



 Scott Robinson

Information search and resources for doctoral students

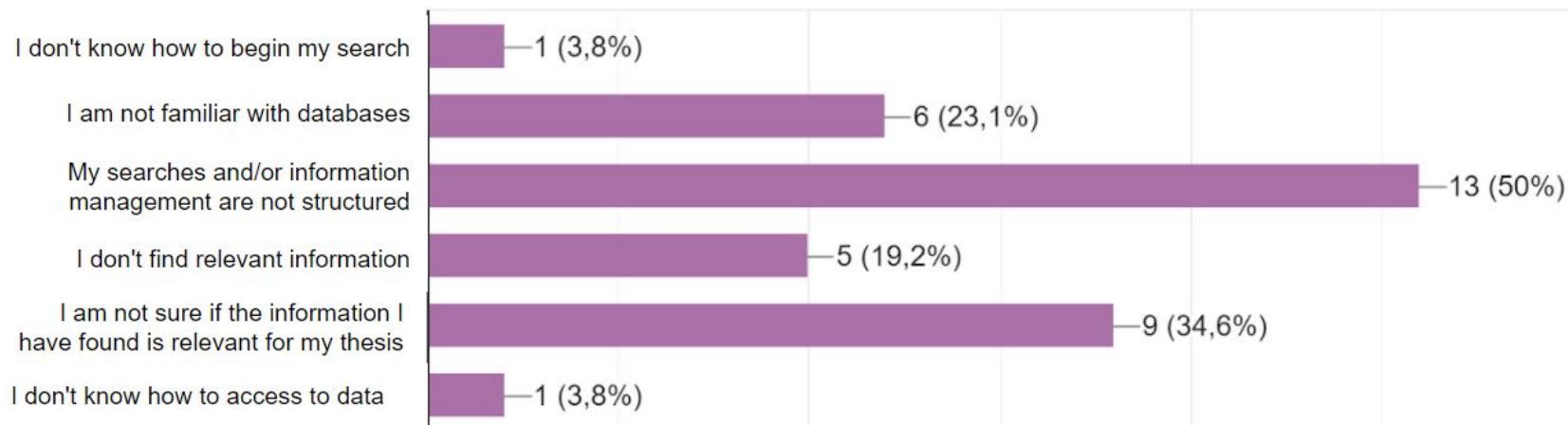
CIMNE WINTER SCHOOL

January 2022

Your answers

Which challenges do you face when researching for specific information for your thesis?

26 respostes



How to structure your information search?

First of all...

A **state of the art or literature review** usually is a first phase of a research.

Have you enough knowledge on your topic to begin with your search?

- Scope? Applications?
- Areas or fields connected or included to the topic?
- Terminology?

If case not...

- Read introductory works on the topic
- Create a scheme or mental map
- Ask your advisor



Search strategy process in 7 steps

1. Formulate your topic in a sentence
2. Identify key concepts
3. Choose the keywords
4. Combine keywords
5. Choose a source to search
6. Search
7. Assess the results



Search strategy

1 Formulate your topic in a sentence

Express the subject or topic in a specific phrase

Examples:

Thermal cycles effect on landslide motion

Remote robots for laparoscopy surgery

Applying machine learning to sentiment analysis



Search strategy

2 Identify key concepts

Example: Thermal effect on landslide motion

- ✓ *Thermal*
- ✓ *Landslide*
- ✓ *Motion*

too generic ?



Search strategy

3 Choose keywords for each concept

- You may use dictionaries, reference works, Wikipedia...

- Consider synonyms and acronyms

Laparoscopy = Keyhole surgery ; Artificial intelligence = AI

- Consider variations of British/American English (spelling and terminology)

Colour / Color ; Behaviour / Behaviour ; Aluminium / Aluminum
Motorway / Highway ; Petrol / Gas ; Mobile phone / Cell phone

Acronyms sometimes are tricky!



Search strategy

- Consider former denominations of topics, methods, processes, inventions etc.

Data analysis → Big data ; 4G → 5G

- Consider related terms and narrow concepts encompassed in broader terms

*Robotics > Robots > Nanorobots ; Microrobots ;
Biorobots*

Example: Selected keywords:

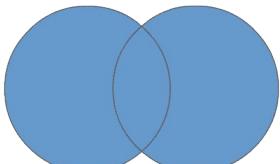
- ✓ **Thermal** = Thermic ; Heat; Heating; Temperature; Climate
- ✓ **Landslide** = Landslip; Slope failure, Debris flow
- ✓ **Motion** = Movement; Dynamics; Kinematics



Search strategy

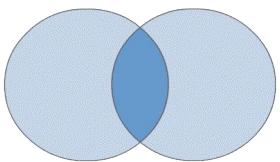
4 Combine the keywords

Boolean operators **AND, OR, NOT** are used **in databases** to combine one or more terms in one search step



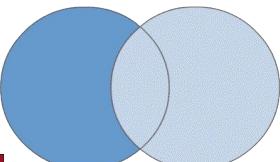
To add synonyms or related terms

“laparoscopy” OR “keyhole surgery”



To combine terms

“robot” AND “laparoscopy”



To exclude terms

“robot” NOT “nanorobot”



Search strategy

5

Choose sources to search

Search engines

- Larger coverage
- Simple search
- Limited filtering capability
- Algorithms decide what is relevant
- Search engines may introduce biases
- Immediate satisfaction

Boolean search not supported!

