



CESAB
CENTRE DE SYNTHÈSE ET D'ANALYSE
SUR LA BIODIVERSITÉ



La synthèse des connaissances sur la biodiversité : introduction aux méta-analyses et revues systématiques – 2024

Recherche de littérature : Bases de données & Equation de recherche

Sylvie Campagne

Sorbonne Université – Station Biologique de Roscoff



CNRS • SORBONNE UNIVERSITÉ
**Station Biologique
de Roscoff**



Bienvenüe



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 899546.



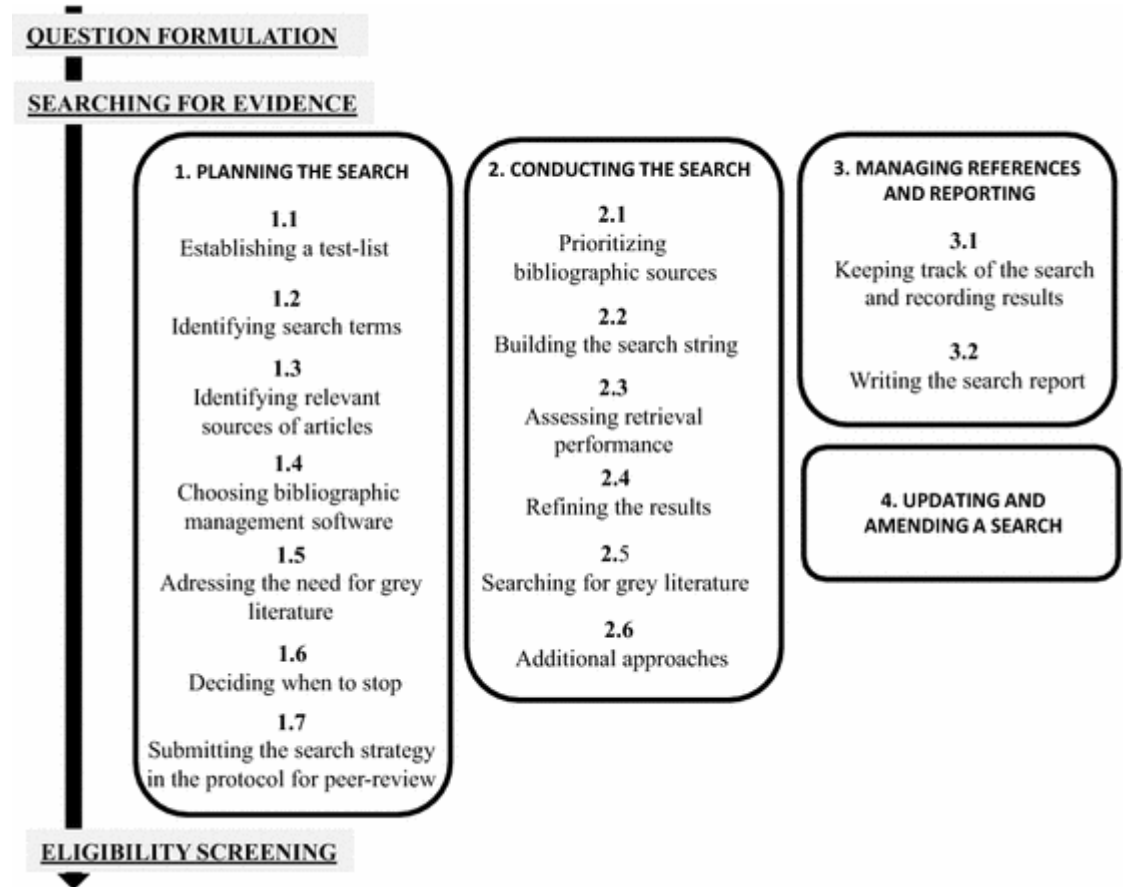
The search strategy

The goal:

Find the relevant bibliographic references !

The search strategy :

1. The search string
2. The bibliographic sources
3. The test-list



A guide to the planning, conduct, management and reporting of the searching phase of systematic reviews and systematic maps (after Livoreil et al. 2017).

