MIAE PhD Library Seminar

Fall 2019

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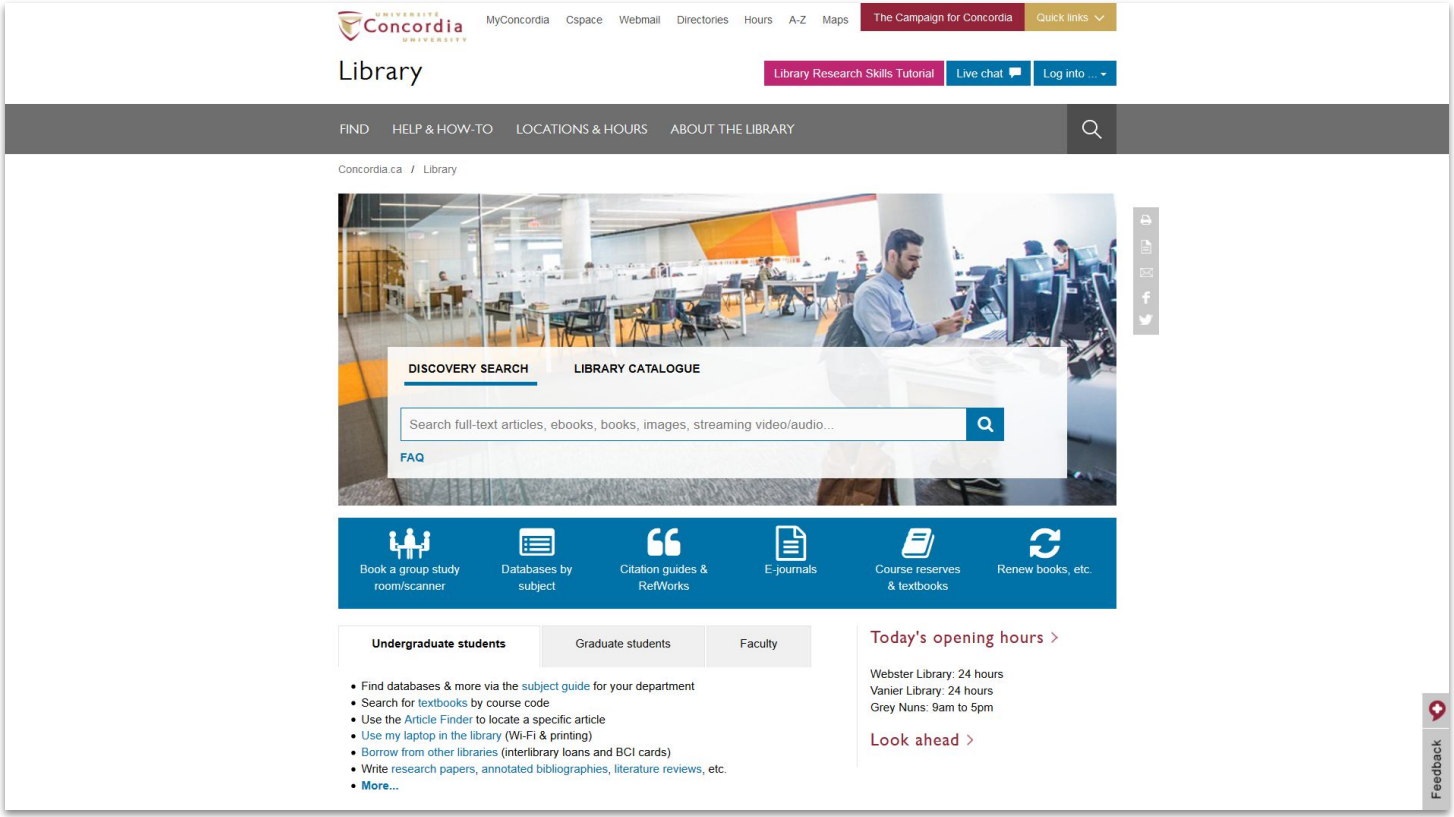
Today

- Introduction
- The literature review
- Literature search tools
    - Databases
    - Zotero
- Search strategies
- Accessing articles, books, and other resources
- Citing
- Getting help

Introduction



The literature review

The literature review

“The literature review is a written overview of major writings and other sources on a selected topic. Sources covered in the review may include scholarly journal articles, books, government reports, Web sites, etc. The literature review provides a description, summary and evaluation of each source. It is usually presented as a distinct section of a graduate thesis or dissertation.”

https://library.concordia.ca/help/writing/literature-review.php

Why do a literature review?

- To become more knowledgeable
- Demonstrate your knowledge
- Identify key researchers, publications, and methodologies
- Identify holes in knowledge
- Identify keywords/subject vocabulary
- Helps to delimit the research problem
- Avoid areas already investigated

Justus J. Randolph. “A Guide to Writing the Dissertation Literature Review” *Practical Assessment, Research & Evaluation* 14.13, 2009.

TABLE OF CONTENTS

Wang, Wenping. "A Study of Force-Motion and Vibration Transmission Properties of Seated Body Under Vertical Vibration and Effects of Sitting Posture." Concordia University (Canada), 2007.

Table 1.1: Summary of experimental conditions employed in different studies.

Authors	Subject			Excitation			Reported Functions
	Number and gender	Body mass (kg)	Posture	Type	Level	Frequency Range(Hz)	
Coermann (1960)[22]	8 males	70-99	Standing, sitting with feet not supported, no backrest	Sine	0.1, 0.2 and 0.3g	1-20	DPMI and STHT
Vogt et al., (1969)[24]	10 males	79(mean)	Erect sitting, loosely restrained, feet supported, but not vibrated	Sine	0.5g with increased gravity of 1, 2 and 3g	2-15	DPMI, STHT
Suggs et al., (1970)[25]	11 males	58-90	Sitting upright with hands in lap, feet supported, no backrest	Sine	0.10g peak to peak	1.75-10	DPMI
Miwa (1974)[23]	5 males	50-76	Standing; kneeling;sitting erect and relaxed, feet not vibrated	Sine	0.1g r.m.s	3-200	DPMI
Griffin (1975)[26]	12 males	60-88	No backrest	Sine	0.2-0.4m s^{-2} r.m.s	7-75	STHT
Cohen et al., (1977)[27]	6 males	55-82	Comfortable neutral sitting posture; Tractor non-cushioned seat; no backrest	Sine	0.69 ms^{-2} r.m.s	2.5-5	STHT
Mertens (1978)[28]	6 males 3 females	57-90	Upright sitting with feet not supported	Sine	0.4g r.m.s with increased gravity of 1,2, 3 and 4g	2-20	DPMI STHT
Griffin et al., (1978)[29]	56 males 28 females 28 children	Not stated	Sitting, increasing height of footrest, no backrest	Sine	1 ms^{-2} r.m.s	4 and 16	STHT
Griffin et al., (1979)[30]	18 males 18 females	Not stated	Comfortable; upright; relaxed; stiff, Increasing height of footrest, no backrest	Sine	1 ms^{-2} r.m.s	1-100	STHT

Wang, Wenping. "A Study of Force-Motion and Vibration Transmission Properties of Seated Body Under Vertical Vibration and Effects of Sitting Posture." Concordia University (Canada), 2007.

REFERNCES

1. Griffin, M.J., 1990. Handbook of Human Vibration, Academic Press Limited, London.
2. Seidel, H., 2005. On the relationship between whole-body vibration exposure and spinal health risk. Industrial Health, 43, 361-377.
3. Seidel, H., Blüthner R., Hinz B., Schust, M., 1998. On the health risk of the lumbar spine due to whole-body vibration — theoretical approach, experimental data and evaluation of whole-body vibration, Journal of Sound and Vibration 215 (4), 723-741.
4. Bovenzi, M., Hulshof, C. T. J., 1998. An updated review of epidemiologic studies on the relationship between exposure to whole-body vibration and low back pain. Journal of Sound and Vibration 215 (4), 595-612.
5. Hulshof, C., Van Zanten, B.V., 1987. Whole-body vibration and low back pain. A review of epidemiologic studies. International Archives of Occupational and Environmental Health 59, 205-220.
6. Magnusson, M. L., Pope, M. H., Hulshof, C., and Bovenzi, M., 1998. Development of a protocol for epidemiological studies of whole-body vibration and musculoskeletal disorders of the low back. Journal of Sound and Vibration 215 (4), 643-651.
7. Seidel, H., Heidel, R., 1986. Long term effects of whole-body vibration — a critical survey of literature. International Archives of Occupational and Environmental Health 58, 1-26.
8. Boileau, P.-É., 1995. A study of secondary suspension and human driver response to whole-body vehicular vibration and shock. Ph.D., Thesis, Concordia University, Montreal, Canada.
9. Wu, X., 1998. Study of driver-seat interactions and enhancement of vehicular ride vibration environment. Ph.D. Thesis, Concordia University, Montreal, Canada.
10. Boileau, P.-É. Wu, X. and Rakheja, S., 1998. Definition of a range of idealized values to characterize seated body biodynamic response under vertical vibration. J. Sound and Vibration 215 (4), 841-862

Books

Literature reviews

Theses/dissertations

Wang, Wenping. "A Study of Force-Motion and Vibration Transmission Properties of Seated Body Under Vertical Vibration and Effects of Sitting Posture." Concordia University (Canada), 2007.

12. International Organization for Standardization, ISO-5982: 2001. Mechanical vibration and shock range of idealized values to characterize seated-body biodynamic response under vertical vibration.

