

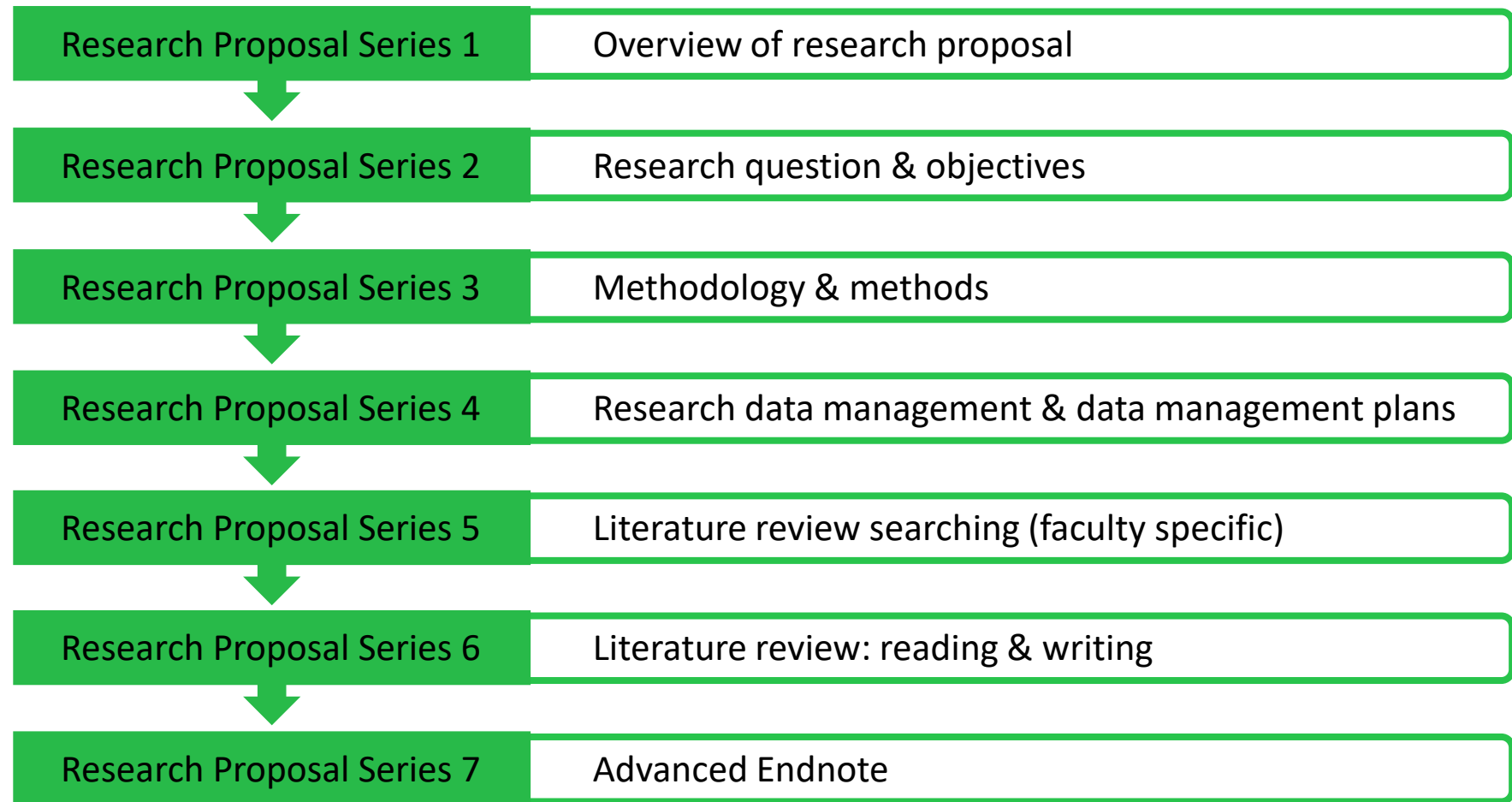


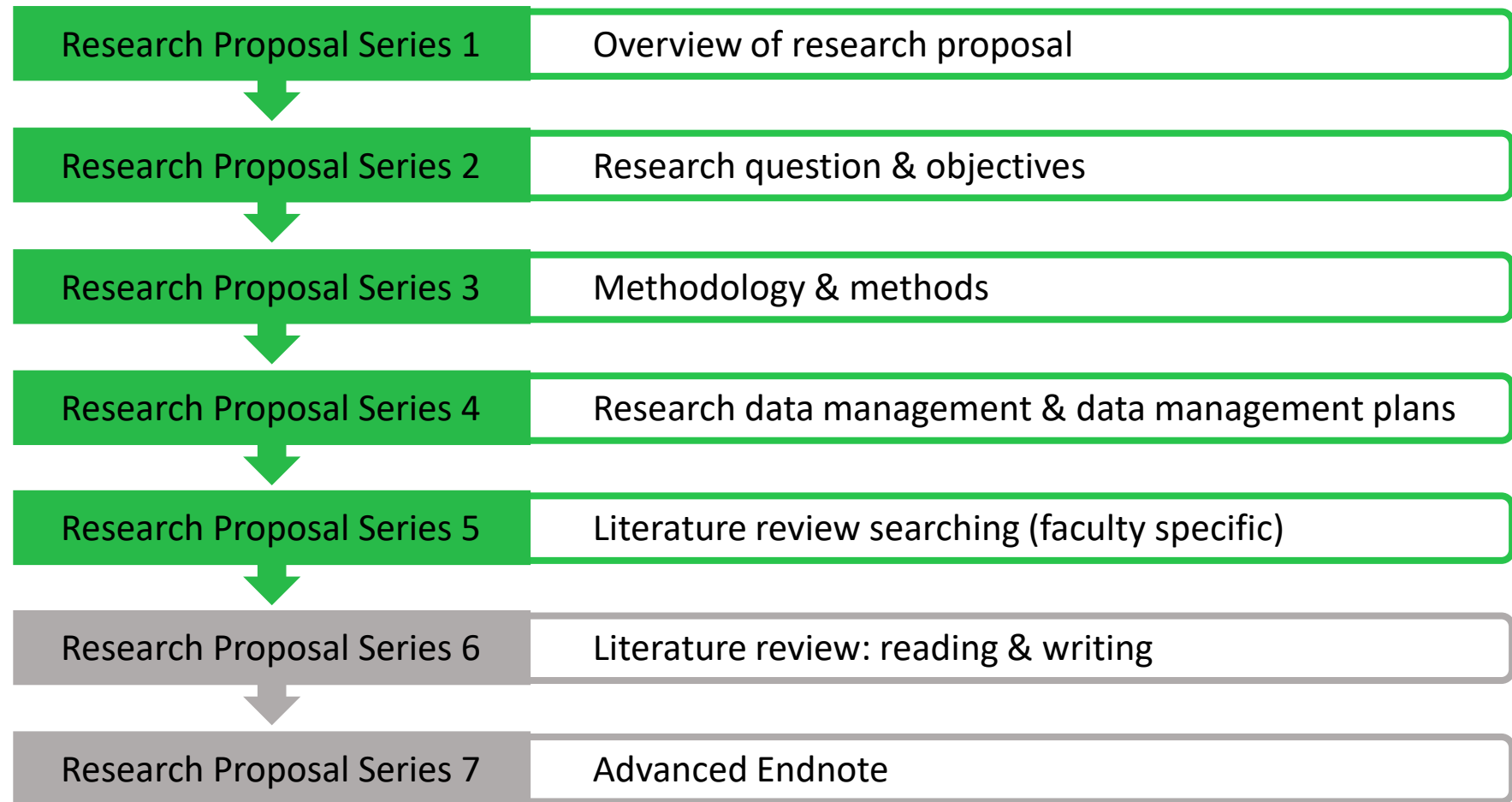
Graduate Research Advanced Skills Program (GRASP)

## **Research Proposal Series (Milestone 1)**

# Power up your PhD

**Literature Reviews and Milestone One  
essentials for Science and Engineering**







# Power up your PhD


## Literature review searching and Milestone One essentials for Science and Engineering

Online Session

[Jenny Copestake](#)

Faculty Librarian, Science & Engineering

February 2022




Curtin University acknowledges the traditional owners of the land on which Curtin Perth is located, the Wadjuk people of the Nyungar Nation; and on our Kalgoorlie campus, the Wongutha people of the North-Eastern Goldfields.

**SAELibrarian@curtin.edu.au**



# Research Toolkit

 Curtin University


Library

Research Toolkit

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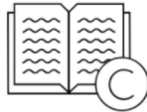
Search

Resources for staff and higher degree by research students



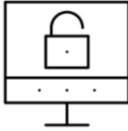
**GRASP**

The Graduate Research Advanced Skills Program helps students develop skills in scholarly reading, thinking, analysing and writing.




**Publishing**

Resources on sharing research findings in the most impactful way including selecting the best journal and Open Access options.




**Curtin espace**

Curtin University's institutional repository - an open access digital collection of Curtin research publications and HDR theses.




**Advanced searching**

Resources and techniques to enable specialist searching for your research question, literature review and systematic review.




**Research data management**

Resources and advice on storing, managing and sharing your research data for compliance and impact.




**ORCID and researcher identifiers**

How to set up and use an ORCID and other researcher identifiers to increase impact and raise your profile.



**Metrics and impact**

Resources for measuring the impact of research output including metrics and altmetrics.



**UniSkills**

Further resources for all Curtin students including guides for [Referencing](#) and [EndNote](#).

