes, a." 6506354596

Email address(es) *
info@lib4ri.ch

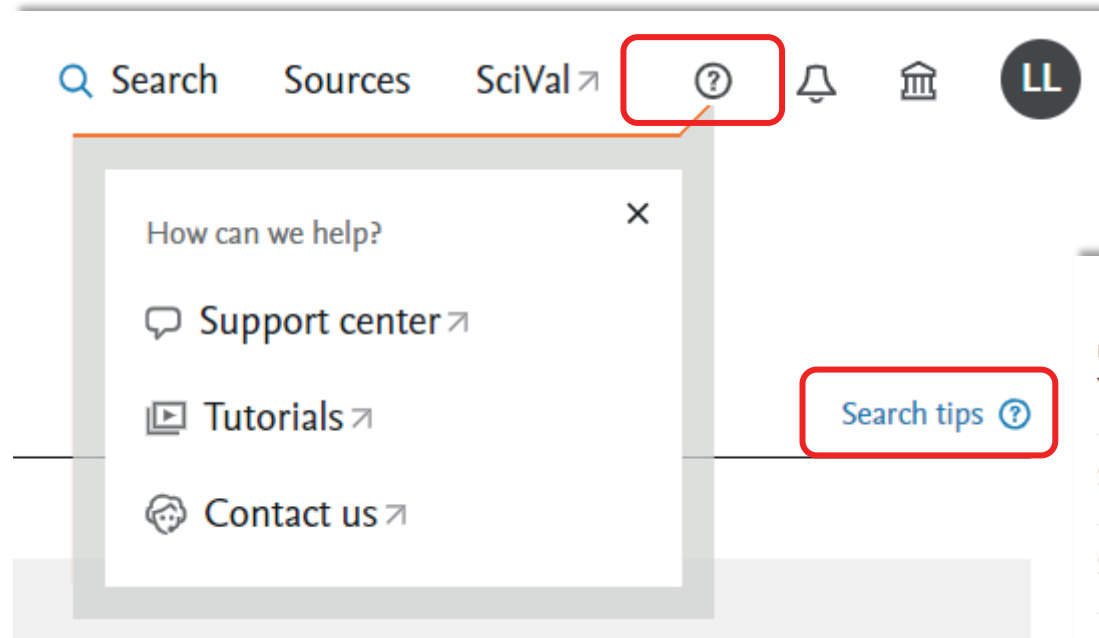
E.g., j.smith@mail.com, p.smith@mail.com
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Frequency
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Status
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⊖ And ▾

Topic ▾

Example: oil spill* mediterranean
 glaci* OR "ice field*" OR icefield* OR "ice cap*" OR "icecap*" OR "i

⊖ And ▾

Topic ▾

Example: oil spill* mediterranean
 Swiss OR Switzerland

⊖ And ▾

Topic ▾

Example: oil spill* mediterranean
 "climat* chang*" OR "global warm*" OR "climat* warm*" OR "glob

+ Add row
+ Add date range

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369 results from Web of Science Core Collection for:

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Publication Years

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1 of 8

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- Citations: lowest first
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- Usage (last 180 days): most first
- 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
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 Nov 2005 | HOLOCENE 15 (6), pp.789-801
 On the basis of glacier and lake-level records, this paper at the same time, a comparison between high-resolution palaeohydrological and palaeoglaciological data in west-central Europe over the ... Show more

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+ Add date range Clear Search

Booleans : AND, OR, NOT Examples

Field Tags :

- TS=Topic
- TI=Title
- AB=Abstract
- AU=[Author]
- AI=Author Identifiers
- AK=Author Keywords
- GP=[Group Author]
- ED=Editor
- KP=Keyword Plus®
- SO=[Publication Titles]
- DO=DOI
- 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
- FO=Funding Agency
- FG=Grant Number
- FD=Funding Details
- FT=Funding Text
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- WC=Web of Science Categories
- IS= ISSN/ISBN
- UT=Accession Number
- PMID=PubMed ID
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- PUBL=Publisher
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- FPY=Final publication year

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Build a new query based on your searches in this session.

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4 (TS=(retreat* OR withdr* OR shrink* OR los* OR disappear* OR ablat* OR deglaci* OR calving OR melt* OR sublim* OR precipit*)) AND (TS=(glaci* OR "ice field*" OR icefield* OR "ice cap*" OR icecap* OR "ice mass*")) AND (TS=(switzerland OR swiss)) AND (TS=("climat* chang*" OR "global warm*" OR "climat* warm*" OR "global chang*" OR "greenhouse effect*" OR "greenhouse gas*")) 369 Add to query

... WoS also has an advanced search builder

... and a search history

www.webofscience.com

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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Volume: 16 Issue: 8 Page: 3249-3268