13. Rakheja et al., 1997. Estimation of vibration transmission of the seat-human system though measurements of the seat-load system. Research Report, CONCAVE Research Center, Concordia University.

14. Bendat, J.S., Piersol A.G., 1992. Random data-analysis and measurement procedures. New York, John Wiley & Sons.

15. Lee, R.A., Pradko, F., 1968. Analytical analysis of human vibration, SAE paper 680091.

16. International Organization for Standardization ISO 2631-1, 1997. Mechanical vibration and shock – evaluation of human exposure to whole – body vibration. Part 1, General Requirements.

17. Lewis, C.H., Griffin, M.J., 1998. A comparison of evaluations and assessments obtained using alternative standards for predicting the hazards of whole-body vibration and repeated shock. Journal of Sound and Vibration, 215 (4), 915-926.

18. Mansfield, N.J., Holmlund, P., Lundström, R., 2000. Comparison of subjective responses to vibration and shock with standard analysis methods and absorbed power. Journal of Sound and Vibration 230 (3), 477-491.

19. Boileau, P.E. Rakheja, S. Yang, X. and Stiharu, I., 1997. Comparison of biodynamic response characteristics of various human body models as applied to seated vehicle drivers. Noise & Vibration Worldwide, October, 7-14.

20. Seidel, H., Griffin, M.J., 2001. Modeling the responses of the spinal system to whole-body vibration and repeated shock. Clinical Biomechanics 16 (Supplement 1), S3–S7.

21. Griffin, M.J., 2001. The validation of biodynamic models. Clinical Biomechanics 16 (Supplement 1), S81–S92.

22. Coermann, R.R., 1962. The Mechanical Impedance of the Human Body in Sitting and Standing Position at low frequencies. Human Factors, 227-253.

23. Miwa, T., 1975. Mechanical impedance of human body in various postures.

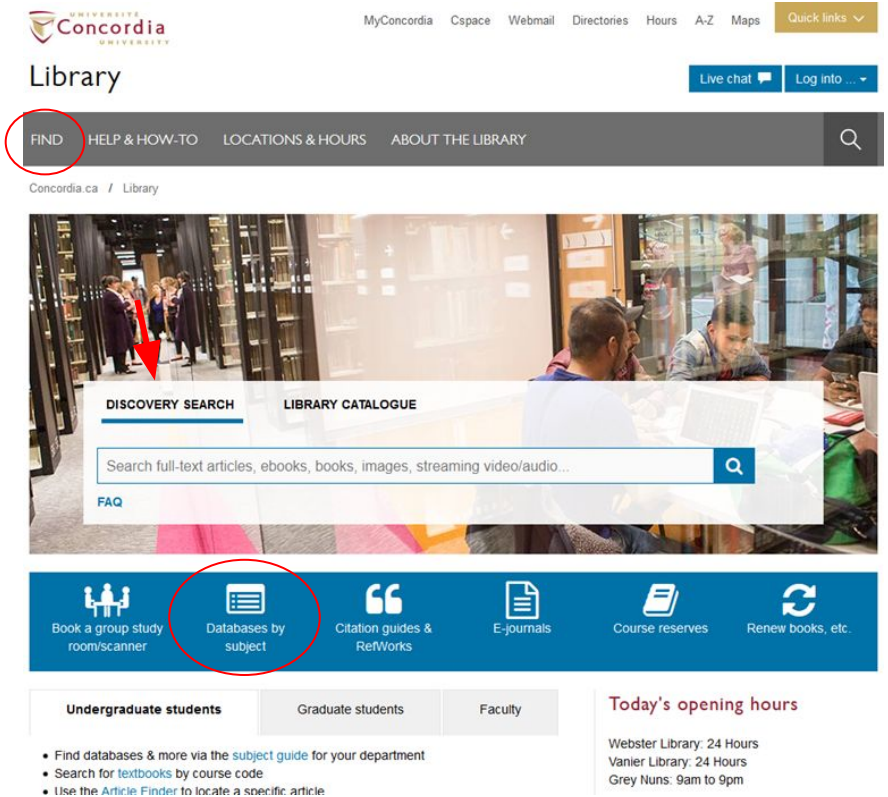
Standards

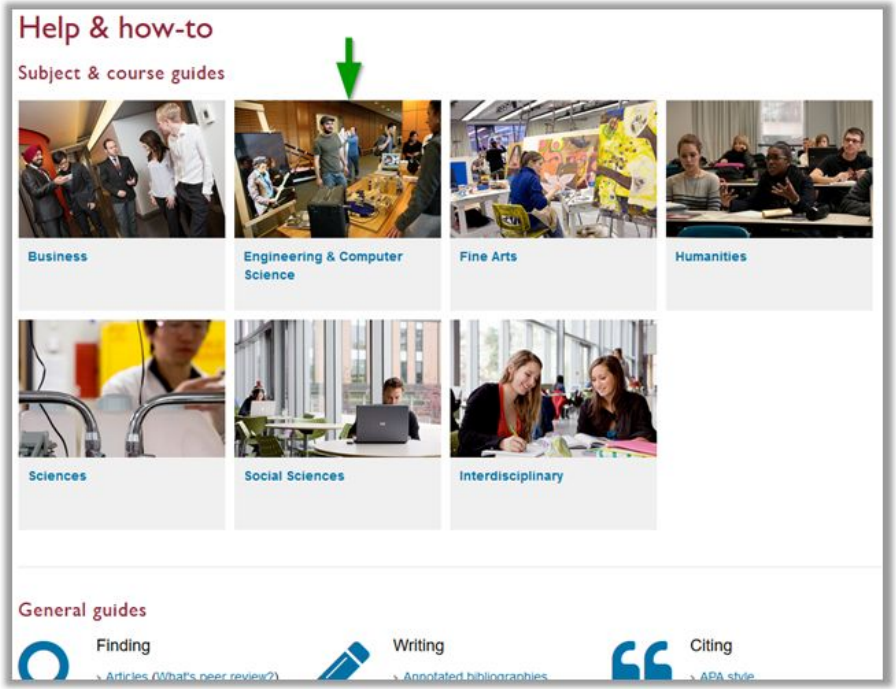
Peer reviewed/ scholarly journal articles

Wang, Wenping. "A Study of Force-Motion and Vibration Transmission Properties of Seated Body Under Vertical Vibration and Effects of Sitting Posture." Concordia University (Canada), 2007.

Literature search tools: databases

How to find and access literature search tools





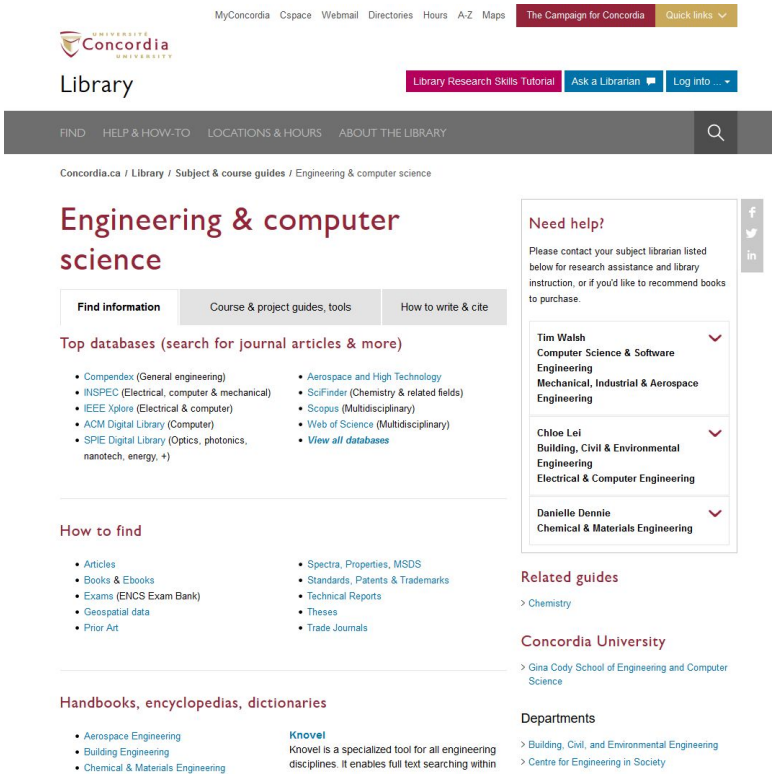
Engineering & Computer Science Subject Guide

- Links to **databases**, books, ebooks, data, standards, technical reports, etc.
- Handbooks, encyclopedias, and dictionaries
- Course and project guides
- Writing and **citation guides** (IEEE, Zotero)
- **Librarian contact information**

From library website:

Help & How-To -> Subject & course guides -> Engineering & Computer Science

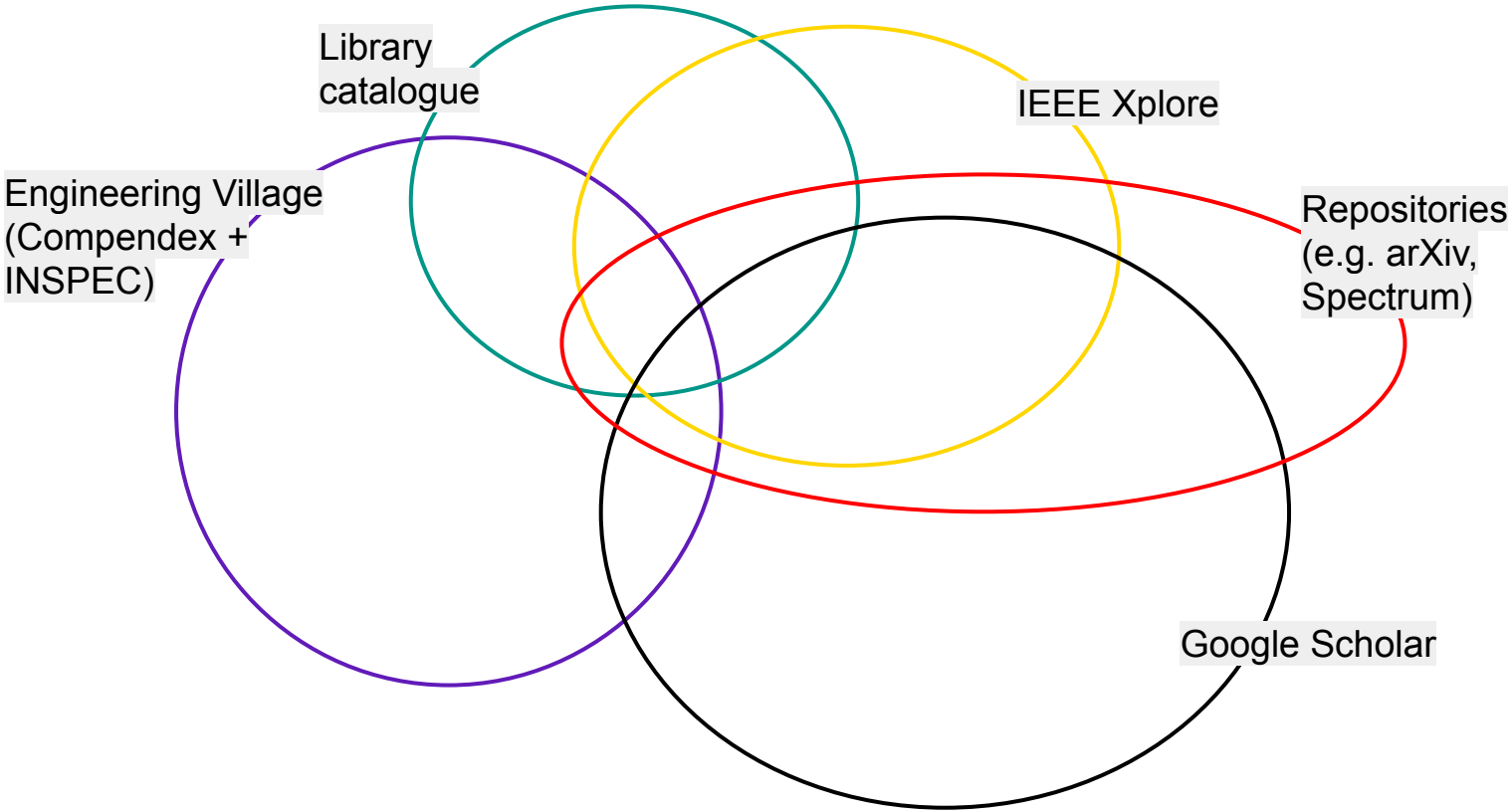
https://www.concordia.ca/library/guides/encs.html



Literature databases

1. **Bibliographic databases (citations + abstracts)**
   INSPEC & Compendex (Engineering Village)
2. **Full-text databases & publisher databases**
   IEEE Xplore, ACM Digital Library
3. **Citation databases**
   Web of Science, Scopus
4. **Search engines**
   Google Scholar, Semantic Scholar
5. **Format-specific databases**
   Proquest Dissertation & Theses
6. **Open access repositories** - *full contents, free to all, no paywall*
   Spectrum (Concordia), arXiv

How to find and access research?



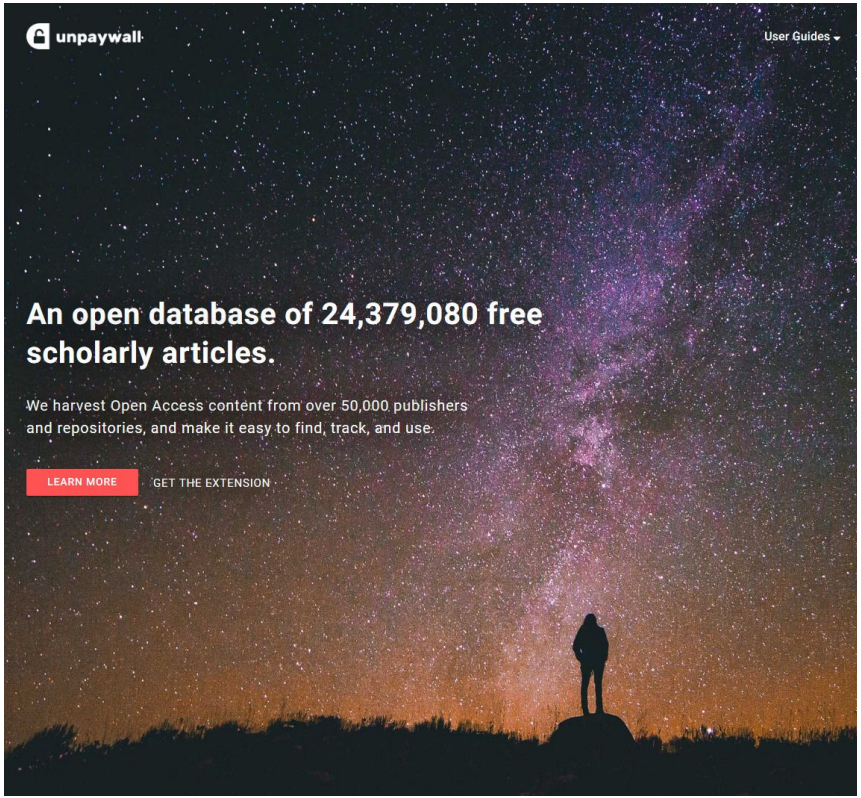
Google Scholar

Set up “Library Links” to add Find it! @ Concordia button to Google Scholar results: https://library.concordia.ca/find/google-scholar.php

Unpaywall

- Chrome/Firefox extension that will check paywalled articles against database of 24 million+ open access articles in respositories like arXiv and Spectrum to see if there is a free, legal, non-paywalled version of the article
- Big timesaver!

https://unpaywall.org/

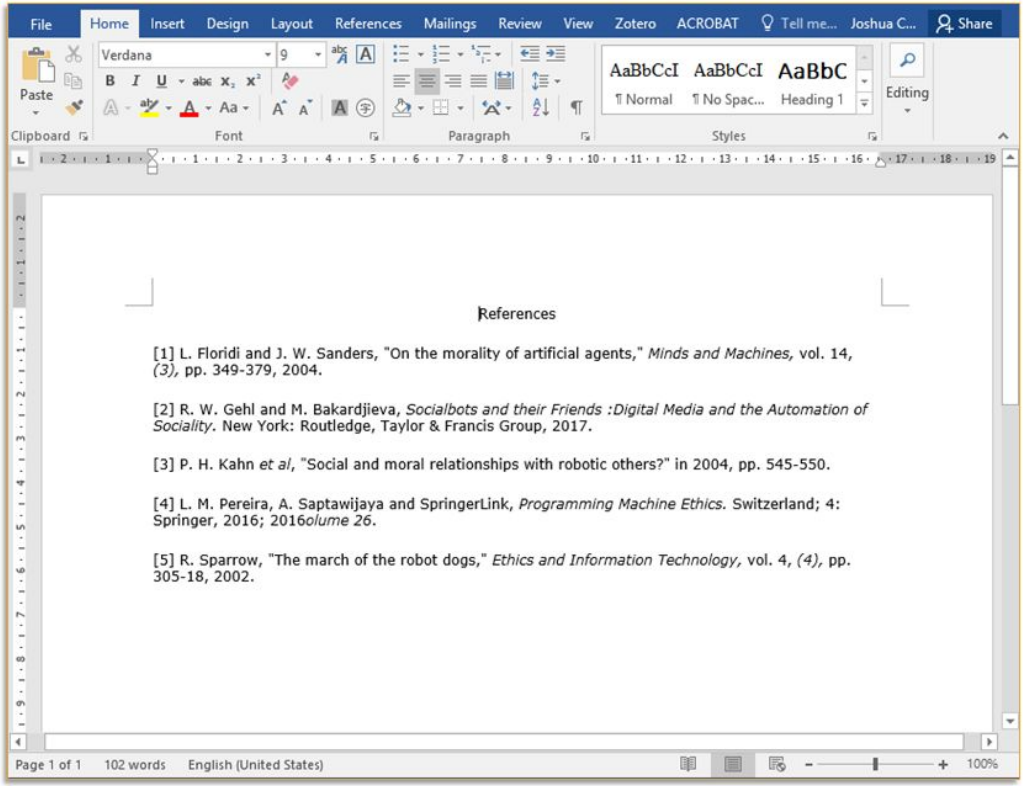


Literature search tools:

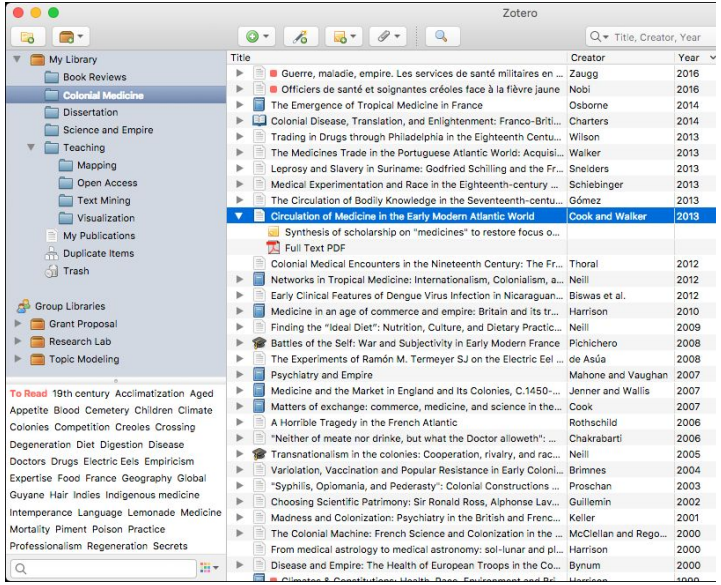
zotero

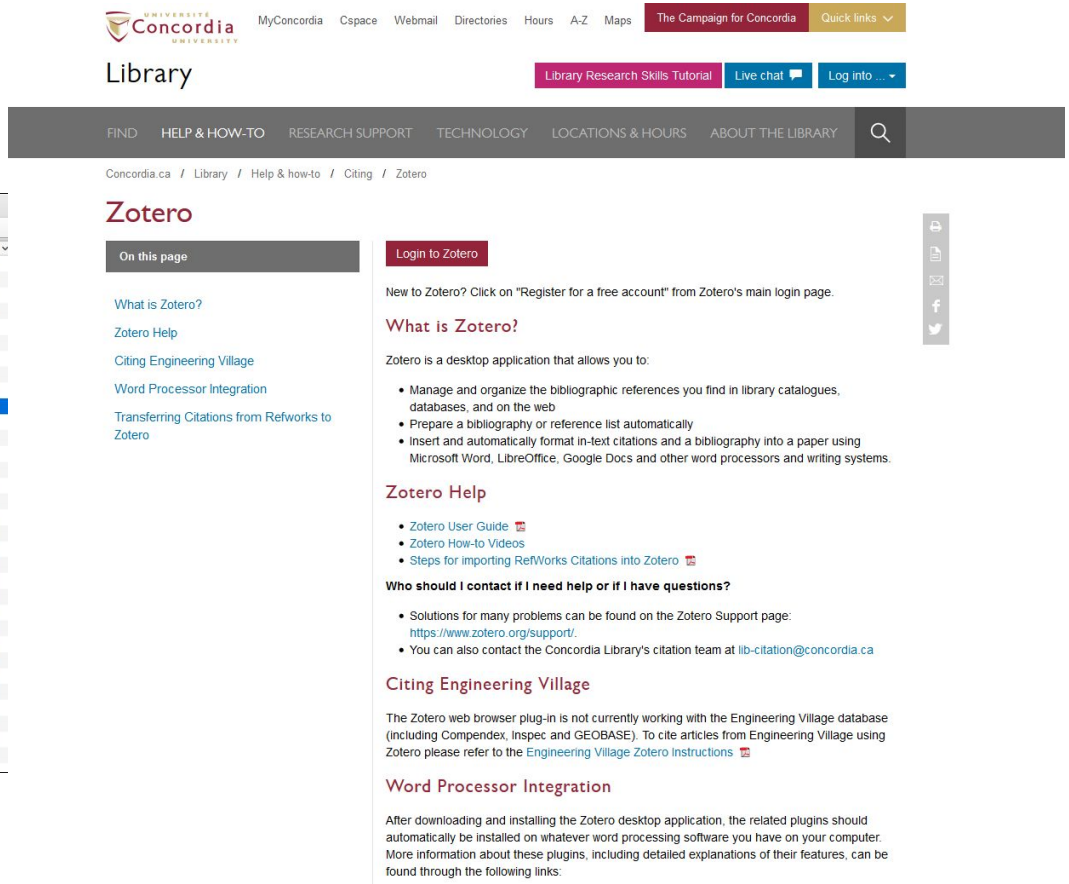
What is Zotero?

Zotero gives you this



Zotero setup





https://library.concordia.ca/help/citing/zotero/index.php

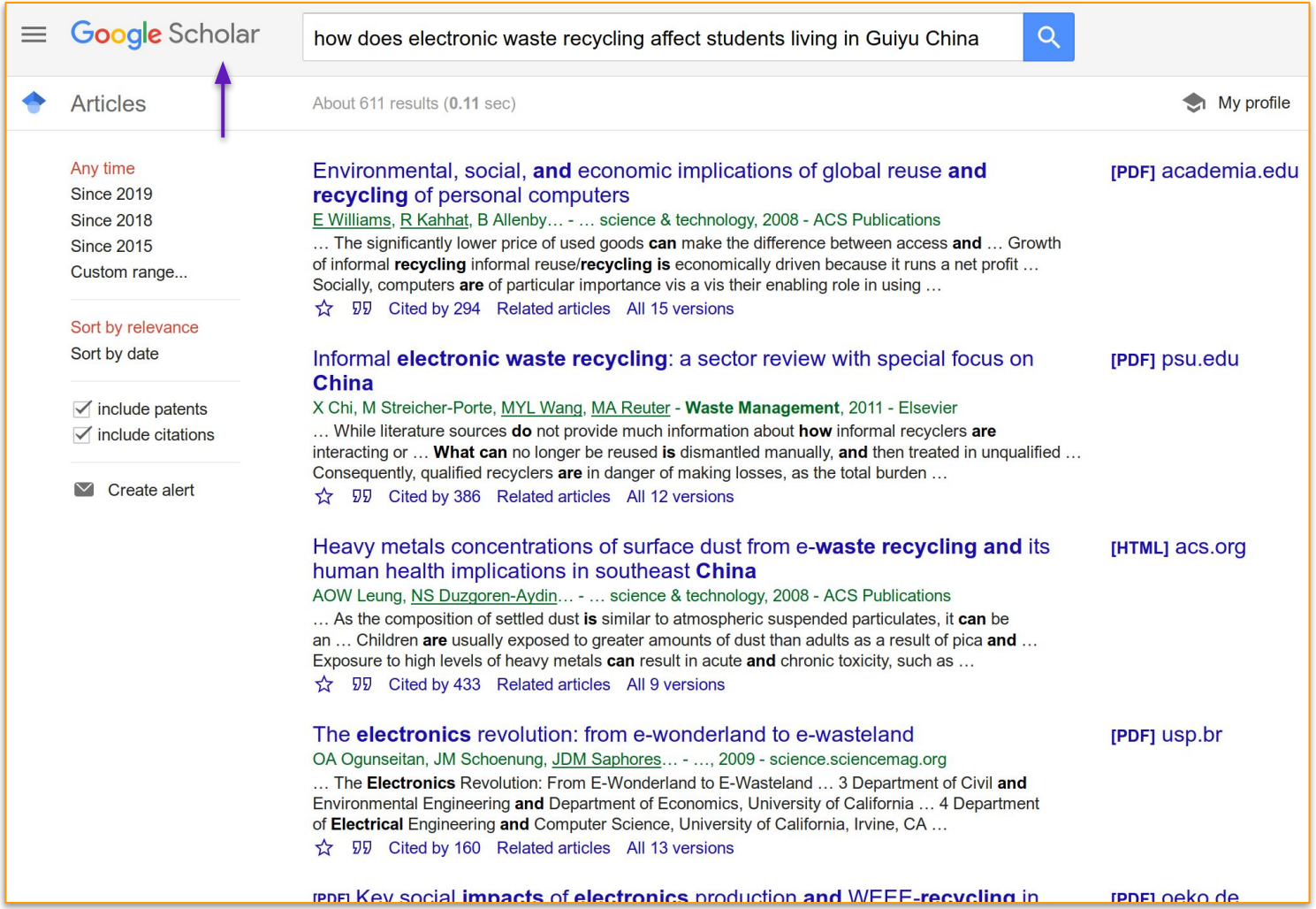
Search strategies

Forming search strategies

Choose a topic to research.

Write a question, which is **clear**, **does not have an obvious answer**, and **requires analysis and research**.

Identify important terms, concepts, keywords for your search strategy. *For example:*
How does electronic waste recycling affect citizens living in Guiyu, China?