<https://libguides.library.curtin.edu.au/research-toolkit>



# Research Toolkit

Level up your research. Tools for higher degree by research students and staff.



## Concept and planning



Ideas and processes to explore and consider before you begin your research.

## Searching and literature review



Techniques, sources and resources to help you find the information you need.

## Data collection and analysis



Skills, resources and tools to help you collect, analyse and manage research data.

## Writing and publishing

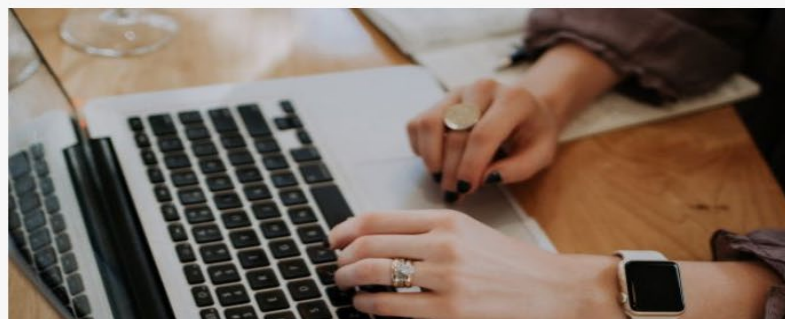


Information about where and how to publish and what to do with publication outputs.

## Promotion and impact



Ways to measure, track, promote and improve your research impact.



The Graduate Research Advanced Skills Program helps Higher Degree by Research (HDR) students develop skills in scholarly reading, thinking, analysing and writing.

[Explore GRASP](#)

# Milestone One requirements

- Research proposal
  - Literature review – demonstrate your knowledge of the relevant literature
    - “make adequate and intelligent reference to other works”
    - “sufficient knowledge of the literature”
  - Methods and methodology
    - “methodology and methods suitable for the proposed study”
- Milestone One application
  - [ORCID](#)
  - Completion of a [Data Management Plan](#)
    - Outline of specific data collection and management methods

# Session Outline

1. Fill your literature review with quality references
2. Track research in your discipline
3. Thesis by compilation? Tips to get your research published
4. ORCID's, DOI's and other ways to promote your research
5. Where to get help

# What is a literature review?

**“The sum of writings on a particular subject”**

Consider:

- Academic journal articles  
(original research, literature reviews)
- Conference papers
- eBooks
- Industry journals
- Government reports
- Standards
- Patents
- Honours Masters PhD Theses
- Research Methodologies

# Literature review



<https://libguides.library.curtin.edu.au/systematic-approaches>

cc: whisperwolf - <https://www.flickr.com/photos/16102959@N00>

- Introduction

Helps you find the gaps in knowledge that focus the direction of your project as mentioned in the Introduction

- Literature review

Informs you about the advantages and disadvantages of previous techniques so you can refine your own approach

- Methodology

Allows you to add depth to the discussion of your own results by placing them in context ...

- Results and discussion

- Conclusions

Gordon Ingram

# Your literature review is important



- Leave no stone unturned, otherwise how do you know your research is original?!
- Perform your research using all available relevant resources

# Focus today for literature review

1. Search
2. Select
3. Read & Analyse
4. Write



# Searching for your literature review

- Create a search strategy
- Cast your net wide
- Harness the power of Curtin's databases - citation searching
- GRASP – Research Proposal (M1) series, research writing series
- Be confident with referencing – take a class
- Manage what you find – EndNote
- Make use of clever add-ons – Google Scholar settings, EndNote Click, Scite, Literature Mapping Tools
- You can request items Curtin Library does not hold – Document delivery

# So where do YOU start?

Google

Google Scholar

Search the Library Catalogue

SEARCH



Databases

<https://researchdirect.westernsydney.edu.au › uws:56640> ▼

## Climate change significantly alters future wildfire mitigation ...

by G Di Virgilio · 2020 · Cited by 7 — Di Virgilio, G., Evans, J. P., Clarke, H., Sharples, J., Hirsch, A. L., & Hart, M. A. (2020). **Climate change** significantly alters future **wildfire** mitigation ...

<https://scholars.uow.edu.au › publication144952> ▼

## Climate Change Significantly Alters Future Wildfire Mitigation ...

Abstract. ©2020. American Geophysical Union. All Rights Reserved. Prescribed burning is used globally to mitigate the risks of wildfires, ...

<https://newsroom.unsw.edu.au › news › science-tech › c...> ▼

## Climate change will make fire storms more likely in ...

21 Nov 2019 — Pyrocumulonimbus events begin with the intense heat of a very big and fast-burning **wildfire**, which causes a large and rapidly rising smoke ...