DOI: 10.5194/tc-16-3249-2022

Published: AUG 22 2022

Indexed: 2022-08-29

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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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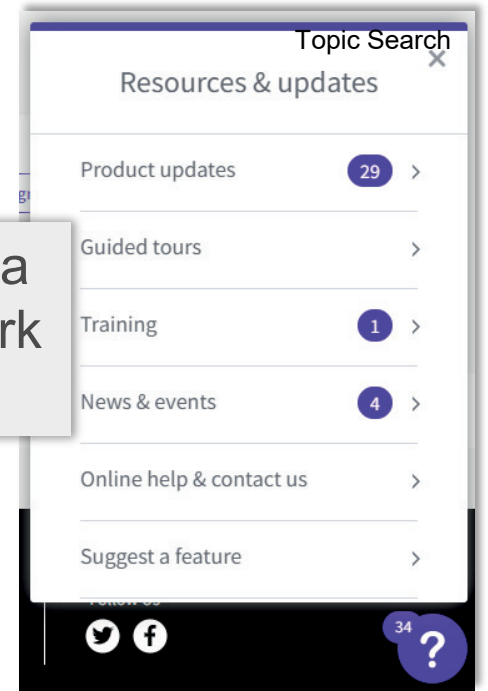
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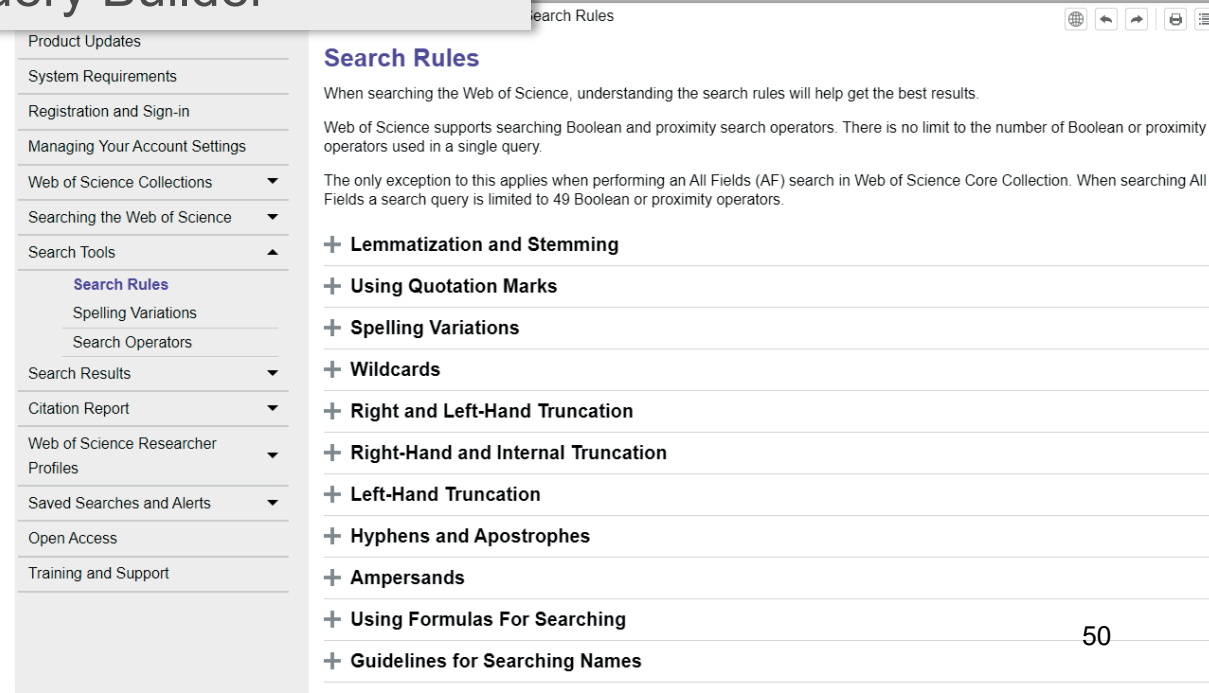


