

# **Lecture 11**

## **Bibliography management**

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November 17, 2022

# Where to search literature?

- Search in citation index database
  - Web of science
  - Scopus
- Search engine tools designed for academic research
  - Google Scholar
  - Microsoft Academic Search
  - Crossref

# Search strategy

- Boolean operator: AND, OR, NOT
- Wildcard: use wildcard (\*) in place of unspecified characters;
- Exact match: enclose phrase in quotation marks for exact match
- Parenthesis: use parenthesis to group conditions together.
- Example: (“soil respiration” OR “soil carbon flux”) AND warming NOT incubation will gives references that
  - contains the term “warming”
  - contains the term “soil respiration” or “soil carbon flux”
  - do not contain the term “incubation”

# Where to search literature?

- Functionalities of Web of Science search

The screenshot displays the Web of Science search results page. At the top, the Clarivate logo is on the left, and 'English' and 'Products' are on the right. The main header shows 'Web of Science' and a search bar. Below the search bar, the results are for the query: '("soil respiration" OR "soil carbon flux") AND warming NOT incubation (Topic)'. The results are sorted by Relevance, showing 1 of 27 pages. The left sidebar contains filters for 'Refine results', 'Filter by Marked List', 'Quick Filters' (Highly Cited Papers, Review Article, Open Access), 'Publication Years' (2022, 2021, 2020, 2019, 2018), and 'Document Types' (Article, Other, Meeting, Review Article, Book). The main content area lists three search results. The first result is 'Effects of simulated warming on soil respiration to XiaoPo lake' by Zhao, SK; Chen, KL; Mao, YH. The second result is 'Effects of warming on soil respiration during the non-growing seasons in a semiarid temperate steppe' by Miao, Y; Liu, MZ; Han, SJ. The third result is 'The whole-soil carbon flux in response to warming' by Pries, CEH; Castanha, G; Torn, MS. Each result shows the title, authors, journal, and a brief abstract. The 'Export search result to files' button is highlighted with an arrow. The 'Check citation data' button is also highlighted with an arrow.

Clarivate

English Products

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Sign In Register

Search > Results for ("soil respiration" OR "soil carbon flux") AND warming NOT incu...

1,330 results from All Databases for:

Q ("soil respiration" OR "soil carbon flux") AND warming NOT incubation (Topic)

Analyze Results Citation Report Create Alert

Copy query link

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Publications You may also like...

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Publication Years

2022 86

2021 96

2020 106

2019 100

2018 107

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Document Types

Article 1,305

Other 188

Meeting 61

Review Article 57

Book 18

0/1,330 Add To Marked List Export

Sort by: Relevance < 1 of 27 >

1 Effects of simulated warming on soil respiration to XiaoPo lake

Zhao, SK; Chen, KL; Mao, YH

3rd International Conference on Advances in Energy Resources and Environment Engineering (ICAESEE) 2018 | 3RD INTERNATIONAL CONFERENCE ON ADVANCES IN ENERGY RESOURCES AND ENVIRONMENT ENGINEERING 113

The main flux of carbon cycling in terrestrial and atmospheric ecosystems is soil respiration, and soil respiration is one of the main ways of soil carbon output. This is of great significance to explore the dynamic changes of soil respiration rate and its effect on temperature rise, and the correlation between environmental factors and soil respiration. In this study, we used the open soil car

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1 Citation

22 References

Related records

2 Effects of warming on soil respiration during the non-growing seasons in a semiarid temperate steppe

Miao, Y; Liu, MZ; Han, SJ

Jun 2020 | JOURNAL OF PLANT ECOLOGY 13 (3), pp.288-294

Aims The response pattern of terrestrial soil respiration to warming during non-growing seasons is a poorly understood phenomenon, though many believe that these warming effects are potentially significant. This study was conducted in a semiarid temperate steppe to examine the effects of warming during the non-growing seasons on soil respiration and the underlying mechanisms associated therewith

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14 Citations

64 References

Related records

3 The whole-soil carbon flux in response to warming

Pries, CEH; Castanha, G; Torn, MS

Mar 31 2017 | SCIENCE 355 (6332), pp.1420-1422

Soil organic carbon harbors three times as much carbon as Earth's atmosphere, and its decomposition is a potentially large climate change feedback and major source of uncertainty in climate projections. The response of whole-soil profiles to warming has not been tested in situ. In a deep warming