Google Scholar
how does electronic waste recycling affect students living in Guiyu China
Articles
About 611 results (0.11 sec)
My profile
Any time
Since 2019
Since 2018
Since 2015
Custom range...
Sort by relevance
Sort by date
include patents
include citations
Create alert
Environmental, social, and economic implications of global reuse and recycling of personal computers
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E Williams, R Kahhat, B Allenby… - … science & technology, 2008 - ACS Publications
… The significantly lower price of used goods can make the difference between access and … Growth of informal recycling informal reuse/recycling is economically driven because it runs a net profit … Socially, computers are of particular importance vis a vis their enabling role in using …
Cited by 294 Related articles All 15 versions
Informal electronic waste recycling: a sector review with special focus on China
[PDF] psu.edu
X Chi, M Streicher-Porte, MYL Wang, MA Reuter - Waste Management, 2011 - Elsevier
… While literature sources do not provide much information about how informal recyclers are interacting or … What can no longer be reused is dismantled manually, and then treated in unqualified … Consequently, qualified recyclers are in danger of making losses, as the total burden …
Cited by 386 Related articles All 12 versions
Heavy metals concentrations of surface dust from e-waste recycling and its human health implications in southeast China
[HTML] acs.org
AOW Leung, NS Duzgoren-Aydin… - … science & technology, 2008 - ACS Publications
… As the composition of settled dust is similar to atmospheric suspended particulates, it can be an … Children are usually exposed to greater amounts of dust than adults as a result of pica and … Exposure to high levels of heavy metals can result in acute and chronic toxicity, such as …
Cited by 433 Related articles All 9 versions
The electronics revolution: from e-wonderland to e-wasteland
[PDF] usp.br
OA Ogunseitan, JM Schoenung, JDM Saphores… - …, 2009 - science.sciencemag.org
… The Electronics Revolution: From E-Wonderland to E-Wasteland … 3 Department of Civil and Environmental Engineering and Department of Economics, University of California … 4 Department of Electrical Engineering and Computer Science, University of California, Irvine, CA …
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[PDF] Key social impacts of electronics production and WEEE-recycling in
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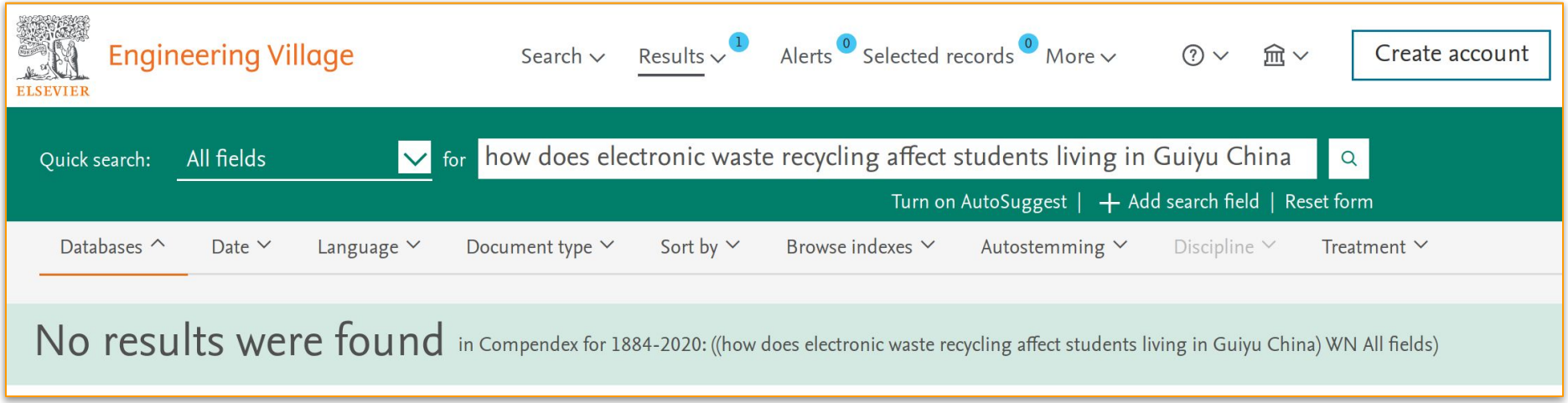
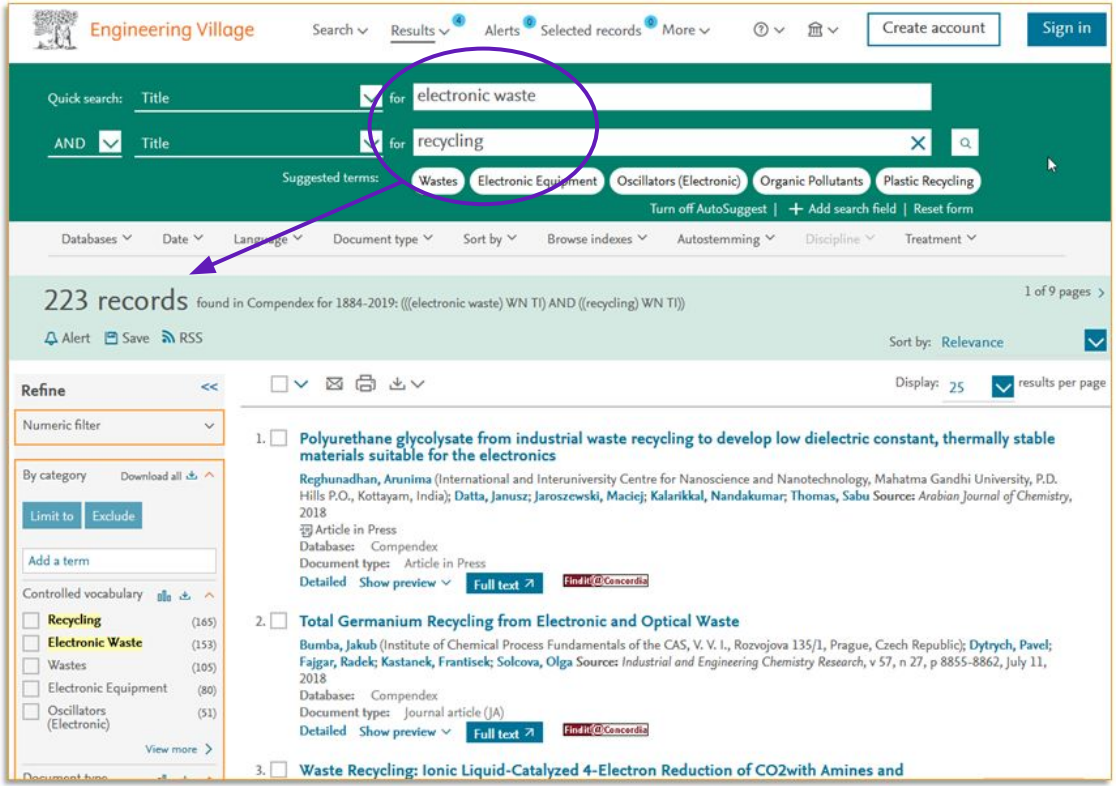


No results from over 22 million records?!?

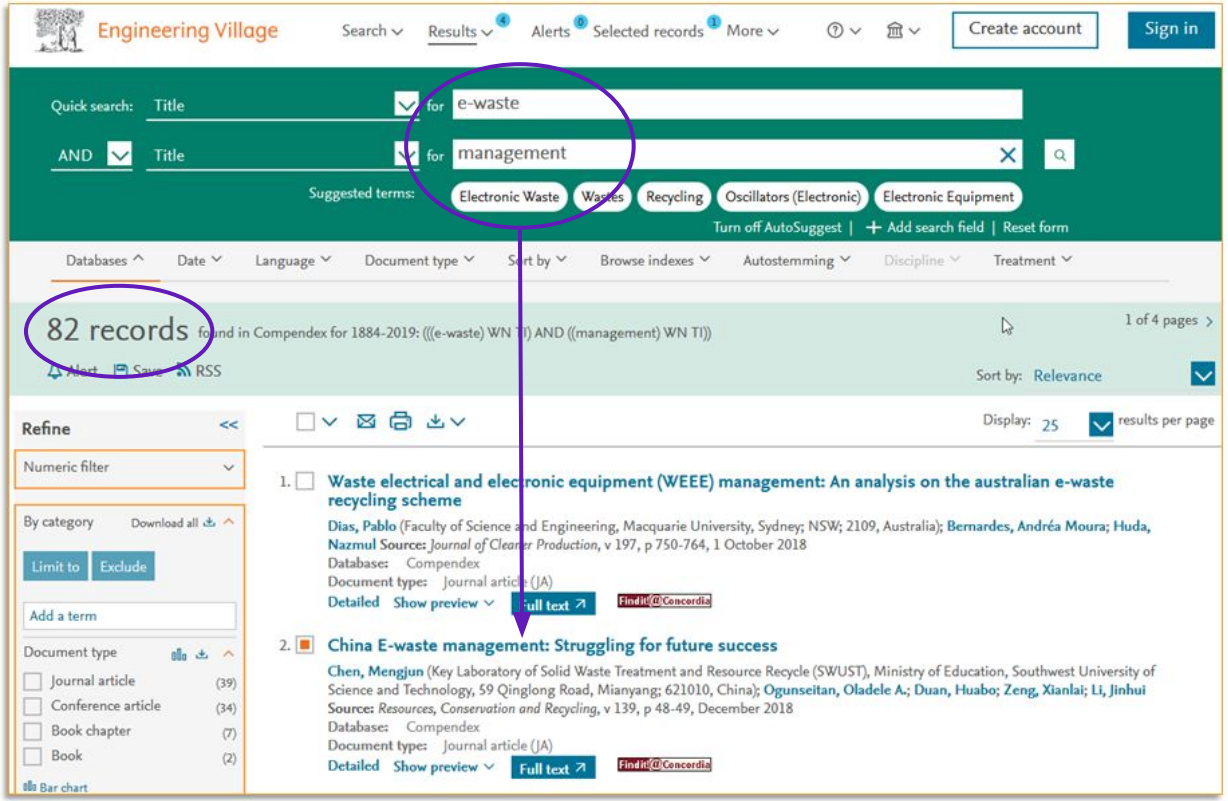
Identify key concepts

How does electronic waste recycling affect citizens living in Guiyu, China?