Google Scholar

Databases

- Selected content
- Complex search
- Rich information
- Tools to analyse results
- You control the process



Clarivate
Web of Science™

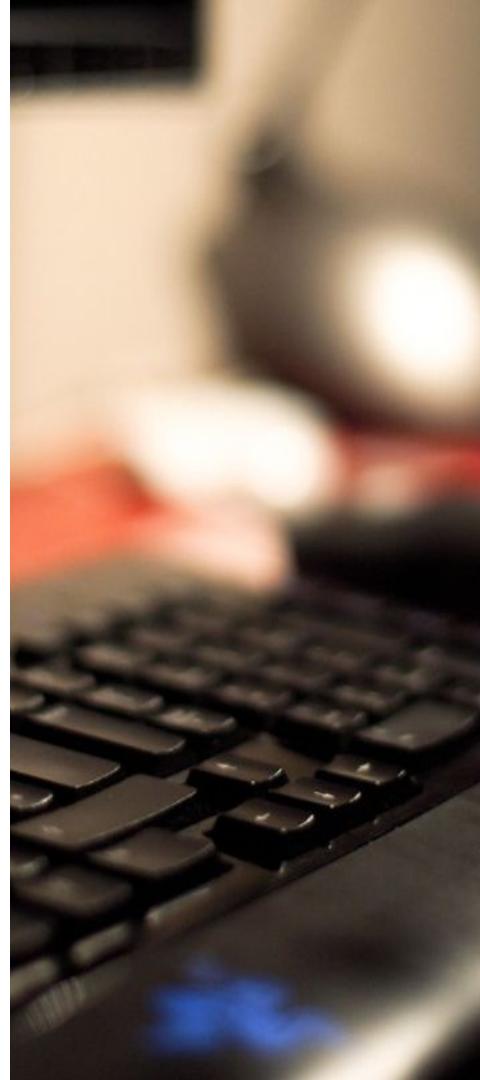


Search strategy

6 Search

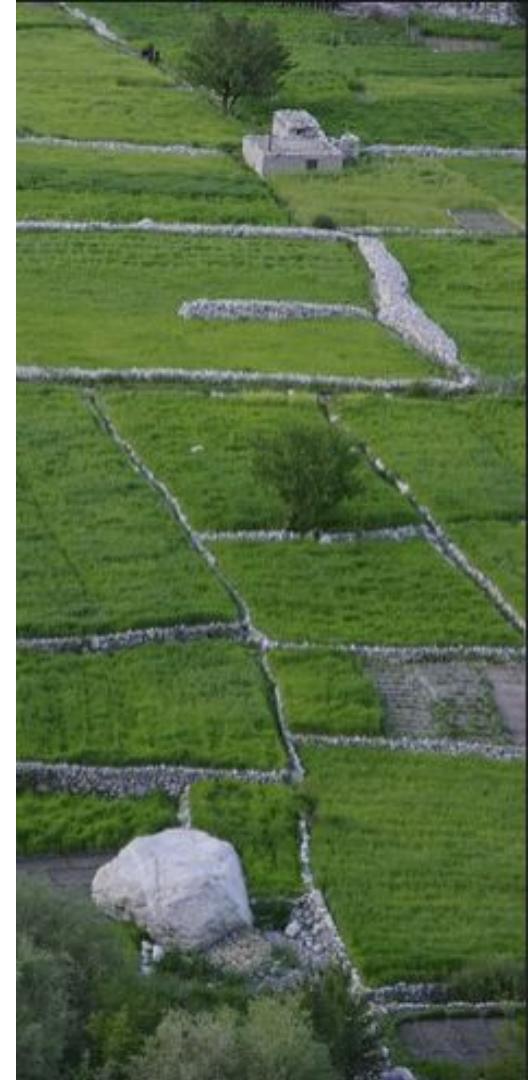
You may use:

- **Truncations and/or wildcards:** *, \$, ?, !
To retrieve words with the same root: → industr* = industry, industries, industrial
- **Quotations:** “...”
To search for an exact phrase → “robot-assisted surgery”
- **Brackets:** (...)
To combine more than one search term in the same field using different Boolean operators → (remote OR distance) AND surgery
- **Additional operators** supported by the source → NEAR, SAME, etc.
- **Other limits** → chronological, types of document, languages, etc..



Search strategy

- **Search fields:**
 - To retrieve words in a specific field of the record: AUTHOR, TITLE, ABSTRACT, AFFILIATION...
 - To increase the pertinence of the results, begin searching in the option
TITLE-KEYWORDS-ABSTRACT
 - **Simple search / Advanced search**
- Sometimes by default*



Search strategy

7

Assess the results

-Too few articles? (Silence)

- Check the spelling
- Use some more general search terms
- Add more synonyms

- Too many articles? Non relevant information? (Noise)

- Use more specific terms or phrases to narrow the search
- Disambiguate words with different meanings
- Limit your search to entries that meet specific requirements



Search strategy

7 Assess the results



When using search engines, keep in mind...

- What does relevance mean to the search engine algorithm?
- Are there differences in results based on your user profile?
(gender, nationality, age ...?)
- Are there restricted and censored content?
- Can you control the parameters used in information retrieval?