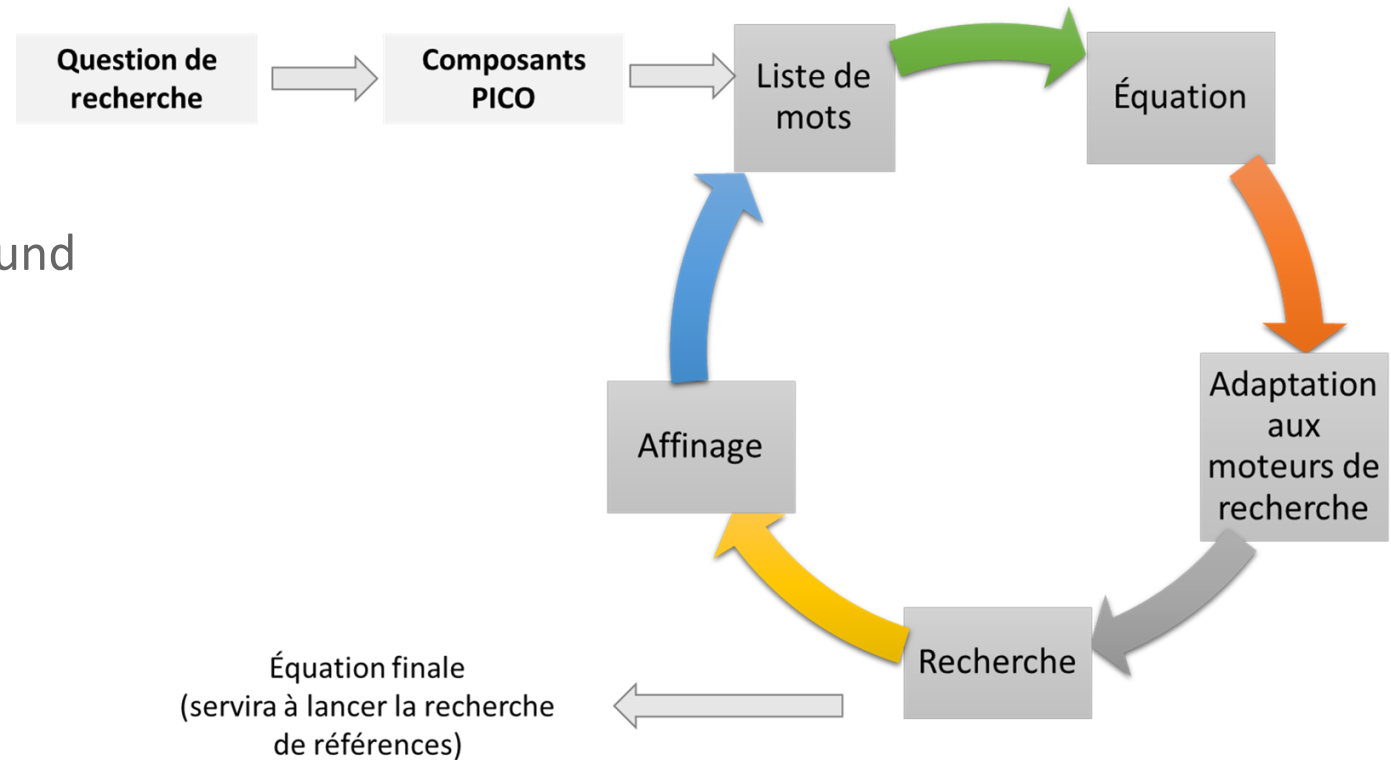
<https://environmentalevidence.org/information-for-authors/4-conducting-a-search/>

The search strategy

Starting with the research questions Define the search string

search terms encompasses individual or compound words used in a search to find relevant articles

search string is a combination of search terms combined using Boolean operators



The search string

PICO/PECO elements (Richardson et al. 1995)

Population : effect *on what?*

Intervention / Exposure : effect *of what ?*

Comparator : *compared to what? to what reference?*

Outcome : effect *measured by what?*

(**Context** : *what type of study?*)

Question element	Definition
Population (of subjects)	Unit of study (e.g. ecosystem, species) that should be defined in terms of the statistical populations of subject(s) to which the intervention will be applied.
Intervention/exposure	Proposed management regime, policy, action or the environmental variable to which the subject populations are exposed.
Comparator	Either a control with no intervention/exposure or an alternative intervention or a counterfactual scenario.
Outcome	All relevant outcomes from the proposed intervention or environmental exposure that can be reliably measured

The search string

1

Define the PICO based on the research question

PICO/PECO elements (Richardson et al. 1995)

My PICO

Population : *effect on what?*

Intervention / Exposure : *effect of what ?*

Comparator : *compared to what? to what reference?*

Outcome : *effect measured by what?*

(**Context** : *what type of study?*)



Example with the Agri-TE project:

What is the effect of agricultural practices on biodiversity at the global level?

The search string

1

Define the PICO based on the research question

PICO/PECO elements (Richardson et al. 1995)

Population : effect *on what?*

Intervention / Exposure : effect *of what ?*

Comparator : *compared to what? to what reference?*

Outcome : effect *measured by what?*

(**Context** : *what type of study?*)



My PICO

Any unplanned/uncultivated taxon

Any agricultural practice

Agricultural witness or natural environment of ref.

Effect-size representing a biodiv metric.

Meta-analyses only

Example with the Agri-TE project:
What is the effect of agricultural practices on biodiversity at the global level?

The search string

2

Establish the list of words that will be used to construct the search equation

My search terms

biodiversity, soil fauna, birds, butterflies

tillage, fertilization, pesticides

croplands, forest

species richness, biomass, Shannon's entertainment

meta-analyses

My PICO

Any unplanned/uncultivated taxon

Any agricultural practice

Agricultural witness or natural environment of ref.

Effect-size representing a biodiv metric.

Meta-analyses only



Example with the Agri-TE project:

What is the effect of agricultural practices on biodiversity at the global level?

The search string

3

Building the search string by adapting to search engines (eg: WoS)

My search terms

biodiversity, soil fauna, birds, butterflies

tillage, fertilization, pesticides

croplands, forest

species richness, biomass, Shannon's diversity

meta-analyses



My search string

TS= ((biodiversity OR soil fauna OR birds OR butterflies)

AND (tillage OR fertilizers **OR** pesticides)

AND (croplands OR forest)

AND (species richness OR biomass OR Shannon's diversity)

AND (meta-analyses))

Example with the Agri-TE project:

What is the effect of agricultural practices on biodiversity at the global level?