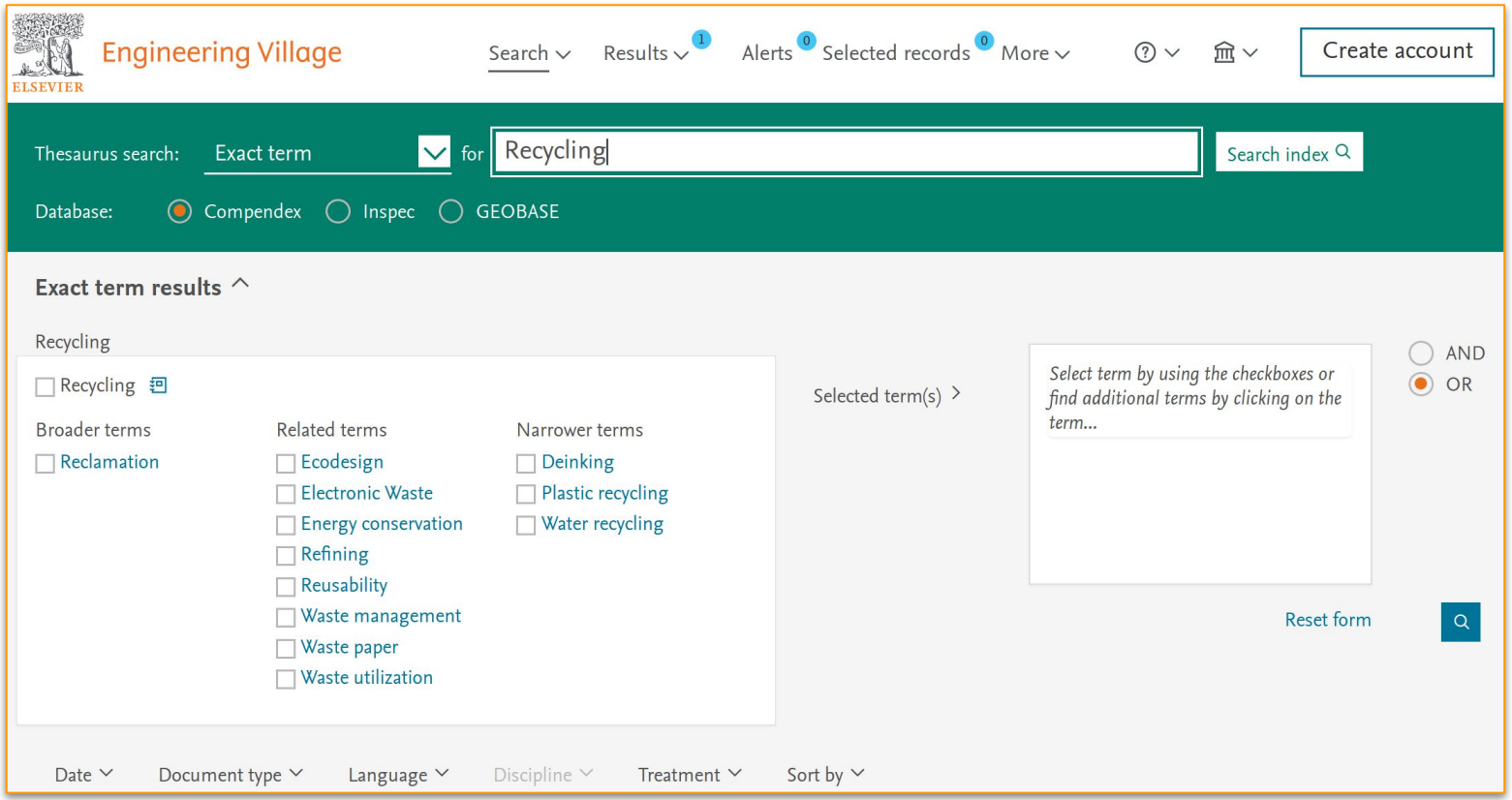
Need for synonyms and related terms



Need for synonyms and related terms



Using the Thesaurus to find synonyms



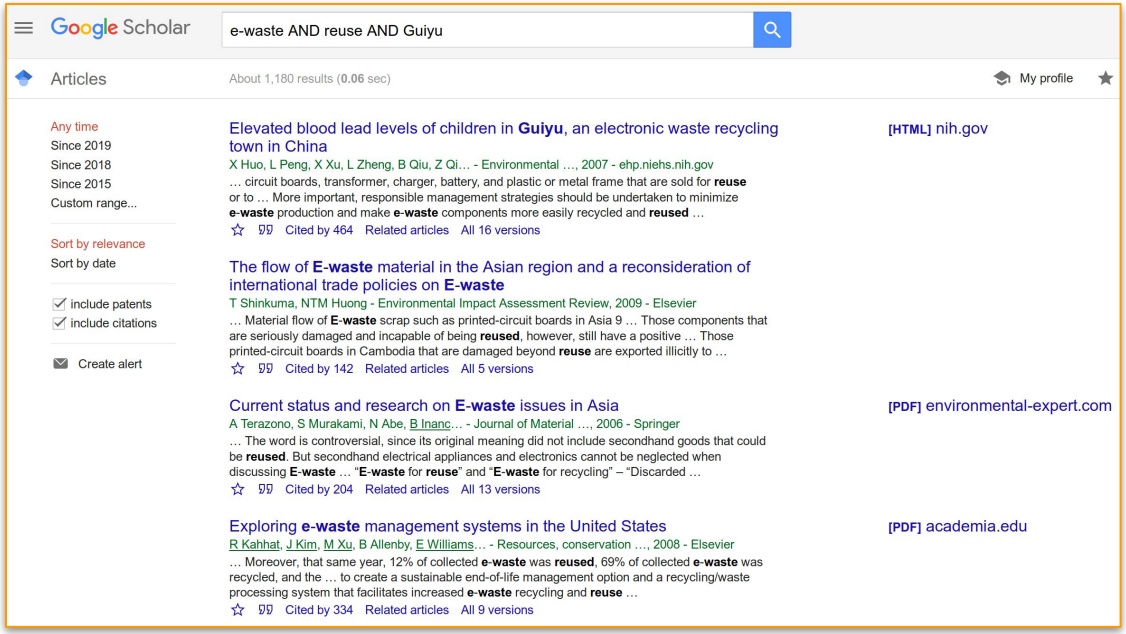
Creating a search strategy

How does electronic waste recycling affect citizens living in Guiyu, China?

Simple

Concept 1 AND Concept 2

Concept 1 AND Synonym 2



Creating a search strategy

How does electronic waste recycling affect citizens living in Guiyu, China?