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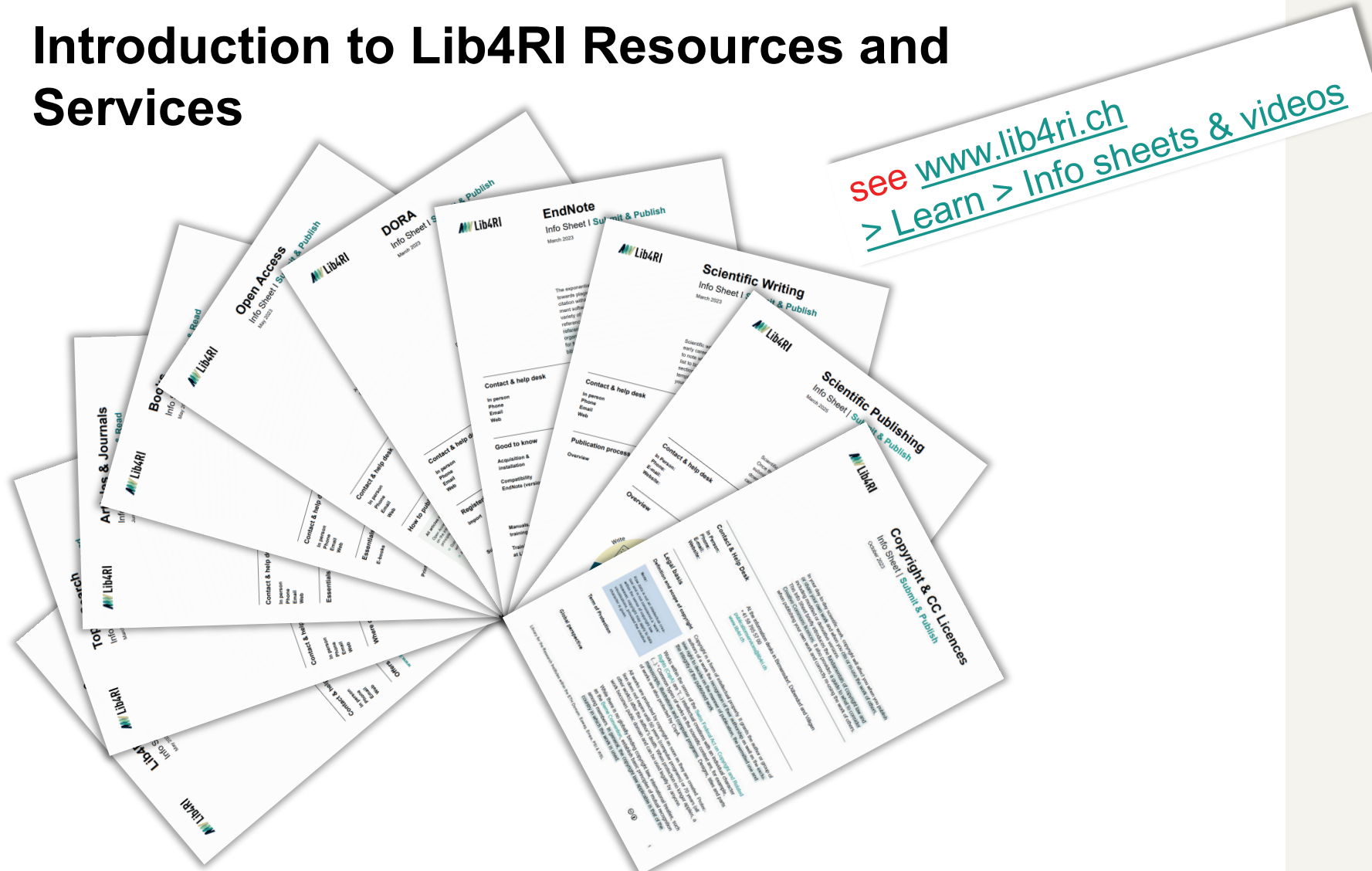
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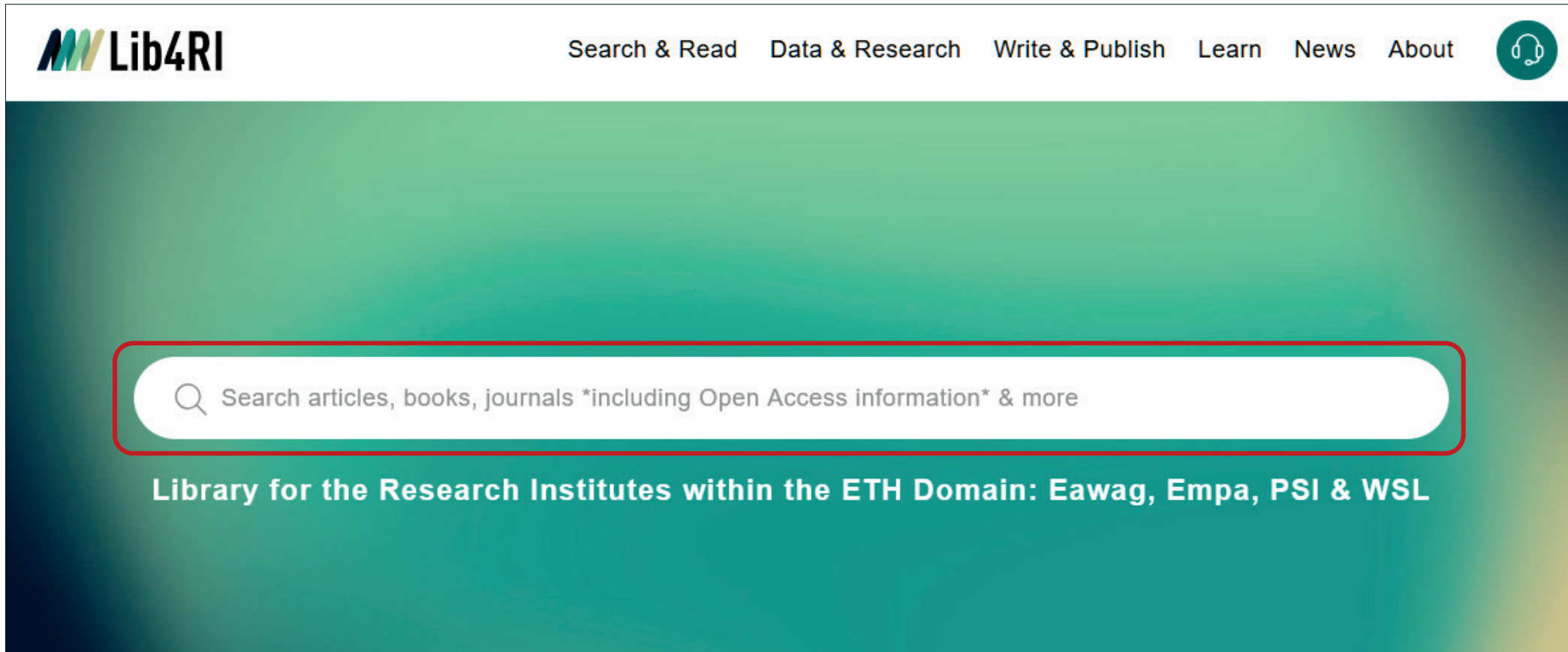
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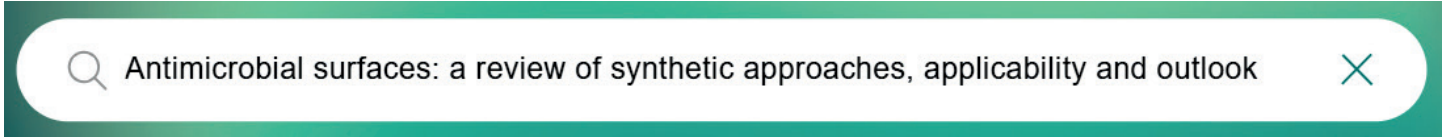
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Volume: 56 Issue: 32 Page: 17915-17941
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Abstract