<https://researchers.mq.edu.au › files> ▼ PDF

## CLIMATE CHANGE AND THE SOUTH AUSTRALIA ...

In South. Australia a **wildfire** in 2007 burned a reservoir catchment that supplied water to Adelaide, negatively affecting the quality of the water (Smith et al.



About 79,900 results (0.06 sec)

### [Climate change and wildfire in California](#)

[AL Westerling](#), [BP Bryant](#) - Climatic Change, 2008 - Springer

**Wildfire** risks for California under four climatic change scenarios were statistically modeled as functions of climate, hydrology, and topography. **Wildfire** risks for the GFDL and PCM global climate models and the A2 and B1 emissions scenarios were compared for 2005 ...

☆ Cited by 430 Related articles All 24 versions

251 9 207 0

### [\[HTML\] Climate change and growth scenarios for California wildfire](#)

[AL Westerling](#), [BP Bryant](#), [HK Preisler](#), [TP Holmes](#)... - Climatic Change, 2011 - Springer

Large **wildfire** occurrence and burned area are modeled using hydroclimate and landsurface characteristics under a range of future climate and development scenarios. The range of uncertainty for future **wildfire** regimes is analyzed over two emissions pathways (the ...

☆ Cited by 224 Related articles All 26 versions

131 3 165 0

### [Wildfire responses to abrupt climate change in North America](#)

[JR Marlon](#), [PJ Bartlein](#), [MK Walsh](#)... - Proceedings of the ..., 2009 - National Acad Sciences

It is widely accepted, based on data from the last few decades and on model simulations, that anthropogenic **climate change** will cause increased fire activity. However, less attention has been paid to the relationship between abrupt climate changes and heightened fire ...

[\[PDF\] springer](#)[Find It @ CU](#)[\[HTML\] springer](#)[Find It @ CU](#)[\[PDF\] pnas](#)[Find It @ CU](#)

Settings

Search results

Languages

Library links

Account

Button

Show library access links for (choose up to five libraries):



e.g., *Harvard*

- ☒ Curtin University - Find It @ Curtin
- ☒ National Library of Australia - Libraries Australia

Online access to library subscriptions is usually restricted to patrons of that library. You may need to login with your library password, use a campus computer, or configure your browser to use a library proxy. Please visit your library's website or ask a local librarian for assistance.

Save

Cancel

To retain settings, you must turn on [cookies](#)

# Research Topic

Quantifying the impact of  
climate change on wild fires

# Research Topic

Quantifying the impact of  
climate change on wild fires

# What do you call this?



# Concept Grid

Wild fire	Climate change
Bush fire or bushfire	Global warming
Wild fire or wildfire	Greenhouse effect
Forest fire	
Prescribed burn	

# Search strategy

"bush fire" OR bushfire\* OR "wild fire" OR  
wildfire\* OR "forest fire" OR "prescribed burn"

AND

"Climate change" OR "global warming" OR  
"greenhouse effect"



Scopus

[Search](#)

[Sources](#)

[Lists](#)

[SciVal](#) ↗



[Create account](#)

# 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 \*  
"bush fire" OR bushfire OR "wild fire" OR wildfire OR "forest fire" OR "prescribed burn"



AND



Search within  
Article title, Abstract, Keywords



Search documents  
"Climate change" OR "global warming" OR "greenhouse effect"



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

[Reset](#)