Advanced

Creating a search strategy

Search tip: **truncations!**

recycling = recycling

recycl* = recycle OR recycled OR recycling

Creating a search strategy

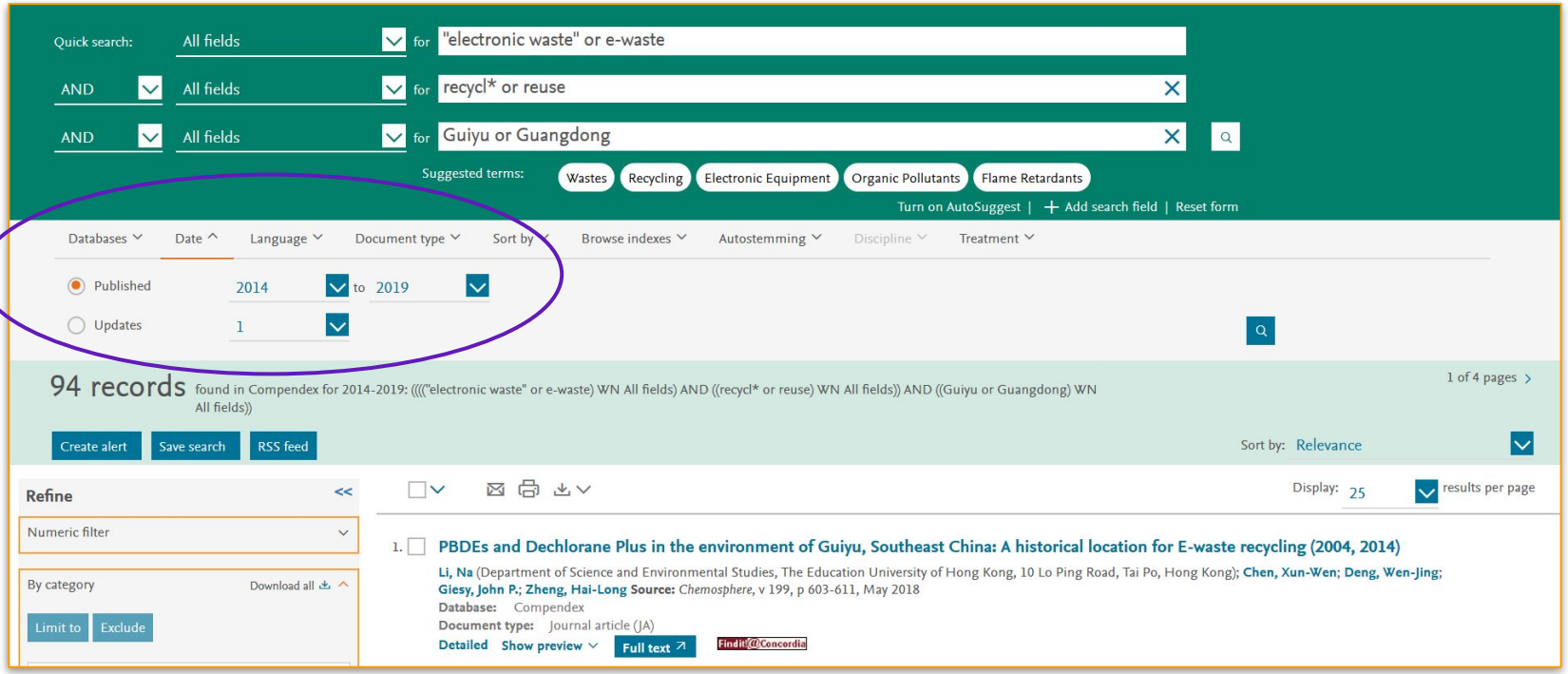
Search tip: **quotation marks!**

electronic waste = electronic AND waste

“electronic waste” = phrase search

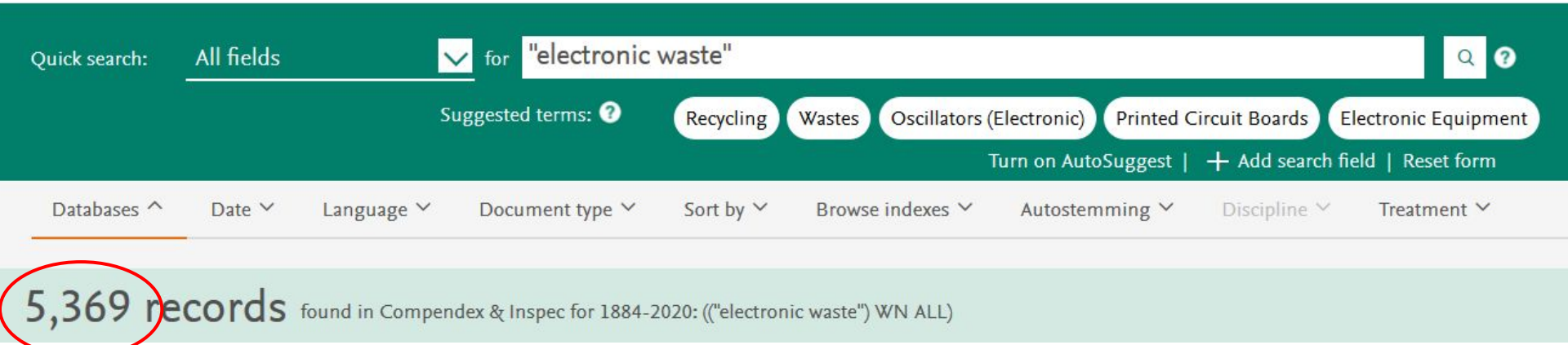
Creating a search strategy

How does electronic waste recycling affect citizens living in Guiyu, China?



RECAP: Finding what you want in a database

(recall)

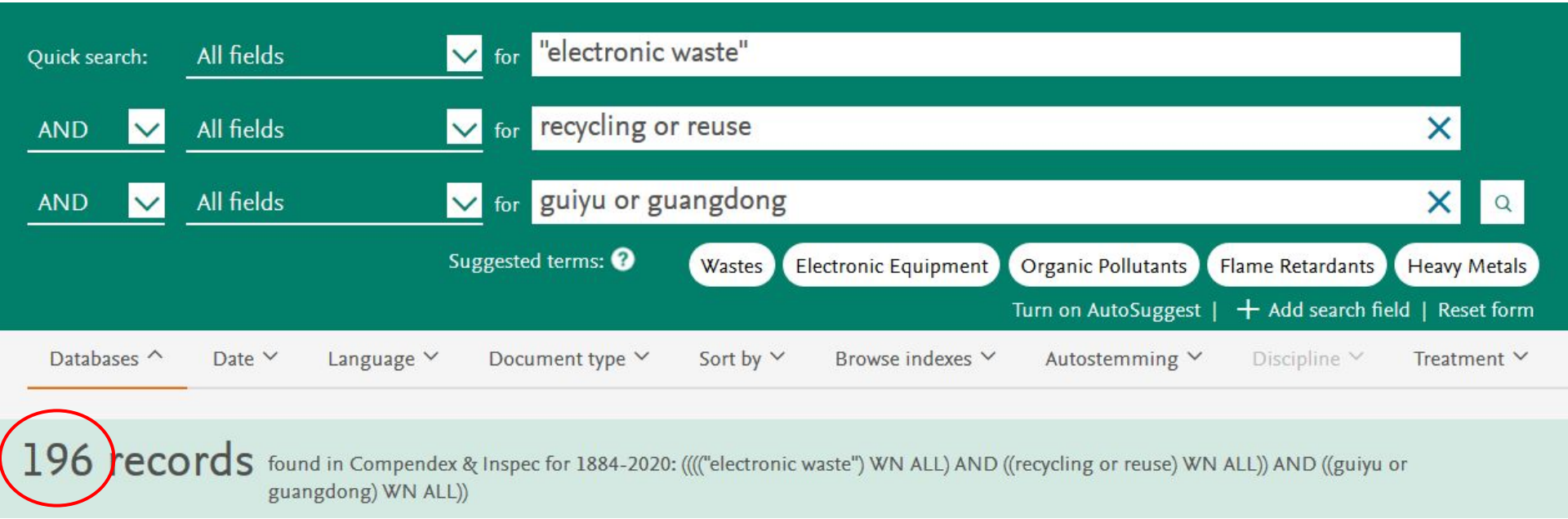


RECAP: Finding what you want in a database

(precision)

RECAP: Finding what you want in a database

(staying on target while broadening the search)



Accessing articles, books, and other resources

I found an article I want in (e.g.) Compendex. How do I get access to the full text?

1. Look for **Full text** or **PDF** button, if one exists.
2. Look for **Find it @ Concordia** button
3. Request a copy through **Interlibrary Loan (COLOMBO)**
4. **Ask a Librarian** if you need help!

183 records found in Compendex for 1884-2020: ((("electronic waste" or e-waste) WN All fields) AND ((recycl* or reuse) WN All fields)) AND ((Guiyu or Guangdong) WN All fields))

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cument type

- Journal article (171)
- Conference article (7)
- Article in Press (3)
- Book chapter (1)

Bar chart

thor

- Xu, Xijin (29)
- Huo, Xia (29)
- Mai, Bi-Xian (19)
- Luo, Xiao-Jun (16)
- Fu, Jiamo (13)

View more

thor affiliation

- State Key Laboratory Of Organic Geochemistry, Guangzhou Institute Of Geochemistry, Chinese Academy Of Sciences (24)

1. **Policy on E-waste in China - Case study of Guiyu town, Guangdong province**

   Li, Bin (University of Jiaxing, Jiaxing, Zhejiang, 314001, China); Du, Huanzheng; Bao, Jiqing; Higano, Yoshiro; Li, Yang **Source:** *Proceedings - International Conference on Computer Distributed Control and Intelligent Environmental Monitoring, CDCIEM 2011*, p 2482-2485, 2011, *Proceedings - International Conference on Computer Distributed Control and Intelligent Environmental Monitoring, CDCIEM 2011*

   Database: Compendex

   Document type: Conference article (CA)

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2. **Heavy metal contamination from electronic waste recycling at Guiyu, southeastern China**

   Guo, Yan (School of Environmental Science and Public Health, Wenzhou Medical College, Wenzhou 325035, China); Huang, Changjiang; Zhang, Hong; Dong, Qiaoxiang **Source:** *Journal of Environmental Quality*, v 38, n 4, p 1617-1626, July-August 2009

   Database: Compendex

   Document type: Journal article (JA)

   Detailed | Show preview | Cited by in Scopus (52) | Full text | Findit@Concordia

3. **E-waste environmental contamination and public health effects in Guiyu, southeast China**

   Ban, Hao (Analytic Cytology Laboratory and the Key Immunopathology Laboratory of Guangdong Province, Shantou University Medical College, Guangdong, China); Xu, Xijin; Wu, Kusheng; Sun, Di; Zhang, Jian; Alabi, Okunola Adenrele; Huo, Xia **Source:** *E-Waste: Management, Types and Challenges*, p 109-128, 2012

   Database: Compendex

   Document type: Book chapter (CH)

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4. **Assessment of cadmium exposure for neonates in Guiyu, an electronic waste pollution site of China**

   Li, Yan (Analytical Cytology Laboratory, Key Immunopathology Laboratory of Guangdong Province, Shantou University Medical College, Shantou 515041, China); Huo, Xia; Liu, Junxiao; Peng, Lin; Li, Weiqiu; Xu, Xijin **Source:** *Environmental Monitoring and Assessment*, v 177, n 1-4, p 343-351, June 2011

   Database: Compendex

   Document type: Journal article (JA)

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E-waste environmental contamination and public health effects in Guiyu, southeast China
Ban, Hao. *E-Waste: Management, Types and Challenges* v. no. p. 109 Year: 2012

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Citing sources

Citing: General information

See ENCS Subject Guide for information on citing and **IEEE citation style**

What do you need to cite?