The rapid spread of microorganisms such as bacteria, fungi, and viruses can be extremely detrimental and can lead to seasonal epidemics or even pandemic situations. In addition, these microorganisms may bring about fouling of food and essential materials resulting in substantial economic losses. Typically, the microorganisms get transmitted by their attachment and growth on various household and high contact surfaces such as doors, switches, currency. To prevent the rapid spread of microorganisms, it is essential to understand the interaction between various microbes and surfaces which result in their attachment and growth. Such understanding is crucial in the development of antimicrobial surfaces. This review concentrates on physical and chemical modification of the surfaces to modulate wettability, surface topography, and surface charge to inhibit microbial adhesion, growth, and proliferation. Based on these aspects, antimicrobial surfaces are classified into patterned surfaces, functionalized surfaces, superwettable surfaces, and smart surfaces. We have critically discussed the important findings from systems of developing antimicrobial surfaces along with the limitations of the current research and the gap that needs to be bridged before these approaches are put into practice.

Keywords

Keywords Plus: SMART ANTIBACTERIAL SURFACES; BACTERICIDAL ACTIVITY; POLYETHYLENE-GLYCOL; MEMBRANE; RELEASE; CONTAMINATION; MECHANISM; ADHESION; ANTIFUNGAL; PARTICLES

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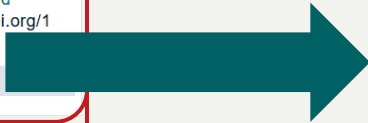
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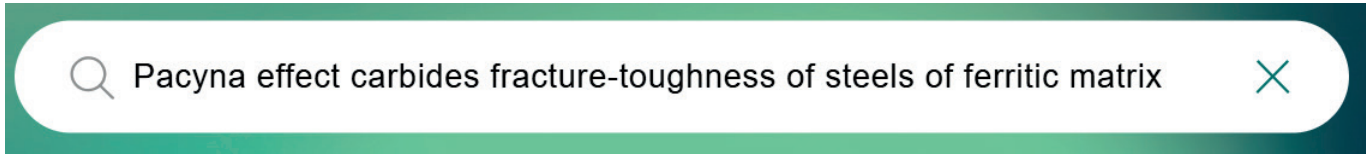
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 - Peer-reviewed
 - Journal Impact Factor: 48.5 (details at JCR)
- Publications in DORA:
 - PSI: 266 articles, WSL: 74 articles, Eawag: 48 articles, Empa: 28 articles

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Searching journals – useful websites

[5] L. Simonot, G. Maire, A comparative study of LaCoO₃, Co₃O₄ and LaCoO₃—Co₃O₄: I. Preparation, characterisation and catalytic properties for the oxidation of CO, Appl. Catal. B: Environ. 11 (2) (1997) 167–179.

CAS Source Index (CASSI) Search Result

Displaying Record for Publication: [Applied Catalysis, B: Environmental](#)

Entry Type	Active Serial
Title	Applied Catalysis, B: Environmental
Abbreviated Title	Appl. Catal., B
CODEN	ACBEE3
ISSN	0926-3373
Former Title Note(s)	Supersedes in part
Former Title(s)	Applied Catalysis
Language of Text	English
Summaries In	English
History	v1 n1 Feb. 1992+
Publication Notes	Avail. from Internet at URL: https://www.sciencedirect.com/journal/applied-catalysis-b-environmental
Publisher Name	Elsevier B.V.

Web of Science

Journal Title Abbreviations

This list shows the abbreviations used for journal titles as cited works. Copy the *abbreviated* (boldface) title from the Use the cited work index to find additional abbreviations for journals, along with books and other publications. This is Click on a letter to move through the journal list alphabetically.

0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Journal List

APPLIED CATALYSIS
APPL CATAL
 APPLIED CATALYSIS A-GENERAL
APPL CATAL A-GEN
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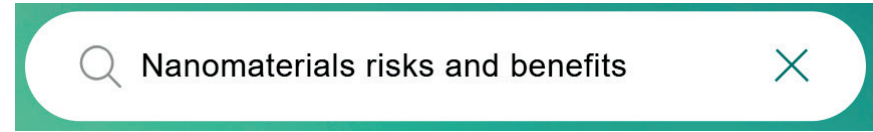
Journal Directories

Journal Title Abbreviations

- CAS Source Index (CASSI)
Abbreviations for journals in the chemical and biological sciences.
- List of Title Word Abbreviations
Most journal abbreviations are based on a word list from the ISSN's «List of Title Word Abbreviations». Use this list to build an abbreviation word by word. If the journal title has only one word, the title should not be abbreviated (e.g. Nature, Cell).
- WoS Journal Title Abbreviations
Full name and abbreviation of journals in the «Web of Science».
- WSL List of Journal Abbreviations (WSL intranet only)
Abbreviations for journal titles according to ISO standard; maintained by the Editorial Office at WSL.