Bibliographic databases (and other information resources)

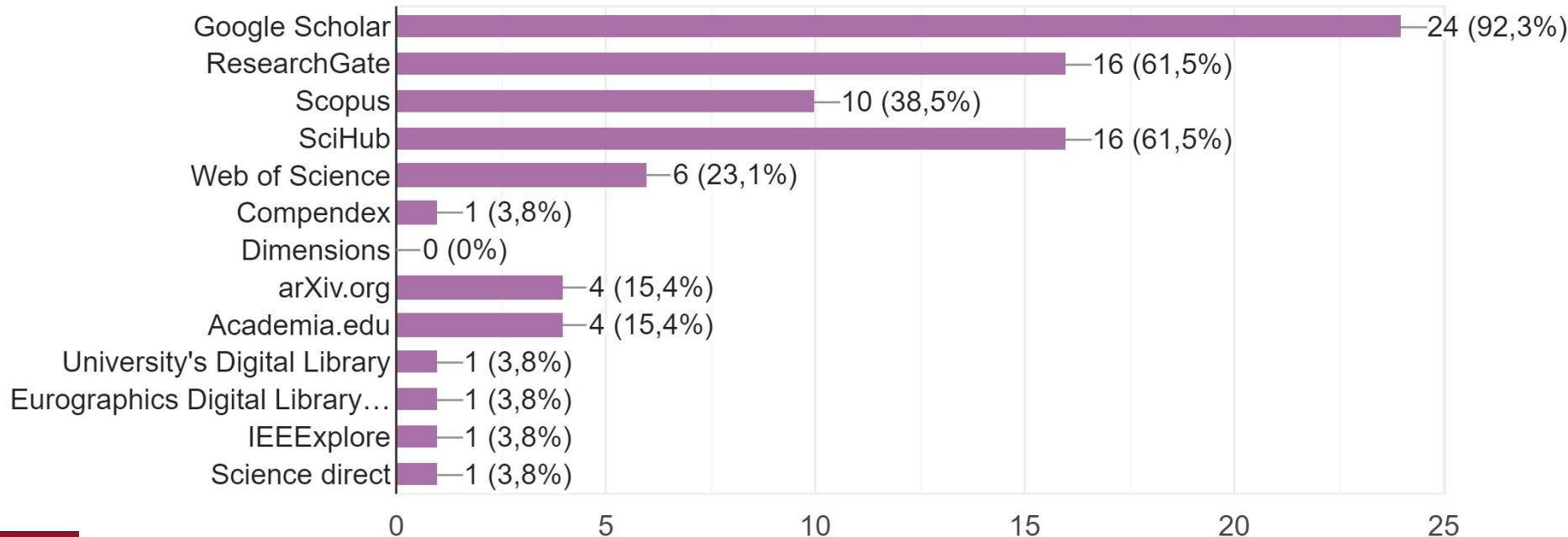


[Michael Mandiberg](#)

Your answers

Which search engines, databases, or websites do you use to search information for your thesis?

26 respostes



Comparing use by Google Trends

≡ Google Trends

Compare

researchgate

Search term

web of science

Search term

scopus

Search term

sci-hub

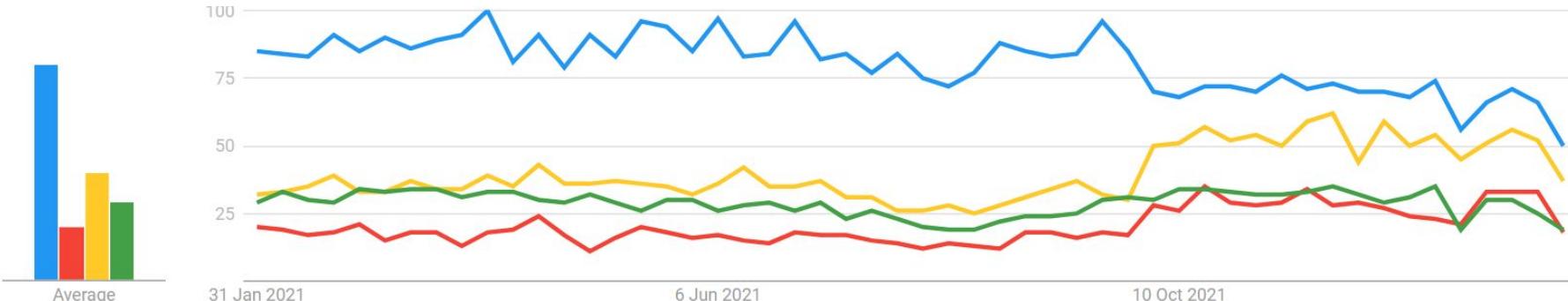
Search term

Worldwide ▾

Past 12 months ▾

All categories ▾

Web Search ▾



Getting the full text in Google Scholar

≡ **Google Scholar** Riemannian optimization for phase retrieval from masked Fourier measureme 

Articles

Any time
Since 2022
Since 2021
Since 2018
Custom range...

Sort by relevance
Sort by date

Riemannian optimization for phase retrieval from masked Fourier measurements
H Li, S Li - *Advances in Computational Mathematics*, 2021 - Springer
In this paper, we consider the noisy phase retrieval problem under the measurements of Fourier transforms with complex random masks. Here two kinds of Riemannian optimization algorithms, namely, Riemannian gradient descent algorithm (RGrad) and Riemannian conjugate gradient descent algorithm (RCG), are presented to solve such problem from these special but widely used measurements in practical applications. Since the masked Fourier measurements are less random, we establish stable guarantees for signals by the ...
☆ Save  Cite All 2 versions

Showing the best result for this search. See all results

Biblioteca Digital UPC

Academic social networks: Do & don'ts

ResearchGate – invitation to share

The screenshot shows the ResearchGate 'One-Click Upload' interface. It displays a list of publications found online, with the first one being 'Modeling Language Learners' Knowledge State: What Are I Students' Free Written Productions Telling Us?'. Below the publication details, there is a note about self-archiving and a link to learn more. At the bottom of the list, there is a checkbox labeled 'I reviewed and verified the files I am going to upload and made sure author. I also agree to the [upload conditions](#)'. A large black arrow points from this checkbox towards the detailed terms of service text on the right side of the interface.