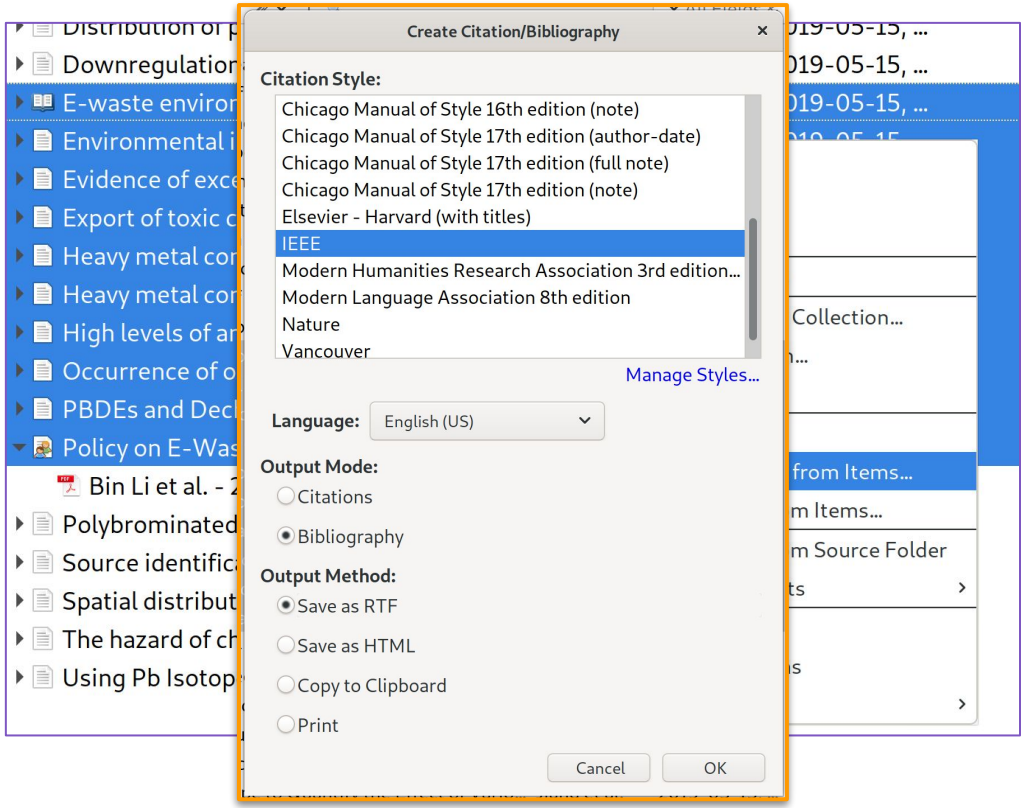
- Any text you quote from another document, website, book, etc.
- Paraphrasing someone's words or ideas
- Images, graphs, etc.

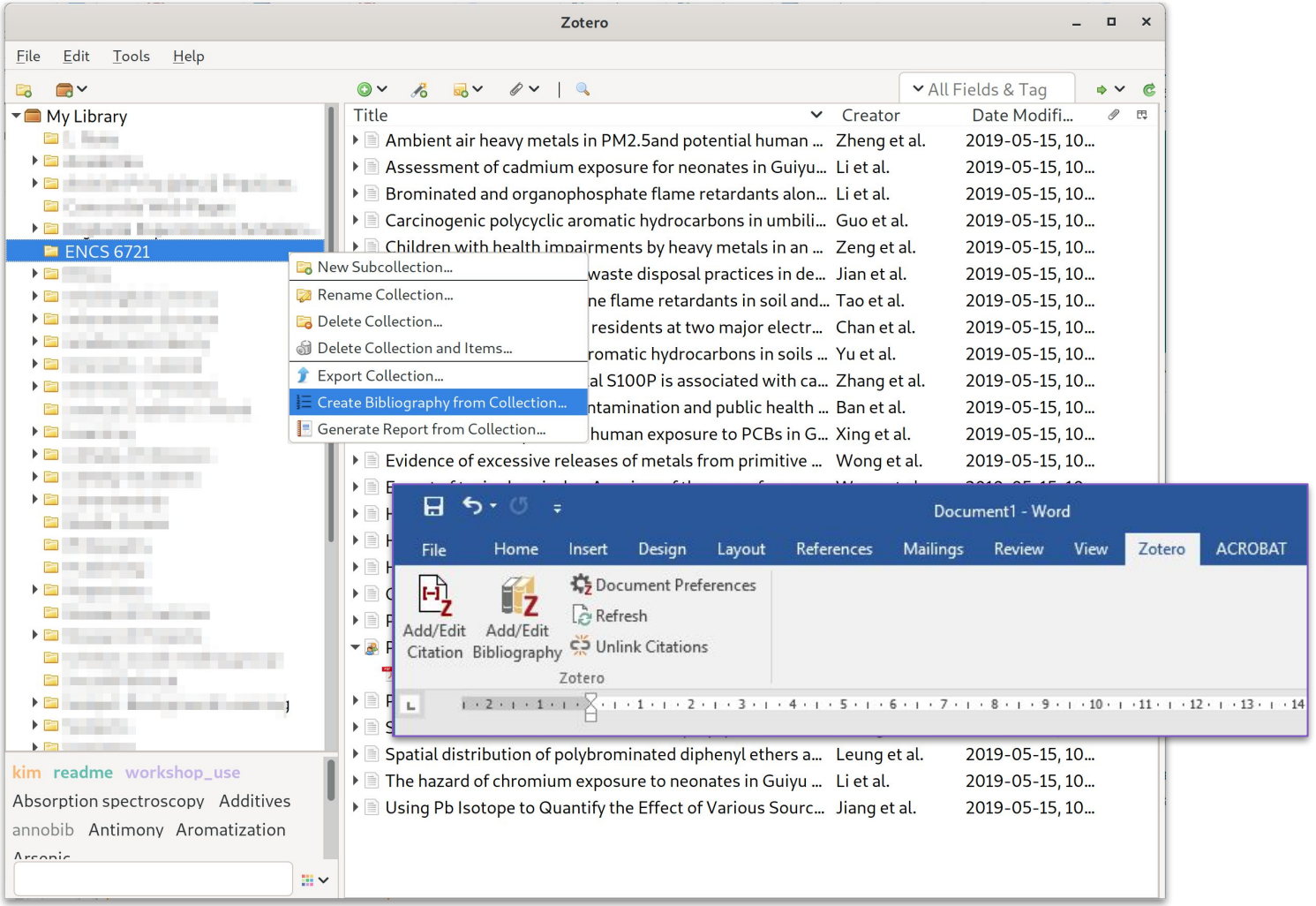
It is always better to err on the side of caution and to **cite the source of any information** you use in your writing.

Citing: Creating a bibliography

zotero

- Keeps track of your sources
- Creates your bibliographies *for you* in IEEE (or Chicago, etc.) style
- Easily insert citations while you're writing




Zotero
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New Subcollection...
Rename Collection...
Delete Collection...
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Export Collection...
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Generate Report from Collection...
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Ambient air heavy metals in PM2.5and potential human ... Zheng et al. 2019-05-15, 10...
Assessment of cadmium exposure for neonates in Guiyu... Li et al. 2019-05-15, 10...
Brominated and organophosphate flame retardants alon... Li et al. 2019-05-15, 10...
Carcinogenic polycyclic aromatic hydrocarbons in umbili... Guo et al. 2019-05-15, 10...
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human exposure to PCBs in G... Xing et al. 2019-05-15, 10...
Evidence of excessive releases of metals from primitive ... Wong et al. 2019-05-15, 10...
Spatial distribution of polybrominated diphenyl ethers a... Leung et al. 2019-05-15, 10...
The hazard of chromium exposure to neonates in Guiyu ... Li et al. 2019-05-15, 10...
Using Pb Isotope to Quantify the Effect of Various Sourc... Jiang et al. 2019-05-15, 10...
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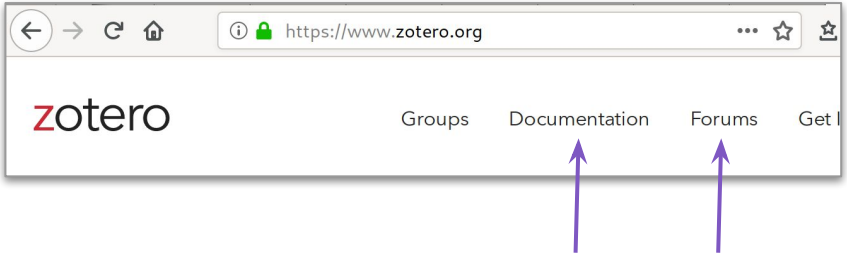

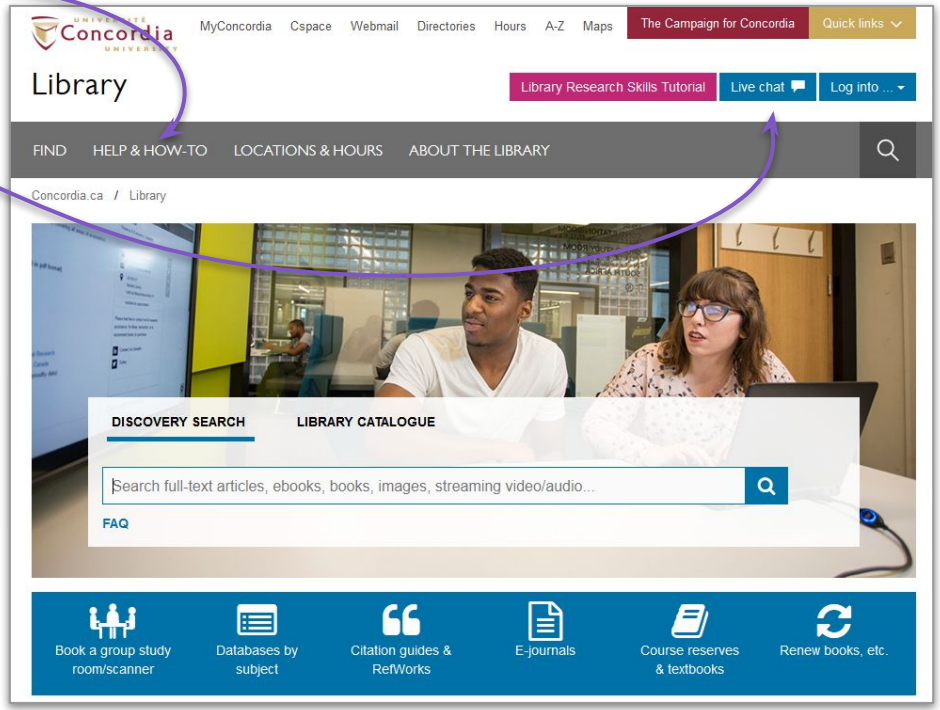

Questions?

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from Noun Project