The search string

My search string

TS= ((biodiversity OR soil fauna OR birds OR butterflies)

AND (tillage OR fertilizers **OR** pesticides)

AND (croplands OR forest)

AND (species richness OR biomass OR Shannon's diversity)

AND (meta-analyses))

Topic (title, abstract,
keywords, keywords plus)

Logical and Boolean
Operators

Both depend on
the bibliographic
sources

Example with the Agri-TE project:
What is the effect of agricultural practices on biodiversity at the global level?

The search string

My search string

TS= ((biodiversity OR soil fauna OR birds OR butterflies)

AND (tillage OR fertilizers **OR** pesticides)

AND (croplands OR forest)

AND (species richness OR biomass OR Shannon's diversity)

AND (meta-analyses))

Topic (title, abstract,
keywords, keywords plus)

Logical and Boolean
Operators

Both depend on
the bibliographic
sources

Beware of database variations in the search equation!!!

- Some use a different language for searching
- For example, \$ instead of *.
- Additional options (inside or nearby)
- Help files are useful!
- Check the options
- Seek specialist help if necessary
- SAVE EVERYTHING

The search string

4

Test the search string

My search string

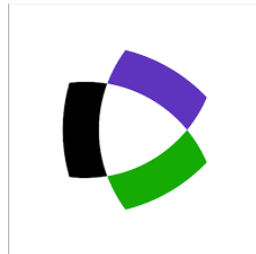
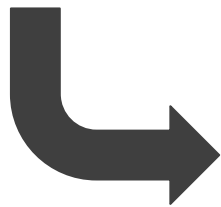
TS= ((biodiversity OR soil fauna OR birds OR butterflies)

AND (tillage OR fertilizers **OR** pesticides)

AND (croplands OR forest)

AND (species richness OR biomass OR Shannon's diversity)

AND (meta-analyses))



200 results is not enough!
20,000 results is too much!
Refinement needed...

The search string

5

Refine the search string

My search string

TS= ((biodiversity OR soil fauna OR birds OR butterflies)
AND (tillage OR fertilizers **OR** pesticides)
AND (croplands OR forest)
AND (species richness OR biomass OR Shannon's diversity)
AND (meta-analyses))

Exact Expression
"soil fauna"

Truncations
pesticide*, pesticide\$

Exclusion
NOT (medical science OR
economics)

Thematic
soil fauna OR (earthworms
OR spiders OR collembola OR
springtails)

The search string

5

Refine the search string

Iterative process that can (must?) be long

Ex: Foo et al. (2021)

Final search equation

Search Engines

Initial search string 159 results	1	TS = ((("terminal investment" OR "reproductive effort" OR "fecundity compensation") AND ("immune challeng*" OR "immunochalleng*" OR "infect*")) NOT (load OR human OR people))
Add inclusion terms 4,360 results	2	TS = ((("terminal investment" OR "reproductive effort" OR "fecundity compensation" OR "reproductive compensation" OR "fitness") AND ("immune challeng*" OR "immunochalleng*" OR "infect*" OR lipopolysaccharide OR lps OR phytohemagglutinin OR pha OR "sheep red blood cells" OR srbc OR implant OR vaccin*)) NOT (load OR human OR people))
Edit inclusion term 493 results	3	TS = ((("terminal investment" OR "reproductive effort" OR "fecundity compensation" OR "reproductive compensation" OR "reproductive fitness") AND ("immune challeng*" OR "immunochalleng*" OR "infect*" OR lipopolysaccharide OR lps OR phytohemagglutinin OR pha OR "sheep red blood cells" OR srbc OR implant OR vaccin*)) NOT (load OR human OR people))
Add inclusion terms 2,489 results	4	TS = ((("terminal investment" OR "reproductive effort" OR "fecundity compensation" OR "reproductive compensation" OR "reproductive fitness" OR "reproductive investment" OR "Life History Trade-Off*" OR "life history") AND ("immune challeng*" OR "immunochalleng*" OR "infect*" OR lipopolysaccharide OR lps OR phytohemagglutinin OR pha OR "sheep red blood cells" OR srbc OR implant OR vaccin*)) NOT (load OR human OR people))
Change inclusion term 1,819 results	5	TS = ((("terminal investment" OR "reproductive effort" OR "fecundity compensation" OR "reproductive compensation" OR "reproductive fitness" OR "reproductive investment" OR "Life History Trade-Off*" OR "life history" OR "trade off") AND ("immune challeng*" OR "immunochalleng*" OR "infect*" OR lipopolysaccharide OR lps OR phytohemagglutinin OR pha OR "sheep red blood cells" OR srbc OR implant OR vaccin*)) NOT (load OR human OR people))
Delete inclusion term 1,155 results	6	TS = ((("terminal investment" OR "reproductive effort" OR "fecundity compensation" OR "reproductive compensation" OR "reproductive fitness" OR "reproductive investment" OR "reproductive success" OR "Life History Trade-Off*" OR "trade off") AND ("immune challeng*" OR "immunochalleng*" OR "infect*" OR lipopolysaccharide OR lps OR phytohemagglutinin OR pha OR "sheep red blood cells" OR srbc OR implant OR vaccin*)) NOT (load OR human OR people))
Add inclusion term 1,429 results	7	TS = ((("terminal investment" OR "reproductive effort" OR "fecundity compensation" OR "reproductive compensation" OR "reproductive fitness" OR "reproductive investment" OR "reproductive success" OR "Life History Trade-Off*" OR "Phenotypic Plasticity") AND ("immune challeng*" OR "immunochalleng*" OR "infect*" OR lipopolysaccharide OR lps OR phytohemagglutinin OR pha OR "sheep red blood cells" OR srbc OR implant OR vaccin*)) NOT (load OR human OR people))
Add exclusion terms 1,141 results	8	TS = ((("terminal investment" OR "reproductive effort" OR "fecundity compensation" OR "reproductive compensation" OR "reproductive fitness" OR "reproductive investment" OR "reproductive success" OR "Life History Trade-Off*" OR "Phenotypic Plasticity") AND ("immune challeng*" OR "immunochalleng*" OR "infect*" OR lipopolysaccharide OR lps OR phytohemagglutinin OR pha OR "sheep red blood cells" OR srbc OR implant OR vaccin*)) NOT (load OR human OR people OR men OR women OR infant* OR rat OR rats OR mouse OR mice OR pig* OR pork OR beef OR cattle OR sheep OR lamb* OR chicken* OR calf* OR horse*))
Final search string 1,567 results (~10% hit rate)		<p>Pilot 100 papers to check hit rate, 6% hit rate. Continue refining.</p> <p>TS = ((("terminal investment" OR "reproductive effort" OR "fecundity compensation" OR "reproductive compensation" OR "reproductive fitness" OR "reproductive investment" OR "reproductive success" OR "Life History Trade-Off*" OR "Phenotypic Plasticity" OR "pre-copulatory NEAR/5 trait*" OR "sexual NEAR/5 weapon*" OR "sexual NEAR/5 ornament*" OR "post-copulatory NEAR/5 trait*" OR "ejaculate quality" OR "sperm quality" OR "mating effort" OR "parental care") AND ("immune challeng*" OR "immunochalleng*" OR "infect*" OR lipopolysaccharide OR lps OR phytohemagglutinin OR pha OR "sheep red blood cells" OR srbc OR implant* OR vaccin* OR nylon OR sephadex)) NOT (load OR human OR people OR men OR women OR infant* OR rat OR rats OR mouse OR mice OR pig* OR pork OR beef OR cattle OR sheep OR lamb* OR chicken* OR calf* OR horse* OR infective))</p>