Journal Alerting Services

Searching e-books



Books

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- Linkov I, Steevens J. *Nanomaterials : risks and benefits*. Springer; 2009.
- Sonia Soloneski ML, Soloneski S. *Nanomaterials - toxicity and risk assessment*. IntechOpen; 2015.
- Guo L-H, Mortimer M. *Advances in toxicology and risk assessment of nanomaterials and emerging contaminants*. Springer; 2022.
- Risk Assessment of Nanomaterials Toxicity*. MDPI - Multidisciplinary Digital Publishing Institute; 2023.
- Important Issues on Risk Assessment of Manufactured Nanomaterials*. OECD Publishing; 2022.

See all 73 results

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Other book resources

- WorldCat ⓘ
- Karlsruher Virtueller Katalog (KVK, German databases) ⓘ
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0 selected Page 1 1-10 of 73 results

1 **BOOK** *Nanomaterials : risks and benefits*
 NATO Advanced Research Workshop on *Nanomaterials: Environmental Risks and Benefits* (2008 : Faro, Portugal)
 Dordrecht, The Netherlands : Springer, 1st ed. 2009.; [2009]; 2009
 Available Online >

2 **BOOK** *Nanomaterials - toxicity and risk assessment*
 Sonia Soloneski (author)
 IntechOpen. - [Place of publication not identified] : IntechOpen, [2015]; ©2015

BOOK

Nanomaterials : risks and benefits

NATO Advanced Research Workshop on *Nanomaterials: Environmental Risks and Benefits* (2008 : Faro, Portugal)
 Dordrecht, The Netherlands : Springer, 1st ed. 2009.; [2009]; 2009

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
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Searching book chapters

Books

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- Mazumdar A. *Systems biogeochemistry of major marine biomes*. Wiley; 2022.
- Weathers KC et al. *Fundamentals of ecosystem science*. Academic Press; 2021.

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1

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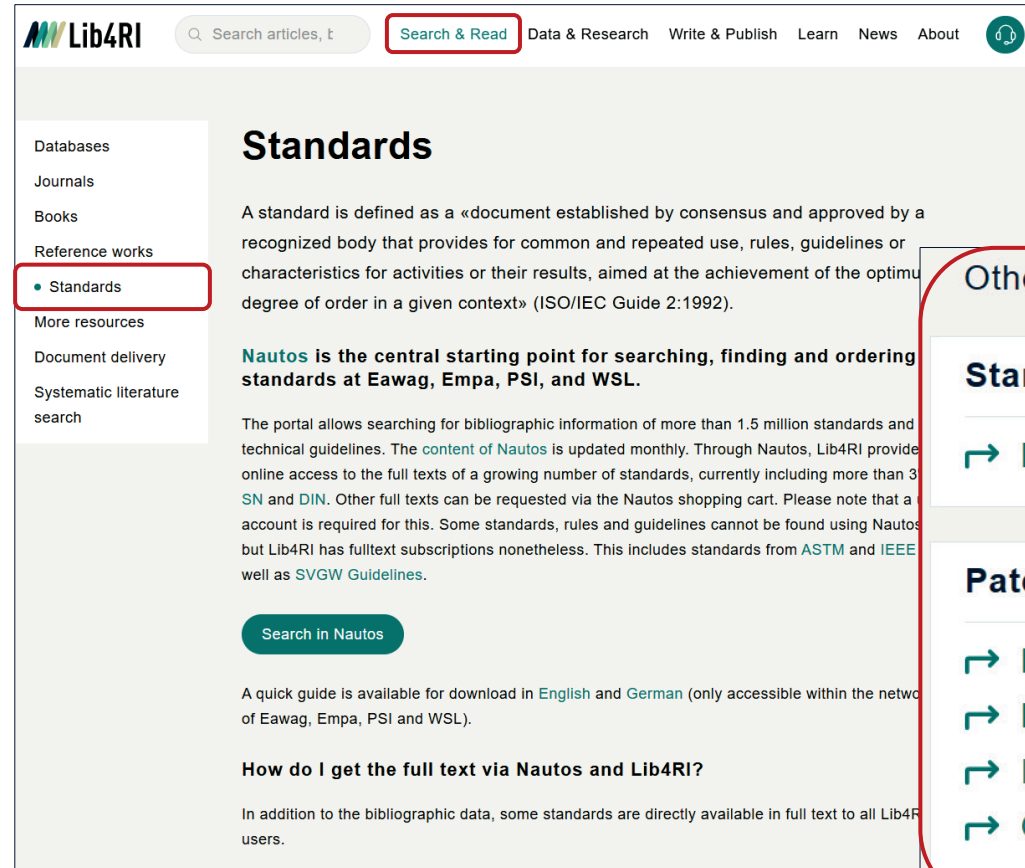
Title	Systems biogeochemistry of major <u>marine</u> biomes
Attribution	edited by Aninda Mazumdar.
Publication	Hoboken, New Jersey : : Wiley,
Edition, date	[2022] ©2022
Format	1 online resource (333 pages)
Language	English
Notes	Includes bibliographical references and index.
Contains	Cover Title Page Copyright Page Contents... Show All
Subject	Biogeochemistry > Chemical oceanography >
Classifications	577.14 (Dewey)
Identifier	ISBN : 1-119-55435-7 ISBN : 1-119-55437-3
Contributor	Mazumdar, Aninda >

Searching standards & guidelines

A standard is defined as a «document established by consensus and approved by a recognized body that provides for common and repeated use, rules, guidelines or characteristics for activities or their results, aimed at the achievement of the optimum degree of order in a given context» (ISO/IEC Guide 2:1992).