One-Click Upload

We found links to full-texts of some of your publications online. Please review the links carefully and take the appropriate action.

Select all

Modeling Language Learners' Knowledge State: What Are I Students' Free Written Productions Telling Us?

Please click on this link to review and verify that this is the article you upload and that you are the author:
<http://www.j-let.org/~wcf/proceedings/d-044.pdf>

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Upload selected **Do this later**

Select all

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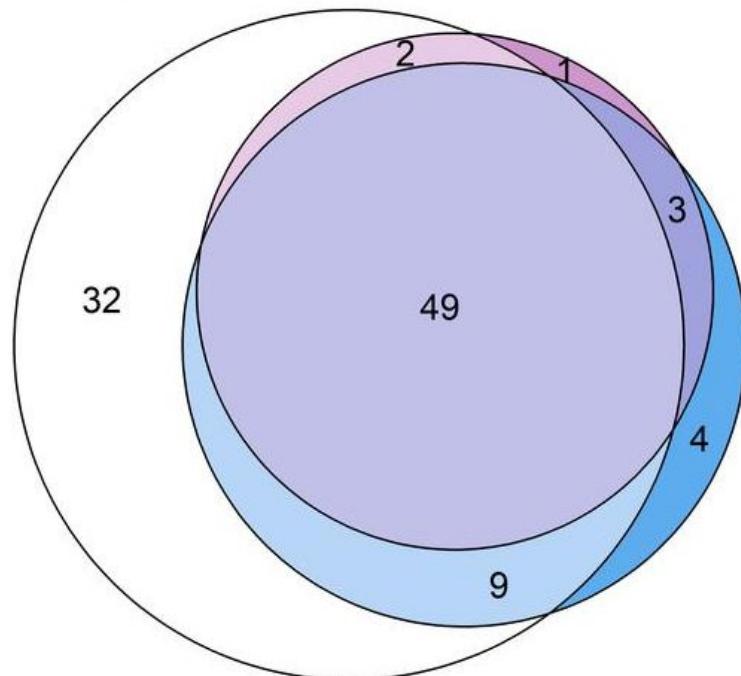


- Authentication is made with username and password from UPC Intranet (the same as Atenea)

<https://bibliotecnica.upc.edu/en/ebib>

Google vs. Scopus vs. WoS

Engineering & Computer Science 606,328 citations to 508 documents



- Google Scholar
- Scopus
- Web of Science

(Martín-Martín, Thelwall, Orduna-Malea & Delgado López-Cózar, 2020)
<https://doi.org/10.1016/j.joi.2018.09.002>

WoS and Scopus

- Include references of article journals, conferences papers, reviews, books, patents, etc.
- General scope, all kind of research fields
- Quality criteria in selection of sources
- Provide information and links to the citations received by publications
- Calculate indicators and metrics based on citations (impact factor, H-index, etc.)

*not everything
is indexed*



Access from UPC

<https://www.recursoscientificos.fecyt.es/>

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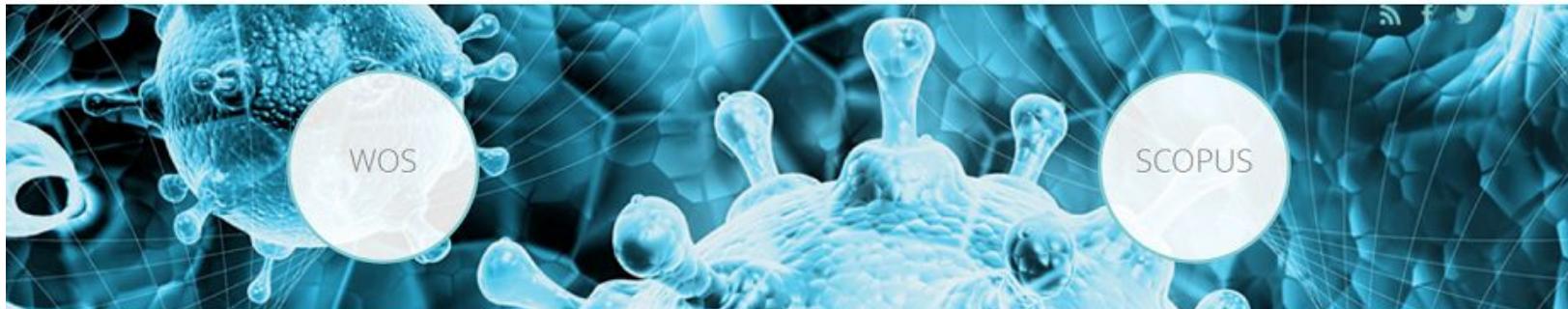


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Scopus (Elsevier)

Database produced by Elsevier that covers abstracts, references and the indexes of the main scientific, technology, medicine and social science journals.

Scopus indexes close to 20,000 quality scientific journals.

Lists the references that authors use in their articles, and lists who has cited the articles of a certain author.