The bibliographic sources

Bibliographic sources capture any source of references, including electronic bibliographic databases, those sources which would not be classified as databases (e.g. the Internet via search engines), hand searched journals, and personal contacts.

- Bibliographic
 - eg WoS, Scopus, Pubmed
- Web search tools
 - eg Google, Google Scholar
- Grey literature sources
 - Organizational websites
 - Thesis repositories

Scopus® PubMedWEB OF SCIENCE®Google ScholarWWFdefra
Department for Environment
Food and Rural AffairsNATUR
VÅRDS
VERKETL R FEThOS
ELECTRONIC THESES ONLINE SERVICE
Opening access to UK theses

The bibliographic sources

Bibliographic databases

- Web of Science
- Scopus
- Agricola
- AGRIS (FAO)
- Academic Search Premier
- Biological Abstracts
- CAB Abstracts
- etc.

Web search tools

!!! Depend of connection
parameters!!!!

Grey literature sources

- 'File drawer' research / unpublished research results
 - Unfinished/published/accepted articles
 - The theses
 - The “uninteresting” results
 - Non-academic studies
 - Technical reports
 - Government documents
 - Internal reports
- all results not intended for academic publication

The bibliographic sources

Grey literature sources

- 'File drawer' research / unpublished research results

- Unfinished/published/accepted articles
- The theses
- The “uninteresting” results

- Non-academic studies

- Technical reports
- Government documents
- Internal reports


all results not intended for academic publication

How to find them?

- *Calls for evidence (social media, networks)*
- *Thesis databases (eg eThOS)*
 - *Google Scholar, Google*
- *Pre-print servers (eg ArchivX)*
 - *Organizational websites*

Example with web of science

WEB OF SCIENCE™



THOMSON REUTERS™

Search

Web of Science™ Core Collection

My Tools

Search History

Marked List

Welcome to the new Web of Science! [View a brief tutorial.](#)

Basic Search

Example: oil spill* mediterranean

✕

Topic

▼

Search

[Click here for tips to improve your search.](#)

[+ Add Another Field](#) | [Reset Form](#)

TIMESPAN

☒ All years

☐ From 1945 to 2017

▼ MORE SETTINGS

Web of Science Core Collection: Citation Indexes

☒ Science Citation Index Expanded (SCI-EXPANDED) –1945-present
 ☒ Social Sciences Citation Index (SSCI) –1956-present
 ☒ Arts & Humanities Citation Index (A&HCI) –1975-present
 ☒ Conference Proceedings Citation Index- Science (CPCI-S) –1990-present
 ☒ Conference Proceedings Citation Index- Social Science & Humanities (CPCI-SSH) –1990-present
 ☒ Book Citation Index– Science (BKCI-S) –2005-present
 ☒ Book Citation Index– Social Sciences & Humanities (BKCI-SSH) –2005-present
 ☒ Emerging Sources Citation Index (ESCI) –2015-present