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258 Citations

33 References

Related records

# Search strategy

- Follow scientists with shared research interests
  - Google Scholar: useful for checking one scientists' complete publication records;
  - ResearchGate: social network like site useful for following scientists and research topics of interests;

**Hong Zhang**  
College of Ecology, Lanzhou University  
Verified email at lzlu.edu.cn · [Homepage](#)  
[Evolution](#) [Gene expression](#) [Functional Genomics](#)

**Cited by**

TITLE	CITED BY	YEAR
<a href="#">The concordance between the evolutionary trend and the clinical manifestation of the two SARS-CoV-2 variants</a> B Hu, R Liu, X Tang, Y Pan, M Wang, Y Tong, G Ye, G Shen, R Ying, A Fu, ... National Science Review 8 (8), nwa0273	1	2021
<a href="#">Determinants of genome-wide distribution and evolution of uORFs in eukaryotes</a> H Zhang, Y Wang, X Wu, X Tang, C Wu, J Lu Nature communications 12 (1), 1-17	17	2021
<a href="#">Combinatorial regulation of gene expression by uORFs and microRNAs in Drosophila</a> H Zhang, Y Wang, X Tang, B Dou, Y Sun, Q Zhang, J Lu Science Bulletin 66 (3), 259-259	3	2021
<a href="#">The evolutionary arms race between transposable elements and piRNAs in Drosophila melanogaster</a> S Luo, H Zhang, Y Duan, X Yao, AG Clark, J Lu BMC Evolutionary Biology 20 (1), 1-18	23	2020
<a href="#">On the origin and continuing evolution of SARS-CoV-2</a> X Tang, C Wu, X Li, Y Song, X Yao, X Wu, Y Duan, H Zhang, Y Wang, ... National science review 7 (6), 1012-1023	1647	2020
<a href="#">Recent advances in ribosome profiling for deciphering translational regulation</a> Y Wang, H Zhang, J Lu Methods 178, 46-54	11	2020
<a href="#">Function and evolution of upstream ORFs in eukaryotes</a> H Zhang, Y Wang, J Lu Trends in biochemical sciences 44 (9), 752-754	65	2019
<a href="#">Response to comment on "microRNAs in the same clusters evolve to coordinately regulate functionally related genes"</a> Y Wang, H Zhang, J Lu Molecular Biology and Evolution 36 (8), 1844-1845	3	2019
<a href="#">Biosynthetic energy cost for amino acids decreases in cancer evolution</a> H Zhang, Y Wang, J Lu, H Chen, X He, H Zhang, H Liang, J Lu Nature communications 9 (1), 1-15	22	2018
<a href="#">Genome-wide maps of ribosomal occupancy provide insights into adaptive evolution and regulatory roles of uORFs during Drosophila development</a> H Zhang, S Dou, F He, J Luo, L Wei, J Lu PLoS biology 16 (7), e2005903	45	2018
<a href="#">Linkage of A-to-I RNA editing in metazoans and the impact on genome evolution</a> Y Duan, S Dou, H Zhang, C Wu, M Wu, J Lu Molecular biology and evolution 35 (1), 132-148	8	2018
<a href="#">Adaptation of A-to-I RNA editing in Drosophila</a> Y Duan, S Dou, S Luo, H Zhang, J Lu PLoS genetics 13 (3), e1005648	46	2017
<a href="#">microRNAs in the same clusters evolve to coordinately regulate functionally related genes</a> Y Wang, J Luo, H Zhang, J Lu Molecular biology and evolution 33 (9), 2232-2247	148	2016

Articles 1-13 [SHOW MORE](#)

**Huiying Liu**  
was cited in a publication 40s ago

**Can mycorrhizal fungi alleviate plant community instability caused by increased precipitation in arid ecosystems?**  
Article · June 2022 · Plant and Soil · 102 Reads · 1 Citation  
Yangyang Jia · Tao Zhang · Florian Walder [L.] · Gu Feng