The screenshot shows the Scopus user interface. At the top, there is a navigation bar with icons for help, notifications, and a library. Below the navigation bar is a user profile card with a large orange 'RI' logo, the name 'Ruth Inigo', and the email 'ruth.inigo@upc.edu'. A red arrow points from the text in the following list to this profile card. The main content area contains a sidebar with links: Dashboard, Saved searches, Alerts, Saved lists, Export and reference management settings, and Privacy center. At the bottom of the sidebar are two buttons: 'View account' and 'Sign out'.

- Consult and change your personal profile.
- *Change password*: change the password but not the user name that the system gives to you by default.
- *Export and reference management settings*: determine and/or adjust your preferred export tool.
- Saved searches and lists of records
- Alerts created
- Author groups

Search for documents

Document search

Enter search terms and combine them with Boolean operators

Search
orange juice

E.g., "Cognitive architectures" AND robots

Documents Authors Affiliations Advanced

Article title, Abstract, Keywords

All fields
Article title, Abstract, Keywords
Authors
First author
Source title
Article title
Abstract
Keywords

Limit

Date range (inclusive)

Published All years to Present

Added to Scopus in the last 7 days

Document type ALL

Access type All

Choose the field(s) that you want to search

Limit the search by year of publication and/or type of document



Scopus

Document search

Search Sources Lists SciVal ↗

?

Personal profile

Compare sources >

Search

E.g., "Cognitive architectures" AND robots

Documents Authors Affiliations Advanced

Article title, Abstract, Keywords

Reset form Search

> Limit

Search for publications

Combine queries... e.g. #1 AND NOT #3

1,191 document results

Top of page

You can combine your results

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切换到繁體中文

Русский язык

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Help improve Scopus

Scopus

The screenshot shows the Scopus search results page for the query "TITLE-ABS-KEY (orange AND juice)". The results are currently filtered to show documents.

Key features highlighted:

- Save the search and/or create an alert**: Points to the "Save" and "Set alert" buttons in the top right.
- Current results**: Points to the total count of 7,204 results.
- Title/Abstract/Keywords**: Points to the search term "TITLE-ABS-KEY (orange AND juice)".
- Edit, Save, Set alert**: Points to the "Edit", "Save", and "Set alert" buttons.
- Search within results...**: Points to the search bar for refining results.
- Refine results**: Points to the "Refine results" sidebar with sections for Access type, Year, Author name, and Subject area.
- Access type**: Points to the "Access type" dropdown.
- Year**: Points to the "Year" dropdown.
- Author name**: Points to the "Author name" dropdown.
- Subject area**: Points to the "Subject area" dropdown.
- Agricultural and Biological Sciences**: Points to the first item under Subject area (3,619 results).
- Chemistry**: Points to the second item under Subject area (1,895 results).
- Medicine**: Points to the third item under Subject area (1,544 results).
- Biochemistry, Genetics and Molecular Biology**: Points to the fourth item under Subject area (1,289 results).
- Engineering**: Points to the fifth item under Subject area (776 results).
- Results analysis**: Points to the "Analyze search results" button.
- Citation overview**: Points to the "View citation overview" button.
- Sort options**: Points to the "Sort on" dropdown menu set to "Date (newest)".
- Document title**: Points to the column header for document titles.
- Authors**: Points to the column header for authors.
- Year**: Points to the column header for publication year.
- Source**: Points to the column header for source journal.
- Cited by**: Points to the column header for citation count.
- Locate the full text**: Points to the "View abstract" and "options" buttons for the first result.

Document title	Authors	Year	Source	Cited by
Screening for heat-resistant reference yeast isolate in orange juice	Anapi, G.R., Aba, R.P.M., Gabriel, A.A.	2021	Food Microbiology 94,103639	
NMR-based metabolomics analysis of Calabrian citrus fruit juices and its application to industrial process quality control	Salvino, R.A., Colella, M.F., De Luca, G.	2021	Food Control 121,107619	
Effect of pulsed light treatment on activation kinetics of Escherichia coli (MTCC 433) in fruit juices	Preetha, P., Pandiselvam, R., Varadaraju, N., (...), Balakrishnan, M., Kothakota, A.	2021	Food Control 121,107547	

< Back to results | < Previous 4 of 80 Next >

Export Download Print E-mail Save to PDF Add to List More... >

Options

Food Chemistry • Volume 289, Pages 320 - 327 • 15 August 2019

Document type

Article

Source type

Journal

ISSN

03088146

DOI

10.1016/j.foodchem.2019.03.049

[View more ▾](#)

Mechanisms non-enzymatic browning in orange juice during storage

Paravisini L.^a, Peterson D.G.^a

Save all to author list

^a Department of Food Science and Technology, 317 Parker Food Science & Technology Building, The Ohio State University, 1215 Fyffe Rd., Columbus, 43210, OH, United States

29

Citations in Scopus

79

Views count

[View all metrics >](#)

Abstract
and
additional
information

Citations received
by this document

Cited by 29 documents

The study of volatile products formation from the self-degradation of L-ascorbic acid in hot compressed water

Feng, L. , Yang, Y. , Liu, S.-S.
(2022) *Food Chemistry*

The shelf-life of chestnut rose beverage packaged in PEN/PET bottles under long term storage: A comparison to packaging in ordinary PET bottles

Wang, Z.-C. , Yin, Y.-X. , Ao, H.-P.
(2022) *Food Chemistry*

Characterizing and alleviating the browning of *Chorospindias axillaris* fruit cake during drying

Li, D. , Chen, R. , Liu, J.
(2022) *Food Control*

[View all 29 citing documents](#)

Inform me when this document is cited in Scopus:

[Set citation alert](#)

Related documents according Scopus algorithm

Related documents

Characterization of browning formation in orange juice during storage

Paravisini, L. , Peterson, D.G.
(2016) *ACS Symposium Series*

Role of Reactive Carbonyl Species in non-enzymatic browning of apple juice during storage

Web of Science

A web platform used to consult ISI databases. It is produced by Clarivate Analytics. FECYT is the institution that holds the licence.