Data last updated: 2017-02-07

Auto-suggest publication names

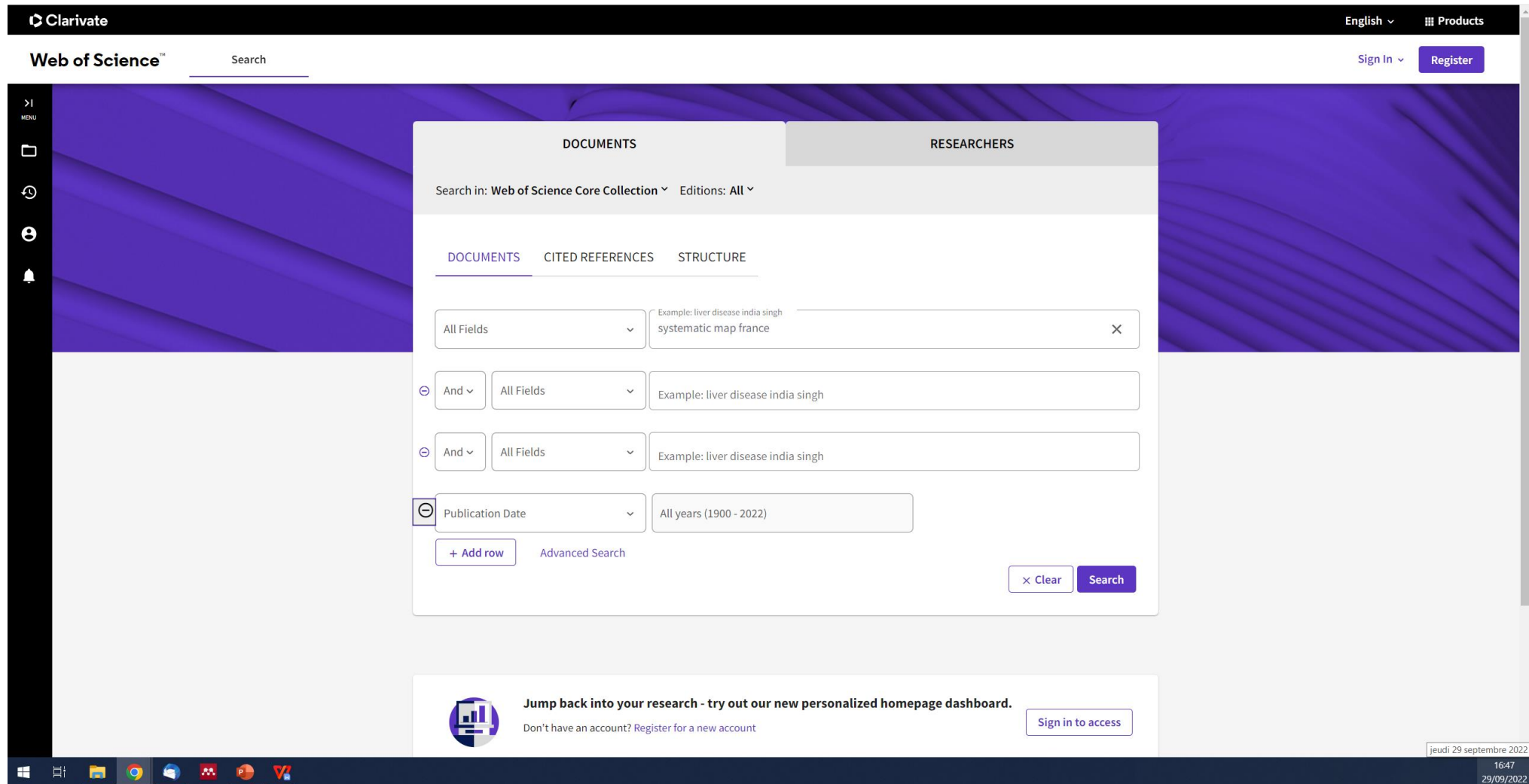
(The Autosuggest service is not available.)

Default Number of Search Fields to Display

1 field (Topic)

Example with web of science

<https://www.webofscience.com/wos/woscc/basic-search>



The screenshot shows the Web of Science search interface. The top navigation bar includes the Clarivate logo, language settings (English), and product information. The main header features the 'Web of Science' logo and a search bar. A sidebar on the left contains navigation icons. The central search area is divided into 'DOCUMENTS' and 'RESEARCHERS' tabs. Under the 'DOCUMENTS' tab, there are options to search in the 'Web of Science Core Collection' and filter by 'Editions: All'. Below this, there are three tabs: 'DOCUMENTS', 'CITED REFERENCES', and 'STRUCTURE'. The 'DOCUMENTS' tab is active, showing a search input field with the text 'Example: liver disease india singh systematic map france'. Below the input field, there are three rows of search criteria, each with a dropdown menu for 'All Fields' and a text input field containing 'Example: liver disease india singh'. The first row is expanded, showing a 'Publication Date' dropdown set to 'All years (1900 - 2022)'. At the bottom of the search area, there are buttons for '+ Add row', 'Advanced Search', 'x Clear', and 'Search'. A footer banner at the bottom of the page encourages users to 'Jump back into your research - try out our new personalized homepage dashboard' and provides a link to 'Sign in to access'.