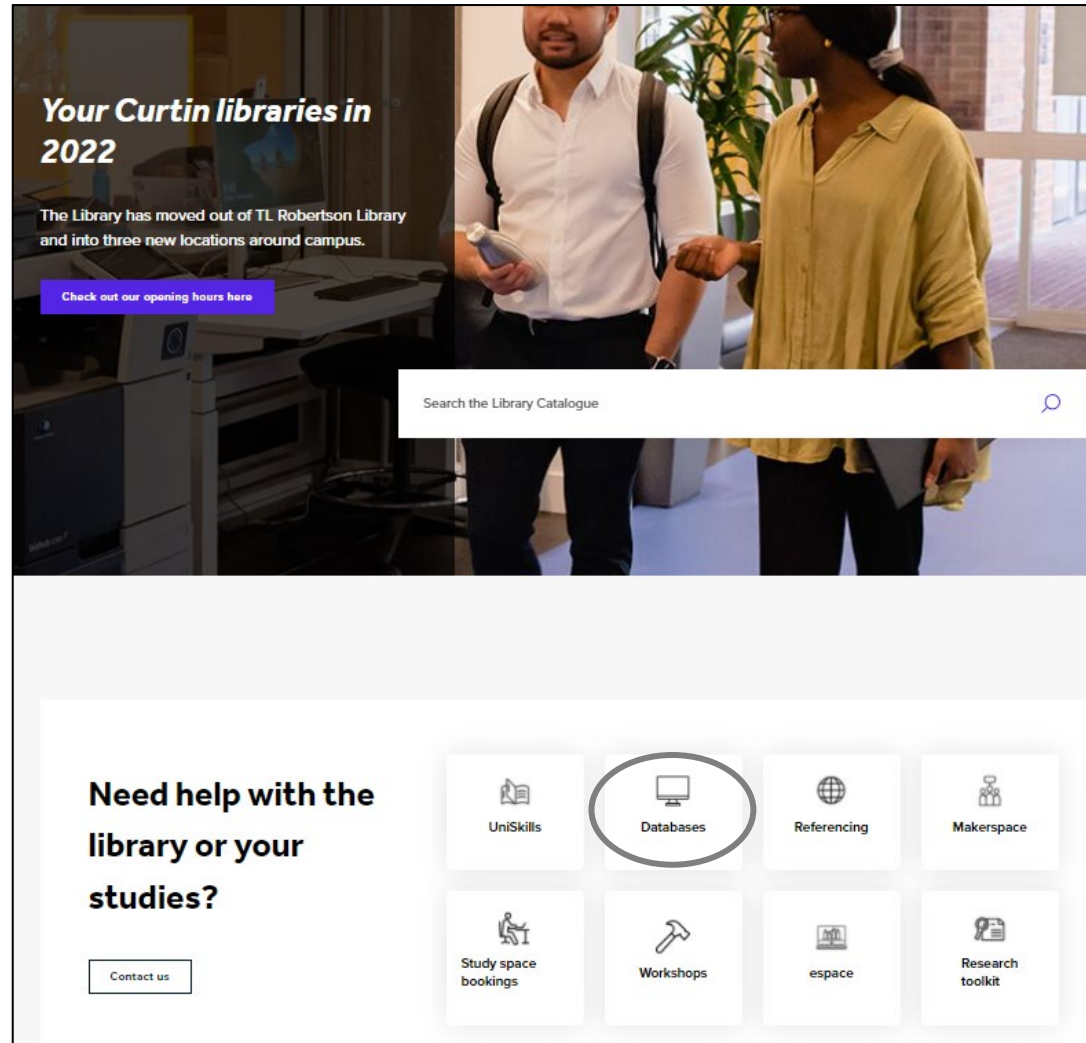
[Search](#) 🔍

# Need more info?

For a more detailed explanation of search strategies and syntax check out our study guide:

[Systematic approaches to literature review searching](#)

# Where to find databases?



**Your Curtin libraries in 2022**

The Library has moved out of TL Robertson Library and into three new locations around campus.

[Check out our opening hours here](#)

Search the Library Catalogue

**Need help with the library or your studies?**

[Contact us](#)

UniSkills	<b>Databases</b>	Referencing	Makerspace
Study space bookings	Workshops	espace	Research toolkit

ProQuest

# Which database?

Scopus



ScienceDirect

Ovid®

- ① CAB Abstracts
- ① AGRICOLA
- ① Biological Abstracts

 Techstreet™ Enterprise

 Engineering Village™  
The first choice for serious engineering research.