A multidisciplinary platform. Contains references from 1900 onwards and is updated weekly.

Contains bibliographic information on over 22,000 journals. It has bibliographic references to conference proceedings, patents and journal summaries. It also includes citations, statistics on scientific output and assessment indicators: the impact factor and the H index.

Web of Science

Access the database

Usuario registrado

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Instituciones federadas en la FECYT

Seleccione su institución

-  Universitat Jaume I
-  Universitat Oberta de Catalunya
-  Universitat Politècnica de Catalunya
-  Universitat Pompeu Fabra

Select the institution

Web of Science: Selecting database

Select
database.

Core Collection
is the main
database

Discover multidisciplinary content
from the world's most trusted global citation database.

DOCUMENTS RESEARCHERS

Search in: All Databases ^ Collections: All ▾

DOCUMENTS

All Databases

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KCI-Korean Journal Database

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SciELO Citation Index

+ Add row

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Search the world's leading scholarly journals, books, and proceedings in the sciences, social sciences, and arts and humanities and navigate the full citation network.

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- Search across all authors and all author affiliations.
- Track citation activity with Citation Alerts.
- See citation activity and trends graphically with Citation Report.
- Use Analyze Results to identify trends and publication patterns.

Search

Data updated 2021-12-20

Web of Science: Register and sign in

Register and Sign in to save searches, download results, create lists and receive alerts

The screenshot shows the Web of Science homepage. At the top, there is a navigation bar with links for "Search", "Marked List 1201", "History", and "Alerts". On the right side, there is a user profile for "Ruth Inigo" with options for "Settings" and "Close Session". A large purple banner at the bottom features the text "Discover multidisciplinary content from the world's most trusted global citation database."

Web of Science™ Search Marked List 1201 History Alerts

Ruth Inigo Settings Close Session

Discover multidisciplinary content
from the world's most trusted global citation database.

Web of Science: simple search

To search documents, activated by default

Select the field to search.

Topic (title, abstract & keywords) is a good option

Select Boolean Operator

Select Publication Dates

The screenshot shows the Web of Science search interface. At the top, there are two tabs: 'DOCUMENTS' (selected) and 'RESEARCHERS'. Below the tabs, search dropdowns show 'Search in: All Databases' and 'Collections: All'. The main search area has two fields: 'Topic' containing 'rockfall* landslide' and another 'Topic' field containing 'brasil*'. A third field, 'Publication Date', is highlighted with a purple box and a minus sign, indicating it's being edited. A dropdown menu for 'Publication Date' lists options like 'All years (1900 - 2022)', 'Last 5 years', 'Custom', and various time ranges from 'Current week' to 'Custom'. A red box highlights the 'Publication Date' field, and another red box highlights the 'Custom' option in the dropdown menu.

527 results from Web of Science Core Collection for:

rockfall* OR rock-fall OR "rocks fall" (Topic) and alps (All Fields)

[Copy query link](#)

Publications

You may also like...

Refine by years, type of document, language, author, or adding new words to your search

Quick filters are useful to select reviews

Refine results

Search within results for...

Quick Filters

<input type="checkbox"/>	 Review Articles	13
<input type="checkbox"/>	 Early Access	3
<input type="checkbox"/>	 Open Access	180

Publication Years

<input type="checkbox"/>	2021	23
<input type="checkbox"/>	2020	33
<input type="checkbox"/>	2019	33
<input type="checkbox"/>	2018	25
<input type="checkbox"/>	2017	46

[See all >](#)

0/527

[Add To Marked List](#)

[Export](#) ▾

- 1 USING CLIMBER'S GUIDEBOOKS TO ASSESS ROCK FALL PATTERNS OVER LARGE SCALES: AN EXAMPLE FROM THE SWISS ALPS

Temme, AJAM

Dec 2015 | [GEOGRAFISKA ANNALER SERIES A-PHYSICAL GEOGRAPHY](#) 97 (4), pp.793-807

High-mountain geomorphic processes enjoy increasing scientific and societal interest. This is because than elsewhere and because their effects on infrastructure and tourism are significant. Rock fall is am its presumed intimate relation with permafrost, which is widely degrading. However, over decadal ter

[+ opciones](#) [Full Text at Publisher](#) ***

- 2 High Elevation Rock Falls and Their Climatic Control: a Case Study in the Conca

Chiarle, M; Covello, V; (...) Nigrelli, G

12th International IAEG Congress

2015 | [ENGINEERING GEOLOGY FOR SOCIETY AND TERRITORY, VOL 1: CLIMATE CHANGE AND ENGINEER](#)

One of the impacts of climate warming in recent years is the evident increase of the number of rock falls these events have small magnitudes and thus are rarely reported and documented, even less so in the approach to analyze of the relationships between climate warming and rock slope instability. On the o

[+ opciones](#) [Full Text at Publisher](#) ***

Web of Science: record information

Full text options

Free Full Text from Publisher Full Text Links Export Add To Marked List 1 of 6

Monitoring of Sobradinho **landslide** (Brasilia, Brazil) and a prototype vertical slope by time-lapse interferometry