Clarivate English Products

Web of Science™ Search Sign In Register

DOCUMENTS RESEARCHERS

Search in: Web of Science Core Collection Editions: All

DOCUMENTS CITED REFERENCES STRUCTURE

All Fields Example: liver disease india singh systematic map france

And All Fields Example: liver disease india singh

And All Fields Example: liver disease india singh

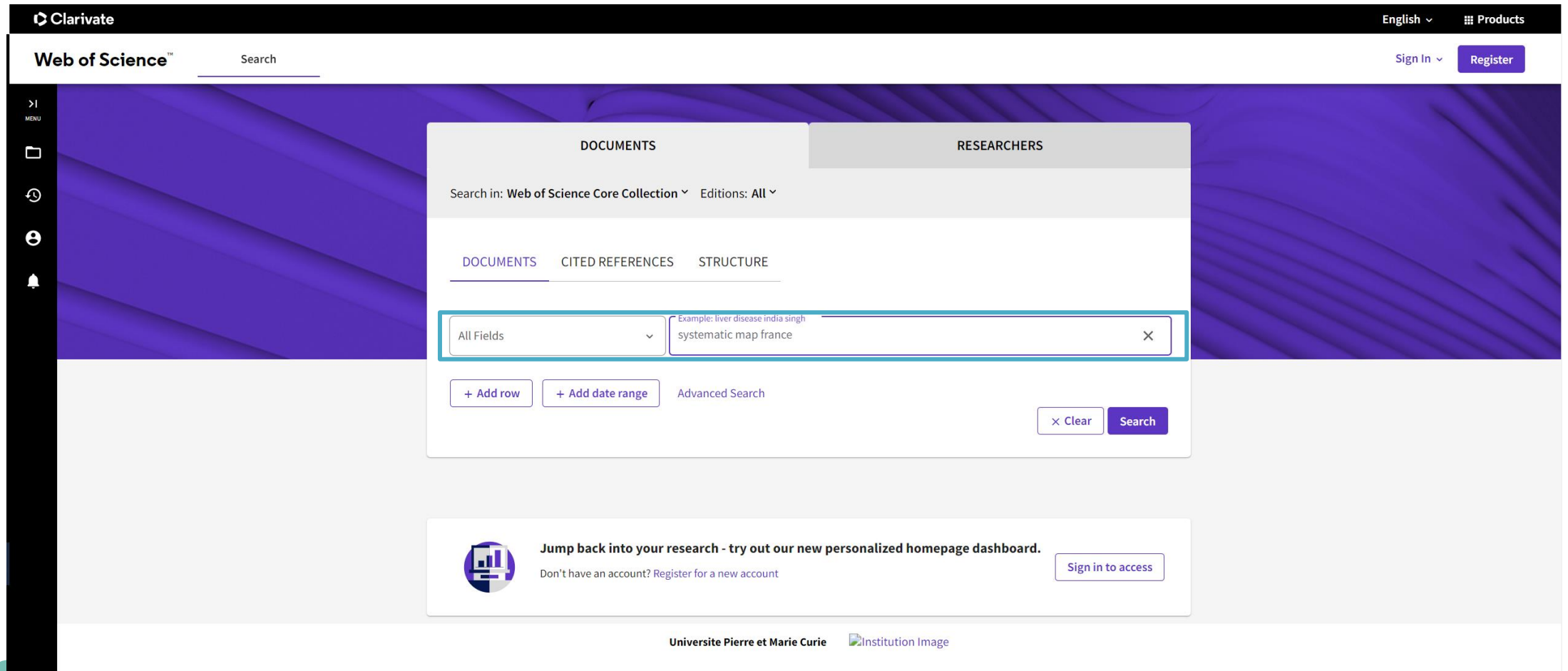
Publication Date All years (1900 - 2022)

+ Add row Advanced Search x Clear Search

Jump back into your research - try out our new personalized homepage dashboard. Don't have an account? Register for a new account Sign in to access

jeudi 29 septembre 2022 16:47 29/09/2022

Example with web of science



The screenshot displays the Web of Science interface. At the top, the Clarivate logo is on the left, and 'English' and 'Products' are on the right. Below this, the 'Web of Science' header includes a search bar and 'Sign In' and 'Register' buttons. A left sidebar contains navigation icons. The main content area features two tabs: 'DOCUMENTS' (active) and 'RESEARCHERS'. Under 'DOCUMENTS', there are sub-tabs for 'DOCUMENTS', 'CITED REFERENCES', and 'STRUCTURE'. A search bar is present with a dropdown menu set to 'All Fields' and a text input containing 'Example: liver disease india singh' and 'systematic map france'. Below the search bar are buttons for '+ Add row', '+ Add date range', and 'Advanced Search'. At the bottom right of the search area are 'Clear' and 'Search' buttons. A promotional banner at the bottom encourages users to 'Jump back into your research - try out our new personalized homepage dashboard.' and provides a link to 'Sign in to access' for those without an account.

Clarivate

English Products

Web of Science™ Search

Sign In Register

>1 MENU

DOCUMENTS RESEARCHERS


Search in: Web of Science Core Collection Editions: All


DOCUMENTS CITED REFERENCES STRUCTURE

All Fields Example: liver disease india singh
systematic map france

+ Add row + Add date range Advanced Search

Clear Search

 **Jump back into your research - try out our new personalized homepage dashboard.**
Don't have an account? [Register for a new account](#) [Sign in to access](#)

Universite Pierre et Marie Curie  Institution Image

Example with web of science

Clarivate

English

Products

Web of Science™

Search

Sign In

Register

Search > Results for systematic map france (All Fields)

2,139 results from Web of Science Core Collection for:

Analyze Results

Citation Report

Create Alert

Copy query link

Publications

You may also like...