There are international, European and national standards. Contents identical, difference: language, preface and appendices

Nautos is the central starting point for searching, finding and ordering standards at Eawag, Empa, PSI, and WSL.



The screenshot shows the Lib4RI website interface. The top navigation bar includes a search bar, a 'Search & Read' button (highlighted with a red box), and links for 'Data & Research', 'Write & Publish', 'Learn', 'News', and 'About'. A left sidebar menu lists categories: 'Databases', 'Journals', 'Books', 'Reference works', 'Standards' (highlighted with a red box), 'More resources', 'Document delivery', and 'Systematic literature search'. The main content area is titled 'Standards' and contains a definition of a standard, a section for 'Nautos' (described as the central starting point for searching, finding and ordering standards at Eawag, Empa, PSI, and WSL), a 'Search in Nautos' button, and a section for 'How do I get the full text via Nautos and Lib4RI?'. A right sidebar titled 'Other media' lists links for 'Standards', 'Nautos', 'Patents', 'Derwent', 'Espacenet', 'IPscreener', and 'Google Patents', each with an information icon.

Searching standards & guidelines

Version 2.1.1
 Metadata status 2025-05

Lib4RI User
 [Lib4RI_User / ReadOnly]

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4 records found

Select all Hits per page: 25

	Document	Document number	Publication date	Status	Title	Update flag	Current	ICS
>		DIN EN ISO 18265	2014-02-00	ST, N	Metallic materials - Conversion of...	U		77.040.10
>		DIN EN ISO 18265	2011-03-00	DC, N-E	Metallic materials - Conversion of...	H		77.040.10
>		DIN EN ISO 18265	2004-02-00	ST, N	Metallic materials - Conversion of...	H		77.040.10
>		DIN EN ISO 18265	2002-08-00	DC, N-E	Metallic materials - Conversion of...	H		77.040.10

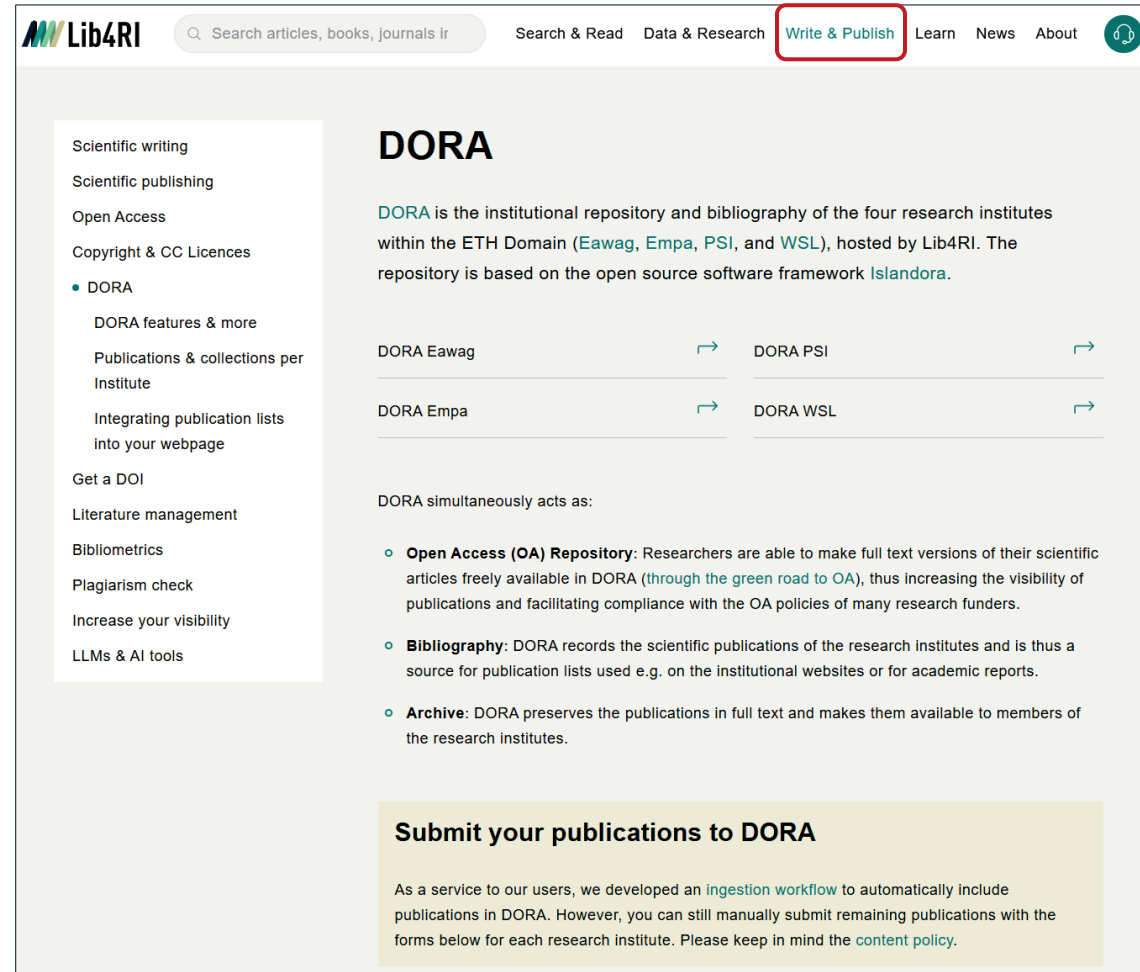
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- Information of more than 1.5 million standards and technical guidelines
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DORA – your institutional repository

DORA - your institutional repository

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The screenshot shows the DORA institutional repository search results for the query "human impact biodiversity". The interface includes a search bar at the top with the query entered and a search icon. Below the search bar, there are navigation elements: "DORA", "Repositories", "Lib4RI", and "About DORA".