By: Hussain, Y (Hussain, Yawar)^{1, 2}; Cardenas-Soto, M (Cardenas-Soto, Martin)³; Uagoda, R (Uagoda, Rogerio)⁴; Martino, S (Martino, Salvatore)^{5, 6}; Rodriguez-Rebolledo, J (Rodriguez-Rebolledo, Juan)¹; Hamza, O (Hamza, Omar)⁷; Martinez-Carvajal, H (Martinez-Carvajal, Hernan)⁸
View Web of Science ResearcherID and ORCID (provided by Clarivate)

BRAZILIAN JOURNAL OF GEOLOGY
Volume: 49 Issue: 2
Article Number: e20180085
DOI: 10.1590/2317-4889201920180085
Published: 2019
Document Type: Article

Abstract
The application of geophysical monitoring technologies may offer an opportunity to understand the dynamic of slopes in response to factors triggering their instability. In this study, Ambient Noise Interferometry was used as a monitoring approach on a man-made reduced-scale vertical slope and on a natural-scale **landslide** in Sobradinho (Brazil), under the influence of mechanical stress and rainfall, respectively. For both experiments, we adopted similar data acquisition system and processing workflow. After preprocessing of ambient seismic noise, the time-lapse changes were determined in terms of relative velocity changes using the moving window cross spectral technique. For the vertical slope, terrestrial laser scanning was also performed to detect crack or fissure generation. The prototype experiment results showed a decreasing trend of relative velocity changes and reached a minimum value of -0.6% at the end of the experiment. No change was detected on the digital elevation model that was computed from terrestrial laser scanning images, due to the absence of centimeter scale superficial fissures. At natural scale (Sobradinho **landslide**), no significant variation in relative velocity changes was detected for the rainy and non-rainy days, mainly because of the inadequate change in the degree of saturation, which was found within a relatively short period of data acquisition.

Keywords
Author Keywords: Ambient seismic noise; rainfall; clayey **landslide**; terrestrial laser scanning
Keywords Plus: SEISMIC INTERFEROMETRY; SWISS ALPS; NOISE; STRESS; FAULT

Author Information
Corresponding Address: Hussain, Yawar (corresponding author)
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Corresponding Address: Hussain, Yawar (corresponding author)
▼ Univ Brasilia, Inst Geosci, Brasilia, DF, Brazil
Addresses:
▼ 1 Univ Brasilia, Dept Civil & Environm Engn, Brasilia, DF, Brazil
▼ 2 Univ Brasilia, Inst Geosci, Brasilia, DF, Brazil
▼ 3 Univ Nac Autonoma Mexico, Engr Fac, Mexico City, DF, Mexico
— 4 Univ Brasilia, Dept Civil & Environm Engn, Brasilia, DF, Brazil

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2 Citations
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55 Cited References
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XXIII ISPRS CONGRESS, COMMISSION VII
Tomasz, O; Anita, KP; Michal, D; et al.
GEOMORPHOMETRIC MONITORING OF ACTIVE SLOPES AND THEIR IMPACT ON POST-GLACIER LAKE IN THE TATRA MOUNTAINS
GEOCONFERENCE ON INFORMATICS, GEONFORMATICS AND REMOTE SENSING - CONFERENCE PROCEEDINGS, VOL II
Hallmark, AJ; Maurer, GE; Litvak, ME; et al.
Watching plants' dance: movements of live and dead branches linked to atmospheric water demand
ECOSPHERE
Huang, H; Yao, HJ; van der Hilst, RD;

Web of Science: journal information

Impact factor
and Quartile

□ 4 Monitoring of Sobradinho landslide (Brasilia, Brazil) and a prototype vertical slope by time-lapse interferometry
[Hussain, Y; Cardenas-Soto, M; \(...\); Martinez-Carvajal, H](#)
2019 | BRAZILIAN JOURNAL OF GEOLOGY 49 (2)

BRAZILIAN JOURNAL OF GEOLOGY

Journal Impact Factor™

2020	Five Year
1.259	1.967

□ 5  

JCR Category	Category Rank	Category Quartile
GEOSCIENCES, MULTIDISCIPLINARY <i>in SCIE edition</i>	175/200	Q4