IEEE Xplore®  
Digital Library

Web of Science

Informa<sup>®</sup>

Knovel®

CAS SCIFINDER<sup>®</sup>



COMPASS  
Your Portal for Standards, Testing, Learning & More



ICE Virtual Library  
essential engineering knowledge



GeoScienceWorld

# Databases about...

 **SAGE** research**methods**

ProQuest Dissertations & Theses Global



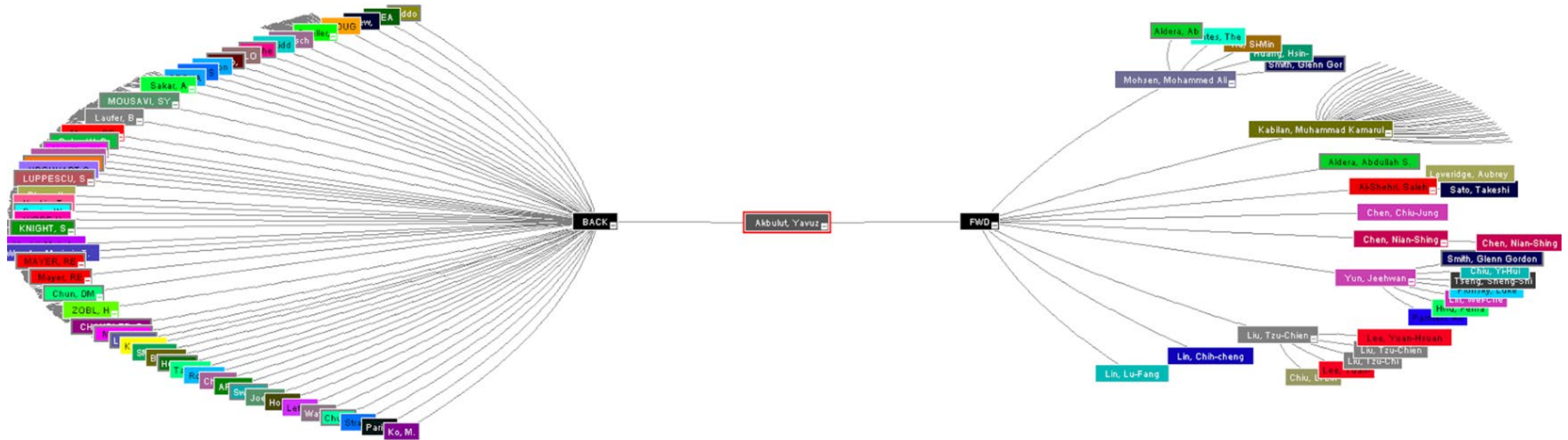
**ANNUAL REVIEWS**

 **Techstreet™** Enterprise

# Citation databases...

The logo for Scopus, featuring the word "Scopus" in a bold, orange, sans-serif font.The logo for Web of Science, featuring the words "Web of Science" in a bold, black, sans-serif font.The logo for CAS SCIFINDER, featuring the words "CAS SCIFINDER" in a bold, light blue, sans-serif font on a dark blue background.The logo for ProQuest, featuring the word "ProQuest" in a white, serif font on a teal background.The logo for Google Scholar, featuring the word "Google" in its multi-colored sans-serif font, with the word "Scholar" in a smaller, blue, sans-serif font below it.

# Citation databases...



Source: Web of Science™, <http://thomsonreuters.com/scholarly-scientific-research/>

# Literature Mapping tools

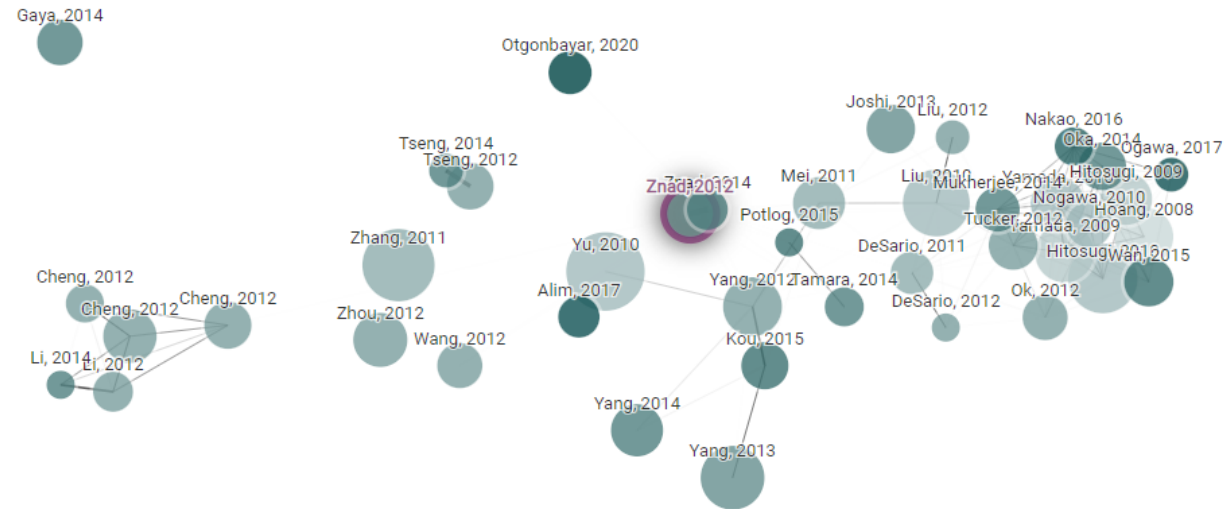
Literature mapping tools use one or more papers you select, and using data including citations, then recommend similar papers

## Examples:

Connected Papers

Citation Gecko

Research Rabbit





# Standards, Patents and Datasets

Australian Standards, ASTM, IEEE, National Construction Code, **ISO, IEC**

Australian and International Patents

Datasets – Australian, Commercial and International repositories

Publishing your datasets

# EndNote Click and Scite working together...

The screenshot displays the ScienceDirect article page for "Worldwide decline of the entomofauna: A review of its drivers" by Francisco Sánchez-Bayo and Kris A.G. Wyckhuys. The page includes a left sidebar with navigation links (Outline, Highlights, Abstract, Keywords, etc.), a central article content area, and a right sidebar with recommended articles and article metrics. Two blue circles highlight specific features: one around the "View PDF" button in the bottom left, which includes an "EN" (EndNote) icon, and another around the "scite\_" citation analysis tool in the right sidebar, which shows citation counts and a "View details" link.