Filters:

- Publication type:**
 - Journal Article (187)
 - Book Chapter (12)
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 - Dissertation (4)
 - Book (2)
 - Show 2 more
- Publication year:** A bar chart showing the distribution of publications from 1997 to 2026. The x-axis is labeled "From" (1997) and "To" (2026).

Active filters: Query: human impact biodiversity x Clear filters X

Items 1-20 of 213 (Navigation: 1 2 3 4 5 ... 11)

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Results:

- Eawag repository:**

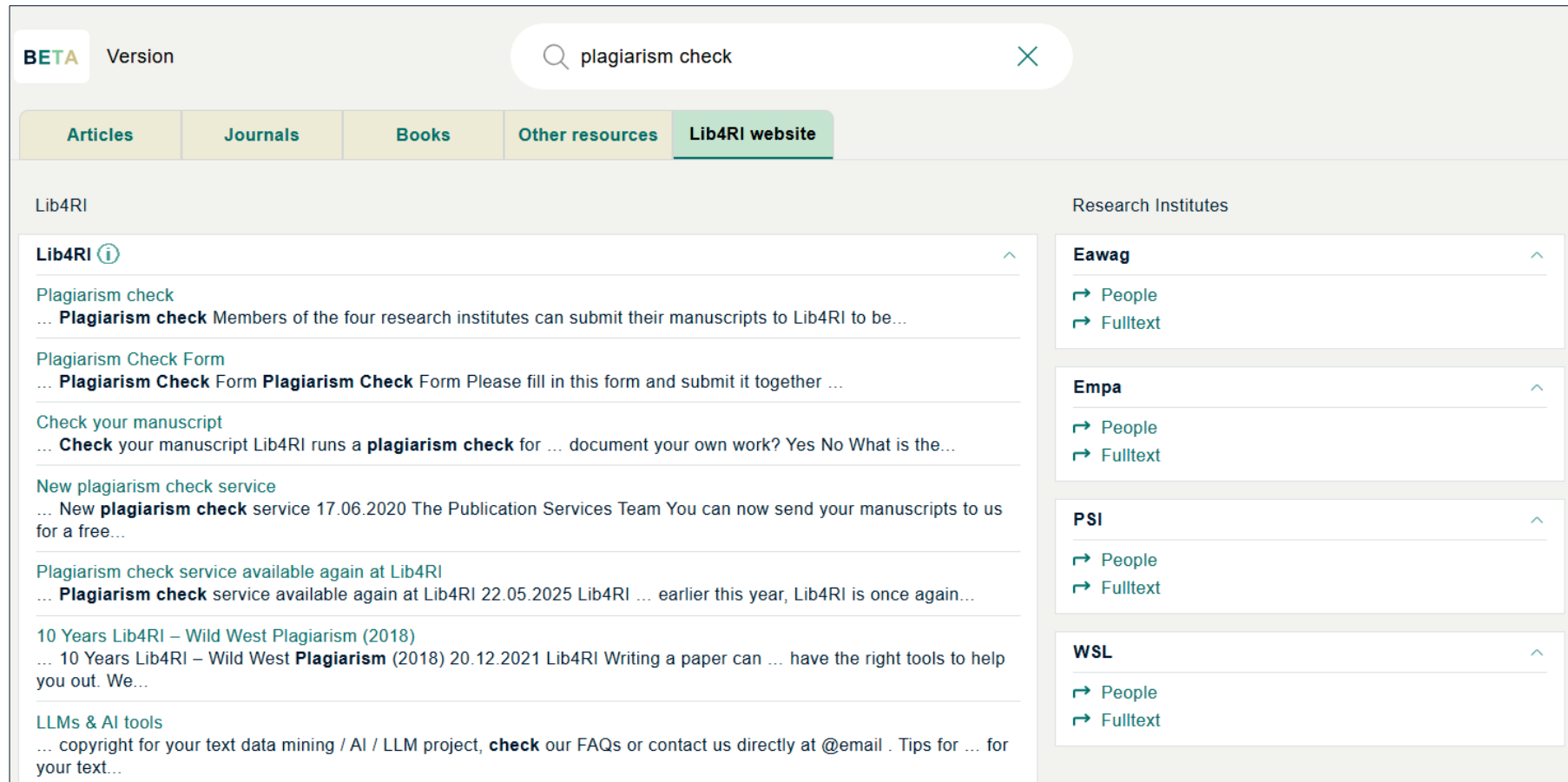
Black B, Adde A, Külling N, Büth C, Kurmann M, Lehmann A, *et al.*
Identifying robust area-based conservation strategies to secure ecosystem service provision under uncertainties
Journal of Environmental Management. 2026; 398: 128395 (16 pp.). <https://doi.org/10.1016/j.jenvman.2025.128395>
 View record → PUBLISHED VERSION SUPPLEMENTAL MATERIAL
- WSL repository:**

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Science. 2026; 391(6786): 669-678. <https://doi.org/10.1126/science.ads4361>
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- WSL repository:**