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To understand the dynamic of slopes in response to factors triggering ...
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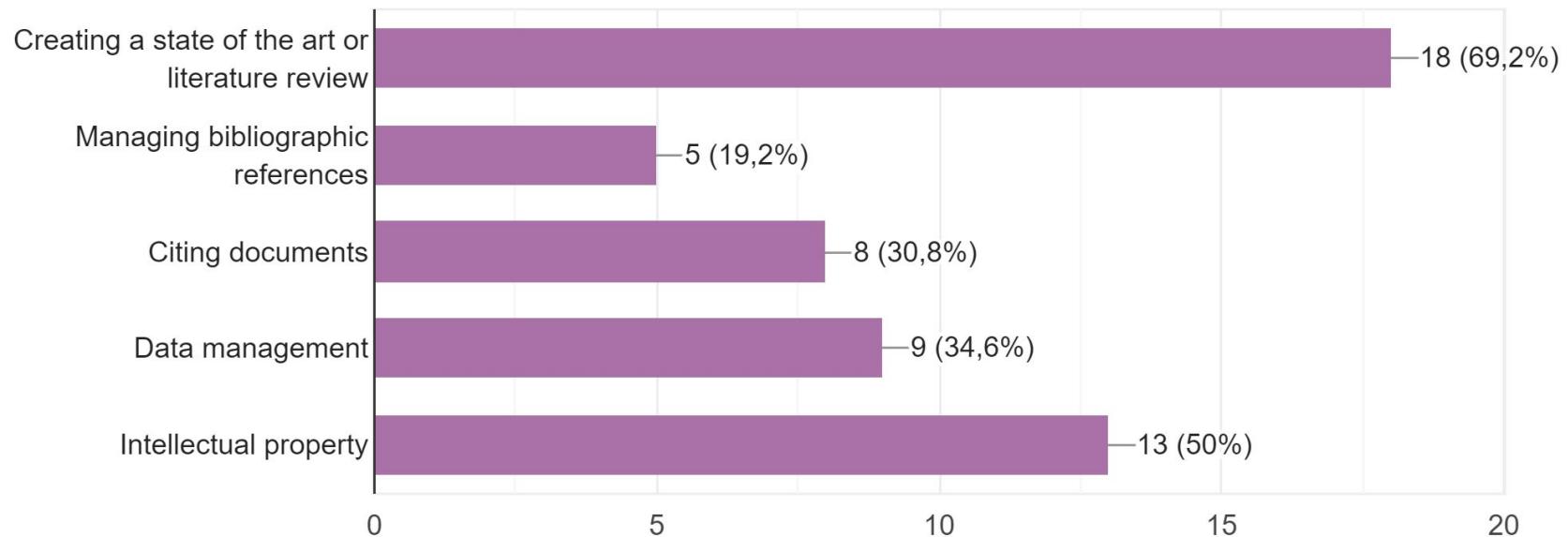
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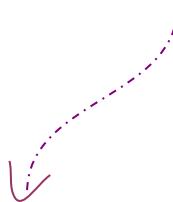
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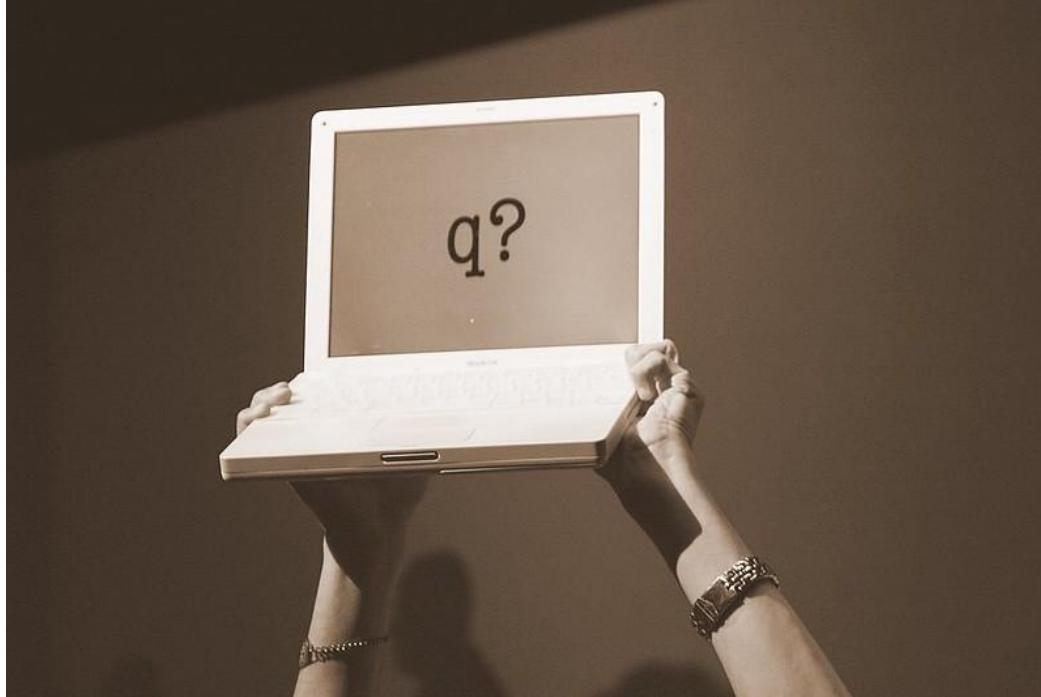


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Some useful links

- **On information retrieval**

Martín-Martín, A., Thelwall, M., Orduna-Malea, E., & Delgado López-Cózar, E. (2020). Google Scholar, Microsoft Academic, Scopus, Dimensions, Web of Science, and OpenCitations' COCI: a multidisciplinary comparison of coverage via citations. *Scientometrics*, 126(1), 871-906. doi: 10.1007/s11192-020-03690-4

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- **Scopus & WoS videotutorials**

Discover trends using analyze results. Web of Science. (n.d.). Retrieved December 15, 2021, from
<https://videos.webofsciencegroup.com/watch/NqbQxhsTAHF8vb5xYnAiC4>

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<https://www.youtube.com/watch?v=0oQ5qsDMoFE>

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- **On selecting publications for a review**

Codina L. *Cómo llevar a cabo revisiones bibliográficas sistematizadas*. Barcelona: Universitat Pompeu Fabra, Departament de Comunicació, Programa de Doctorat en Comunicació; 2021. 28 p. (#UPFCommResearch Basic training materials for PhD students, núm. 1). DOI: 10.31009/upfcommresearch.2021.01 <https://repositori.upf.edu/handle/10230/48589>

Salter, Jodie. (2016, March 14). *Writing the literature review: A banquet hall analogy*. YouTube. Retrieved December 15, 2021, from https://www.youtube.com/watch?v=QE_Us8UjS64

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