Refine results

Filter by Marked List

Quick Filters

Highly Cited Papers

Review Article

Early Access

Open Access

Enriched Cited References

Authors

Show Researcher Profiles

Ade, Peter

Natoli, P.

Polenta, G.

Baccigalupi, C.

Piacentini, F.

0/2,139

Add To Marked List

Export

Sort by: Relevance

1 of 43

1

Mapping of Soils and Land-Related Environmental Attributes in France: Analysis of End-Users' Needs

Richer-de-Forges, AC; Arrouays, D; (...) Voltz, M

May 2 2019 | SUSTAINABILITY 11 (10)

The 1:250,000 soil mapping program of France is nearly complete. Although mapping has been conducted using conventional methods, there is a discernible need to obtain more precise soil data using other methods, and this is attracting considerable attention. However, it is currently not possible to implement a conventional and systematic program throughout the French territory, as the cost of ac

Context Sensitive LinksFree Full Text from Publisher

10 Citations

41 References

Related records

2

KPIs for Software Ecosystems: A Systematic Mapping Study

Fotrousi, F; Fricker, SA; (...) Le-Gall, E

5th International Conference on Software Business (ICSOB) 2014 | SOFTWARE BUSINESS: TOWARDS CONTINUOUS VALUE DELIVERY 182 , pp.194+

To create value with a software ecosystem (SECO), a platform owner has to ensure that the SECO is healthy and sustainable. Key Performance Indicators (KPI) are used to assess whether and how well such objectives are met and what the platform owner can do to improve. This paper gives an overview of existing research on KPI-based SECO assessment using a systematic mapping of research publications

Context Sensitive Links

12 Citations

44 References

Related records

Windows Taskbar

16:47 29/09/2022

Example with web of science

DOCUMENTS

CITED REFERENCES

STRUCTURE

Title

Example: water consum*
systematic map france

+ Add row

+ Add date range

Advanced Search

× Clear

Search

Clarivate

Web of Science™

Search

Results for systematic map ... Results for systematic map france (Title)

3 results from Web of Science Core Collection for:

systematic map france (Title)

Copy query link

Publications

You may also like...

Refine results

Search within results...

Filter by Marked List

Quick Filters

Review Article

Open Access

Authors

Show Researcher Profiles

Bispo, Antonio

Saby, Nicolas P. A.

Moncel, Marie-Helene

Briand, Olivier

Boulio, Yves

See all >

Publication Years

0/3

Add To Marked List

Export

Sort by: Relevance

1 of 1

1

Systematic surveys of a valley between Rhone and Loire Rivers (France). Mapping of the human occupation at the end of the Acheulean?

Moncel, MH; Arzarello, M and Boulio, Y

Nov-dec 2017 | ANTHROPOLOGIE 121 (5) , pp.428-450

Systematic surveys on the Rhins Valley, a little tributary of the Loire River (South East France), have yielded lithic assemblages for more than 20 years. The number of open-air localities totals at that moment 28. The assemblages are composed for the most of bifaces, cores, including many Levallois cores, and flakes. Although the number of pieces varies in localities, data recorded for more th

Context Sensitive Links Full Text at Publisher

40

References

2

The Early Stage of the COVID-19 Outbreak in Tunisia, France, and Germany: A Systematic Mapping Review of the Different National Strategies

Laffet, K; Haboubi, E; (...); Rothan-Tondeur, M

Aug 2021 | INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH 18 (16)

The multitude of national strategies used against the COVID-19 pandemic makes it necessary to review and synthesize them in order to identify potential gaps and shortcomings, and to help prioritize future control efforts. This systematic mapping review is aimed at identifying the coronavirus pandemic management strategies adopted by France, Tunisia, and Germany during the early stage of the COV

Context Sensitive Links Free Full Text from Publisher

1

Citation

59

References

Example with Scopus



Scopus

[Search](#) [Lists](#) [Sources](#) [SciVal](#) [?](#) [🏛️](#)

[Create account](#)

[Sign in](#)

Start exploring

Discover the most reliable, relevant, up-to-date research. All in one place.

[📄 Documents](#) [👤 Authors](#) [🏢 Affiliations](#)

[Search tips](#) [?](#)

Search within
Article title, Abstract, Keywords

Search documents *



AND

Search within
Article title, Abstract, Keywords

Search documents



[+ Add search field](#) [📅 Add date range](#) [Advanced document search >](#)

[Search](#) [🔍](#)

[Search History](#) [Saved Searches](#)



Start searching and your history will appear here. If you need help to start searching, see our [search tips](#).

Learn more about what Scopus can do for you

[Show less](#) [^](#) [Don't show again](#)



Get noticed by the right people
Claim your author profile to better showcase your work



Find and follow experts
Discover and follow peers and experts. Use alerts



Discover and get inspired
Dive into curated, relevant and linked content. Use



Browse with ease of mind
To ensure your safety we only index quality

Example with Publish or Perish






Harzing's Publish or Perish (Windows GUI Edition) 8.2.3883.8074



File Edit Search View Help



Search terms	Source	Papers	Cites	Cites/year	h	g	hI,norm	hI,annual	hA	acc10
(marine OR coastal OR ocean) A...	Google Scho...	500	132703	5529.29	155	361	92	3.83	55	278



No search selected

Select an existing search to inspect or modify it, or click one of these buttons to create a new search.