ScienceDirect Journals & Books Register Sign in

Download PDF Search ScienceDirect Advanced

Outline Highlights Abstract Keywords 1. Introduction 2. Methodology 3. Taxa declines 4. Discussion 5. Conclusions References Show full outline

Biological Conservation Volume 232, April 2019, Pages 8-27

Worldwide decline of the entomofauna: A review of its drivers

Francisco Sánchez-Bayo <sup>a,\*</sup>, Kris A.G. Wyckhuys <sup>b,c,d</sup>

Show more

+ Add to Mendeley Share Cite

<https://doi.org/10.1016/j.biocon.2019.01.020> Get rights and content

Figures (6)

View PDF EN

Highlights

- Over 40% of insect species are threatened with extinction.
- Lepidoptera, Hymenoptera and dung beetles (Coleoptera) are the taxa most affected.

Recommended articles

Analysing mammal citizen science data – A r...  
Biological Conservation, Volume 232, 2019, pp. 27...  
Purchase PDF View details

Long-term decline in the abundance of leaf...  
Biological Conservation, Volume 149, Issue 1, 2012...  
Purchase PDF View details

Ramifying effects of the risk of predati...  
Biological Conservation, Volume 232, 2019, pp. 335...  
Purchase PDF View details

scite\_ 9 335 3

Citing articles (540)

Article Metrics

Citations

Citation Indexes: 536

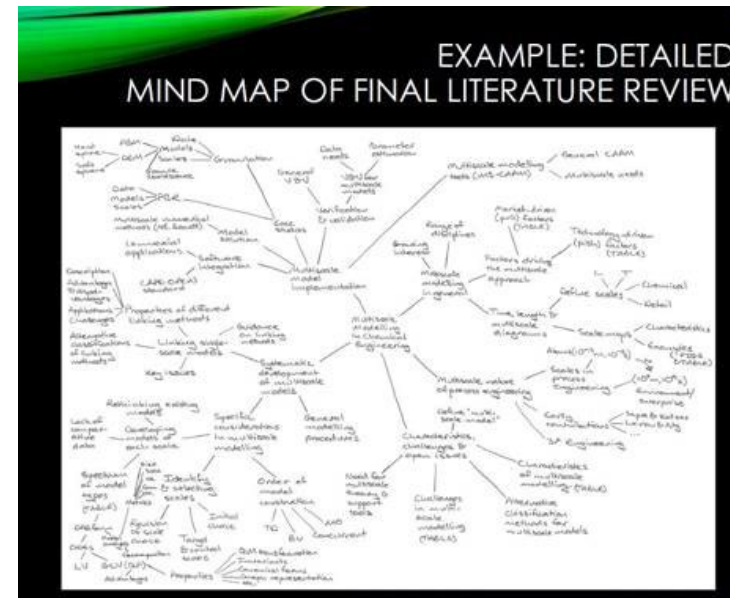
Captures

# Selection criteria for literature review

- Review articles that provide an overview of the literature on your thesis question
- Articles that are directly relevant to your research
- Articles that support your core hypothesis
- Articles that do not support your core hypothesis if identified, to ensure a critical evaluation of the literature
- Standards and/or patents and/or datasets if relevant

## Establish the parameters of your literature review coverage


A simple online or paper mind map may help:



## Mind Map of Final Literature Review by Gordon Ingram



## **2. Track research in your discipline**

 If there are problems with how this message is displayed, click here to view it in a web browser.  
Click here to download pictures. To help protect your privacy, Outlook prevented automatic download of some pictures in this message.



Search Alert: John de Laeter Centre

Your search alert called "John de Laeter Centre" has found 14 new results.

Row Number	Document Title	Authors	Year	Source
1.	Eocene arc magmatism and related Cu-Au (Mo) mineralization in the Shangalon-Kyungalon district, Wuntho-Popa Arc, northern Myanmar	Ye Htut, T., Qin, K., Li, G., Sein, K., Evans, N.J.	2020	Ore Geology Reviews, 125, art. no. 103678.
2.	Structural evolution of the eastern segment of the Irtysh Shear Zone: Implications for the collision between the East Junggar Terrane and the Chinese Altai Orogen (northwestern China)	Hu, W., Li, P., Rosenbaum, G., (...), Yuan, C., Sun, M.	2020	Journal of Structural Geology, 139, art. no. 104126.

# Research Tip - Alerts

Use **Alerts** to keep current on your research topic


- References to **articles on a topic or subject** search
- **Contents pages** of recent journal issues
- **Citations** to specific articles or authors
- **Google Scholar/web alerts**

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## **3. Tips to get your research published**


Curtin University

Library

# Research Toolkit

Library / Research Toolkit / Strategic Publishing / Getting started

## Strategic Publishing

Getting started

Publishing strategically
A balanced publishing strategy

Journals
Books
Non-traditional research outputs (NTROs)
Theses
Conference publications
Predatory Publishing
Open Access (OA) publishing
OA@Curtin
Preprints
ISBNs, DOIs and Legal Deposit
Maximising visibility and publishing impact
Videos of publishing workshops
Need publishing help?