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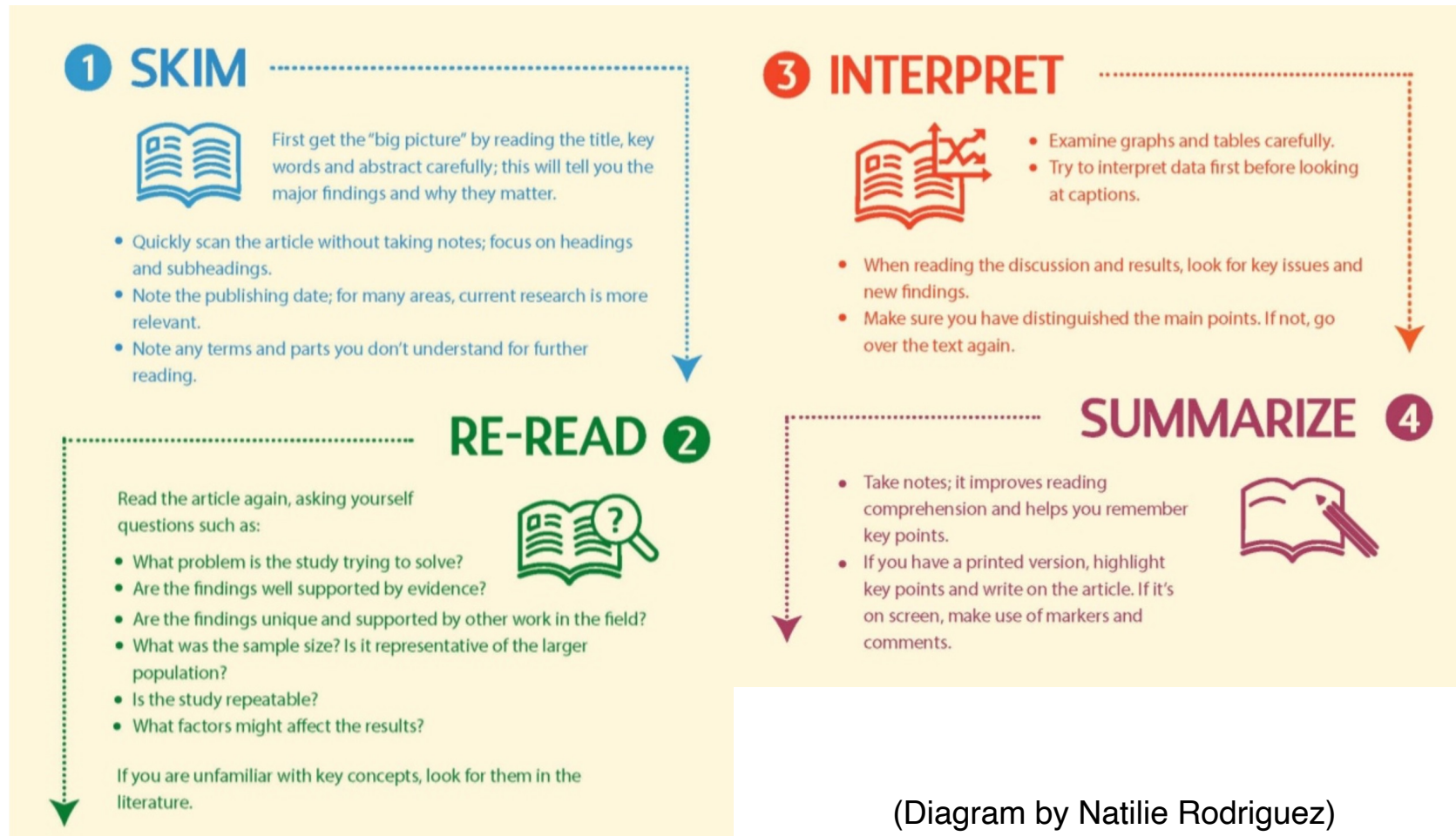
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# Read papers

- Purpose for reading a paper determines how you read it;
- **Quick reading**: useful for overviewing a topic of interests and stay up to data with the latest research front;
- **Deep reading**: useful for understanding a particular experiment, methods

# Read papers

- A common strategy for deep reading a paper:



(Diagram by Natilie Rodriguez)

# Recommendations on reading

- **Reading with a theme:** A common difficulty for beginning graduate student is forming a “big picture” of a research topic. Read relevant papers with a common theme help you gain a broad and general understanding of the topic;
- **Taking notes:** writing down useful information you came across in papers to form your own notes. Organizing them as essays centered around a topic is extremely useful when you writing papers;
- **Setting reading time:** reserve a few hours a week specifically for reading;
- **Organizing your literature:** organize the papers that you think are valuable to you. Having a personal library of relevant papers is handy when you need to revisit them or writing papers.