Ruile S, Pontarp M
Niche-based mechanisms mediating the impacts and mitigation of biological invasion
Ecological Modelling. 2026; 516: 111570 (9 pp.). <https://doi.org/10.1016/j.ecolmodel.2026.111570>
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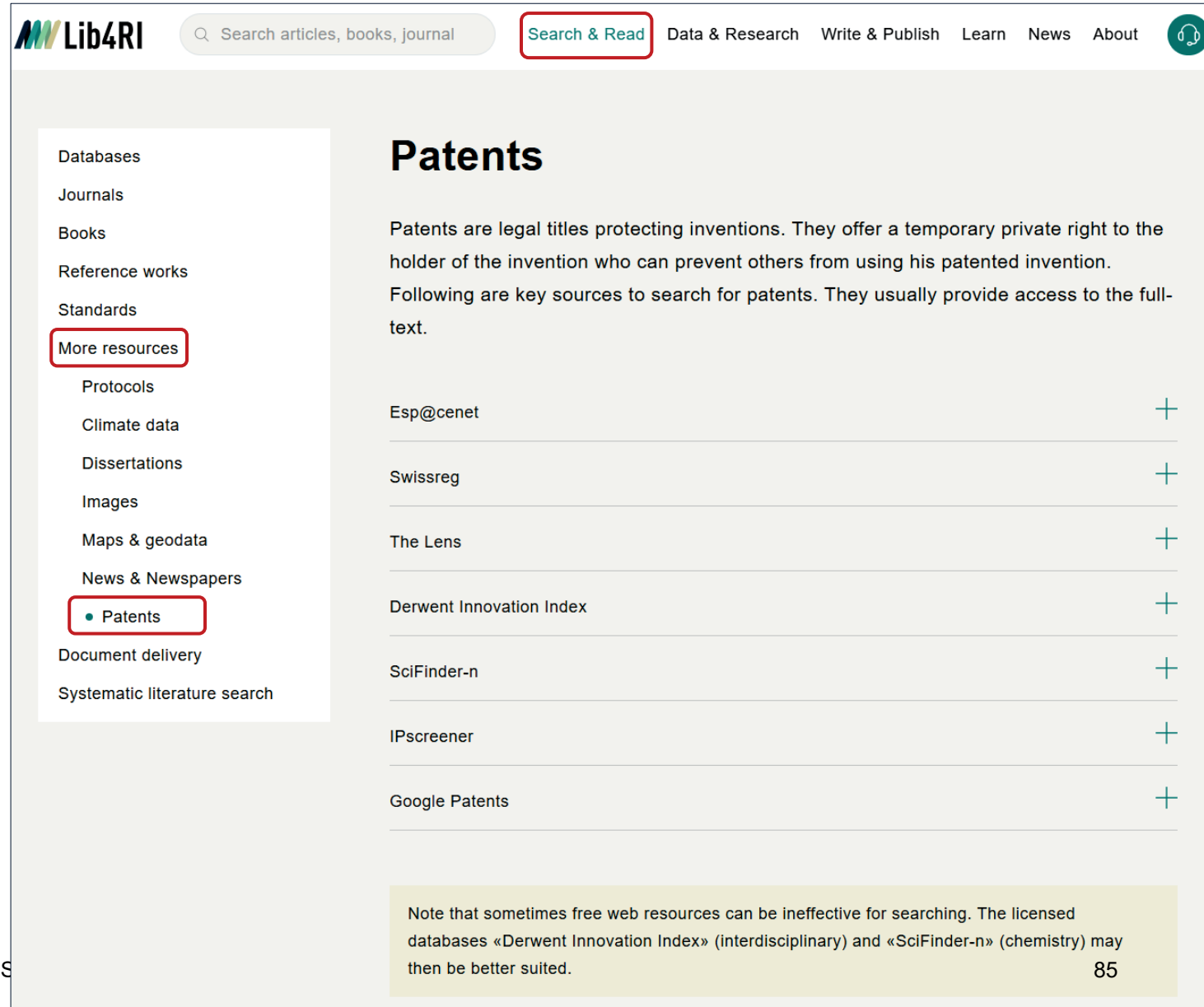
Website tab: Search for content on the Lib4RI or 4RI website



The screenshot shows the Lib4RI website interface. At the top left, there is a 'BETA Version' label. A search bar contains the text 'plagiarism check'. Below the search bar are navigation tabs: 'Articles', 'Journals', 'Books', 'Other resources', and 'Lib4RI website' (which is highlighted). The main content area is divided into two columns. The left column is titled 'Lib4RI' and contains a list of search results for 'Lib4RI', including links to 'Plagiarism check', 'Plagiarism Check Form', 'Check your manuscript', 'New plagiarism check service', 'Plagiarism check service available again at Lib4RI', '10 Years Lib4RI – Wild West Plagiarism (2018)', and 'LLMs & AI tools'. The right column is titled 'Research Institutes' and contains four sections: 'Eawag', 'Empa', 'PSI', and 'WSL'. Each of these sections has links for 'People' and 'Fulltext'.

Searching - patents

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- Esp@cenet +
- Swissreg +
- The Lens +
- Derwent Innovation Index +
- SciFinder-n +
- IPscreener +
- Google Patents +

Note that sometimes free web resources can be ineffective for searching. The licensed databases «Derwent Innovation Index» (interdisciplinary) and «SciFinder-n» (chemistry) may then be better suited.

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