### Publishing strategically

Strategic publishing involves taking a systematic approach to ensure you publish in the most effective place and maximise success in your publishing endeavours. Your publishing record will have a crucial impact on your career if you pursue academia or research and can be a valuable addition to your CV if you choose to work in industry or government.

Planning your publishing strategy will help you to:

- plan your project and its outcomes - how many papers are you aiming to write and in what time frame?
- set realistic expectations and define the boundaries of what is possible and desirable to achieve
- identify the right journal for your paper and determine your target audience
- amplify the impact of your research
- meet your employer's/funder's requirements
- put a focus on your career by determining where your career path is headed.

Read:

Tress Academy [Why you need a publishing strategy](#)

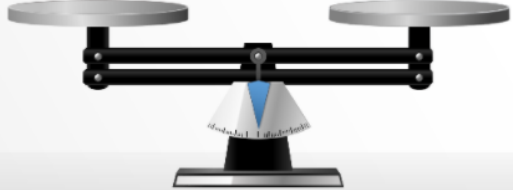
Anne-Wil Harzing [The four P's of Publishing](#)

Anne-Wil Harzing [The four C's of getting Cited](#)

### A balanced publishing strategy

**Scholarly publishing**  
**ERA**  
Journal articles...Book chapters  
Conference papers

**Impact**  
**ERA EI**  
Blogs...Social media...The  
Conversation...Research data



Balancing your publishing strategy...

<https://libguides.library.curtin.edu.au/strategicpublishing>

# Top publishing tips

- Journal articles – need to balance [finding a quality publisher](#) with the need for timely turnaround
- Read the journal's authors' guidelines and follow them – word counts, referencing style, keywords, copyright, spelling Eng/USA
- Read articles in the journal or works published by the publisher – ensure your research is a good fit
- Predatory publishers – if it's too good to be true, it will not be true – more on this shortly

[Learn more here](#)

# Interactive guide: Copyright for HDR students

- Check a journal's author guidelines for any advice on re-use of copyright materials such as figures, images, graphs, diagrams and more.
- Rightslink, Permissions request template – must declare in thesis

## **Thesis by compilation**

- Publisher agreements – look for the version that can be shared and any embargo period
- Ensure author attribution statements are included for co-authors

# Predatory Publishers

“Predatory journals and publishers are entities that prioritize self-interest at the expense of scholarship and are characterized by false or misleading information, deviation from best editorial and publication practices, a lack of transparency, and/or the use of aggressive and indiscriminate solicitation practices.” [Nature](#), 11 December 2019

- Payment required, quick turnaround time
- Damage to the reputation of the researcher & institution
- Loss of research, and publisher retains copyright – can’t re-publish
- Send unsolicited emails to get you to submit your research

[Learn more here](#)



## **4. How to promote your research, yourself and your publications**

# Milestone One – ORCID ID

An ORCID ID is a persistent digital identifier unique to you that distinguishes your research output from other researchers and links your name to your research to ensure a consistent, reliable attribution of your work

[Register for your ORCID](#)

Other researcher identifiers can be linked to your ORCID

# More Researcher Identifiers

Scopus author ID

ResearcherID

Google Scholar Profile

These identifiers connect authors with their publications in that database

Take a look at the [Research Identifiers Checklist](#)

# More research promotion tips

- DOI for all your outputs – papers, datasets, code
- Preprint servers- Get advice from the research community on your work eg Chemistry and Astronomy
- Promote your research in the media and social media

[Learn more here](#)



## **5. Where to get help**

# Document Delivery

If you find that perfect article, book, thesis, Standard... but we don't have it at Curtin...

Request document delivery

Journal articles  
Standards  
Theses

Recommend a new item

(Scroll to the bottom of the page)

Books  
Databases  
New journal titles

# Skills and Software training

- Endnote
- Referencing
- Writing essentials
- Time management
- Qualtrics, Nvivo, Statistics, SPSS, Excel

<https://bookings.library.curtin.edu.au/calendar/workshops>

**SAELibrarian@curtin.edu.au**



# Questions

GRASP webpage

<https://libguides.library.curtin.edu.au/grasp>

Help

[LibraryResearchSupport@curtin.edu.au](mailto:LibraryResearchSupport@curtin.edu.au)

Feedback (Stop – Start – Continue)

[https://docs.google.com/spreadsheets/d/1t7roPInys2xK\\_0zY69ivY9s09ZNs2iY\\_byLVdCSKD7M/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1t7roPInys2xK_0zY69ivY9s09ZNs2iY_byLVdCSKD7M/edit?usp=sharing)