# Proper citation

- Reference should support or be in accordance with the statement made by the citing author;
- Accurate citation is part of being a rigorous researcher;
- Citation allows the reader to trace the flow of evidence, serving as a gateway to relevant literature. Accurate citation ensures that your paper is useful to readers;
- Careful citation helps keep you from alienating those evaluating your paper.

# Proper citation

- Inaccurate citation is a prevalent, but often overlooked, issue in scientific writing.

**Table 4 Citation inaccuracies**

Citation inaccuracies	Total, <i>n</i> (%)	Feasibility study, <i>n</i> (%)	Verification set, <i>n</i> (%)
Inaccurate citations, <i>n</i> (%)	688/7438 (9.2)	183/2,526 (7.2)	505/4,912 (10.3)
Articles with inaccurate citations, <i>n</i> (%)	620/4535 (13.7)	171/1,540 (11.1)	449/2,995 (15.0)
Type of citation error, <i>n</i> (%) <sup>*</sup>			
Citation of nonexistent finding	264 (38.4)	86 (47.0)	178 (35.2)
Inaccurate interpretation of findings	106 (15.4)	39 (21.3)	67 (13.3)
Inaccurately cited numerical data/results	114 (16.6)	16 (8.7)	98 (19.4)
Wrong context	41 (6.0)	15 (8.2)	26 (5.1)
Citation of quoted findings of another source	104 (15.1)	11 (6.0)	93 (18.4)
Inaccurately cited method	34 (4.9)	9 (4.9)	25 (4.9)
Citation of nonexistent numerical data/results	18 (2.6)	6 (3.3)	12 (2.4)
Reference listed in bibliography but not cited in the text	6 (0.9)	1 (0.5)	5 (1.0)

(Pavlovic et al 2021, Clinical Science)

# Proper citation

- Inaccurate citation occur for many reasons. Chain of inaccurate citation seems to be a prominent one.

**Table 5** Factors associated with inaccurate citations

Independent variable	Univariate			Multivariate		
	b	SE	P	b	SE	P
Review article	0.22	0.09	<b>0.023</b>	0.22	0.09	<b>0.022</b>
Time to citation (years)	0.19	0.08	<b>0.018</b>	0.23	0.08	<b>0.005</b>
Number of authors	−0.05	0.06	0.340			
Self-citation	0.08	0.14	0.548			
Impact factor, Yes	−0.26	0.13	<b>0.048</b>			
Citation style, Vancouver or mixed	−0.14	0.15	0.373			
Number of citations of source article, >1	0.59	0.09	<b>&lt;0.001</b>	0.60	0.09	<b>&lt;0.001</b>
Reference count	0.11	0.06	0.057			

Data were analyzed by multilevel regression models for binary data, with citation inaccuracy (yes vs. no) as the dependent variable. b, regression coefficient; P, P-value; SE, standard error.

(Pavlovic et al 2021, Clinical Science)

# Best practices for citation

- Read and understand a paper before citing it;
- Statements should be verified against original papers, not indirect sources;
- Cite original research instead of abstracts or narrative reviews
- When multiple supporting citations are available, cite more informative studies with stronger designs.

# Reference management software

- Bibliography management software help you **organize references** and **format citation** in papers.
- Typical functionalities of reference management software:
  - Import citation information from database;
  - Organize papers in libraries or collections;
  - Store and annotate PDFs of the papers;
  - Synchronize papers to online storage space;
  - Produce formatted citation in a variety of styles;
  - Work with word processing software to facilitate in-text citation

# Reference management software

- Bibliography information can often be imported directly from website, but manual curation is often needed for accuracy.
- Common caveats include:
  - incomplete page numbers
  - upper or lower case
  - text format in the title (e.g. species name, chemical formula)
  - journal name abbreviation ([list of journal title abbreviation](#))

# Common reference management software

- Many citation management software are available. They often share similar functionalities. Try them and choose one that works for you.
- Some common reference management software:
  - Endnote
  - Mendeley
  - Zotero
  - Refworks
  - JabRef
  - Bibdesk
  - NoteExpress