 Crossref*
  OpenAlex*
  Import External Data...

 Google Scholar*
  Scopus**
 [About importing external data](#)

 Google Scholar Profile*
  Semantic Scholar**
 * Free data source

 PubMed*
  Web of Science***
 ** Free registration required
*** External subscription

Cites	Per year	Rank	Authors	Title	Year	Publication	Publisher

Citation metrics

[Help](#)

Publication years:
 Citation years:
 Papers:
 Citations:
 Cites/year:
 Cites/paper:
 Authors/paper:
 h-index:
 g-index:
 hI,norm:
 hI,annual:
 hA-index:
 Papers with ACC >= 1,2,5,10,20:

Copy Results ▼

Save Results ▼

Paper details

[Help](#)

Select a paper in the results list
(to the left of this pane) to see
its details here

Copy Paper Details ▼

Tools

Preferences...

[Online User's Manual](#)
[Frequently Asked Questions](#)
[Training Resources](#)
[YouTube Channel](#)
[Become a PoP Supporter](#)

Example with Publish or Perish



Harzing's Publish or Perish (Windows GUI Edition) 8.2.3883.8074

File Edit Search View Help

My searches	Search terms	Source	Papers	Cites	Cites/year	h	g	hI,norm	hI,annual	hA	acc10
Trash	(marine OR coastal OR ocean) A...	Google Scho...	500	132703	5529.29	155	361	92	3.83	55	278

Google Scholar search

Authors: Years: 0 - 0 [Search](#)

Publication name: ISSN: [Search Direct](#)

Title words: [Clear All](#)

Keywords: (marine OR coastal OR ocean) AND (species OR biodiversity OR ecosystem) AND "ecosystem services" AND char [Revert](#)

Maximum number of results: 500 Include: ☒ CITATION records ☒ Patents [New](#)

Citation metrics

Publication years: 1997-2021
 Citation years: 24 (1997-2021)
 Papers: 500
 Citations: 132703
 Cites/year: 5529.29
 Cites/paper: 265.41
 Authors/paper: 3.65
 h-index: 155
 g-index: 361
 hI,norm: 92
 hI,annual: 3.83
 hA-index: 55
 Papers with ACC >= 1,2,5,10,20:
 493,476,396,278,168

Copy Results

Save Results

Paper details

Select a paper in the results list (to the left of this pane) to see its details here

Copy Paper Details

Tools

Preferences...

Online User's Manual

Frequently Asked Questions

Training Resources

YouTube Channel

Become a PoP Supporter

Cites	Per year	Rank	Authors	Title	Year	Publication	Publish
<input checked="" type="checkbox"/> h 184	15.33	1	SR Cooley, HL Kite...	Ocean acidification's potential to ...	2009	Oceanography	JSTOR
<input checked="" type="checkbox"/> h 417	34.75	2	H Mooney, A Larig...	Biodiversity, climate change, and e...	2009	Current opinion in ...	Elsevi
<input checked="" type="checkbox"/> h 413	19.67	3	CM Duarte	Marine biodiversity and ecosystem...	2000	Journal of experimental m...	Elsevi
<input checked="" type="checkbox"/> 51	4.64	4	KMA Chan, M Ruck...	Characterizing changes in marine ...	2010	F1000 biology reports	ncbi.n
<input checked="" type="checkbox"/> h 200	33.33	5	C Hattam, JP Atkin...	Marine ecosystem services: linking...	2015	Ecological ...	Elsevi
<input checked="" type="checkbox"/> 56	9.33	6	RK Turner, M Scha...	Coastal zones ecosystem services	2015	Valuation of Ecosystem Ser...	Spring
<input checked="" type="checkbox"/> h 272	22.67	7	SR Palumbi, PA San...	Managing for ocean biodiversity t...	2009	Frontiers in Ecology ...	Wiley
<input checked="" type="checkbox"/> h 319	29.00	8	EF Granek, S Polask...	Ecosystem services as a common l...	2010	Conservation ...	Wiley
<input checked="" type="checkbox"/> 42	21.50	9	ID Lou, CC Hicks, G	What matters to whom and why?	2019	Ecosystem services	Elsevi

The test list

Test-list : studies that you wish to include in your systematic review and which you know meet the inclusion criteria.

- Discuss the list (involve partners/co-authors/colleagues) to construct it and then consolidate it
- Extract metadata
- Order of magnitude, ca. 30 items

Interest : verify the capacity of a research equation to capture studies corresponding to the aim of our systematic review.

- Calculate the miss rate = the % of items belonging to the test list not captured by the equation

It must be minimized, ie the equation must approach 100% of the captured test-list... Refinement possible.

Complementary measures of the efficiency of the equation

- **Miss-rate** : thanks to the test-list, must be minimized
- **Hit-rate** : Percentage of relevant articles, calculated on a sample (for example, on 100 randomly selected results)
→ aim for at least 10%
- **Number of results** : Aim for between 1000 and 3000.

Adapt depending on the search engine used and/or the strategy employed.



CESAB
CENTRE DE SYNTHÈSE ET D'ANALYSE
SUR LA BIODIVERSITÉ



Thank you for your attention !!!

Sylvie Campagne
Sorbonne Université – Station Biologique de Roscoff
sylviecampagne@gmail.com



Bienvenüe



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 899546.



CNRS • SORBONNE UNIVERSITÉ
**Station Biologique
de Roscoff**

