

Spring 2024

Literature management with Zotero

Janina Radny

Lib4RI Training series: Searching & Managing Scientific Information

- Module 1: Searching Scientific Information
- Module 2: Scientific Publishing
- Module 3: Open Access & Copyright
- **Module 4: Literature Management**
 - 4a: With EndNote
 - **4b: With Zotero**
- Module 5: Getting started with LaTeX
- Module 6: Work on Your Own Project
- Module 7: Research Data Management – The Basics



Searching & Managing Scientific Information

Training series

Spring 2024

Modules:

- 1 Searching Scientific Information
- 2 Scientific Publishing –
From Writing to Sharing
- 3 Open Access & Copyright
- 4a Literature Management with EndNote
- 4b Literature Management with Zotero (NEW)
- 5 Getting Started with LaTeX
- 6 Work on Your Own Project
- 7 Research Data Management – The Basics

Course sites:

Eawag: Dübendorf
Empa: Dübendorf
PSI: Villigen
WSL: Birmensdorf

Online registration:

www.lib4ri.ch/trainings

Outline

9:00 – 9:15	Introduction to literature management
9:15 – 10:45	Hands-On Zotero I
10:45 – 11:00	Break
11:00 – 12:30	Hands-On Zotero II

Where are you in your PhD journey?

Just starting

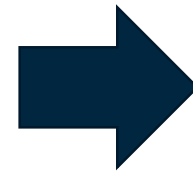
Preparing your first publication(s)

Almost completed



Collecting information

Put your research in context



Collecting stuff is easy -
finding it again can be difficult...

Adobe Firefly: “an unsorted pile of research papers on a messy table”

Literature management software helps to:

Organize

- Gather and import information
- Read, mark and annotate
- Group and connect resources

Cite

- Compile a consistent bibliography
- Adapt citations to the journal style

Collaborate

- Share references with your co-authors

Open source



JabRef

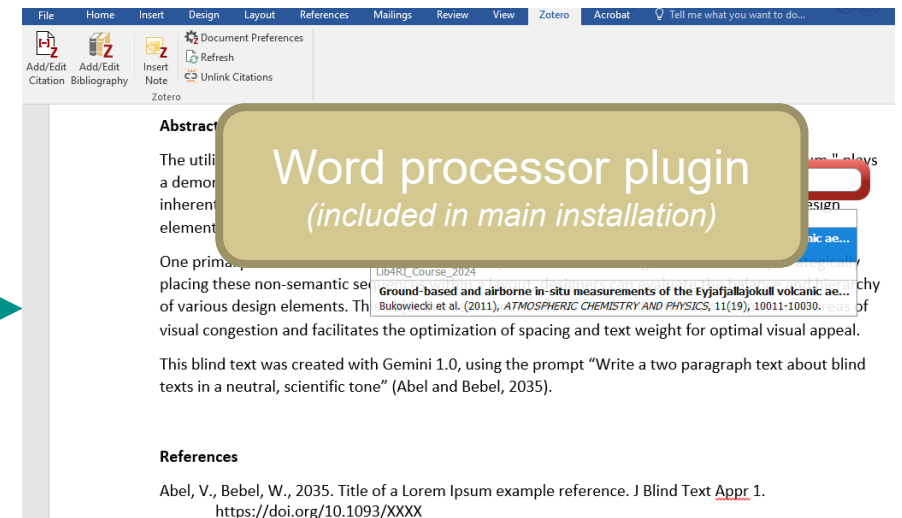
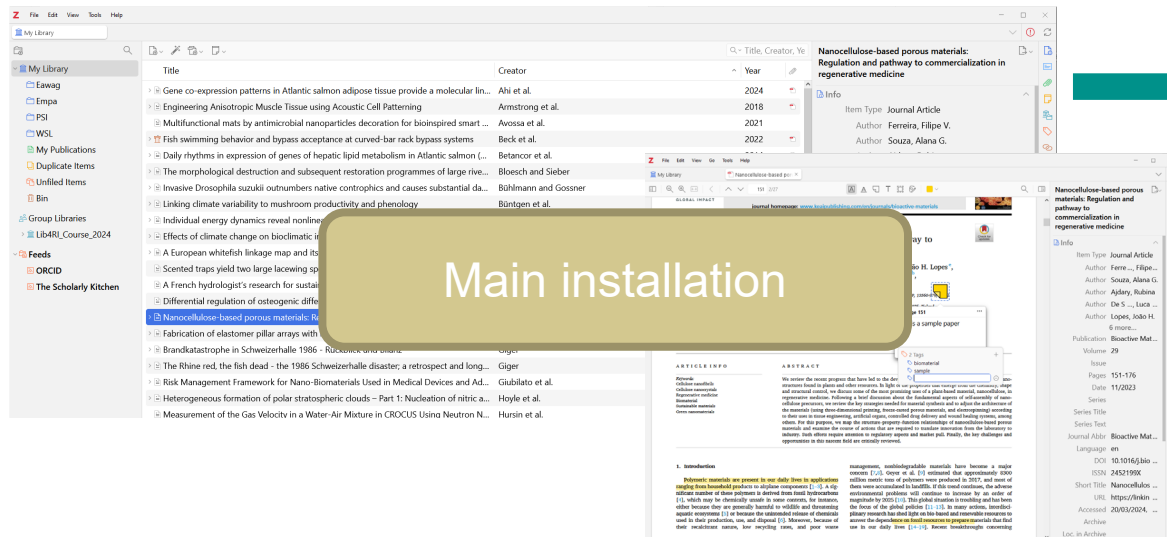
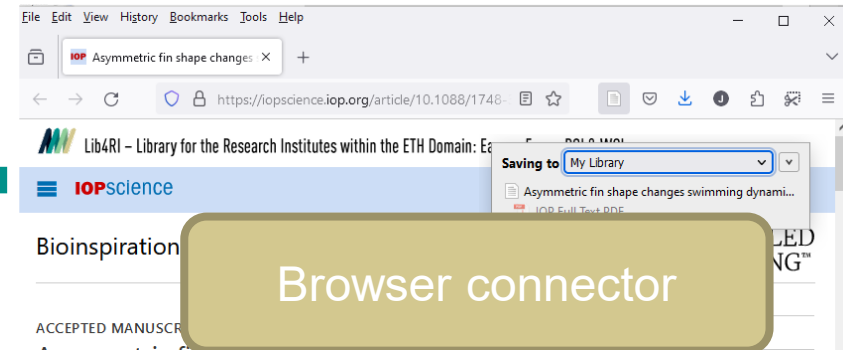
Commercial



and many more...

Zotero

- Free and open source
- Well-structured interface and integrated reader (Zotero 6)
- Import with one click
- Cite-while-you-write



System requirements

Main installation

- Windows 7 or later, macOS 10.11 or later, Linux
- *Not tested: iOS, Android (Beta Version)*

Browser connector

- Chrome 55 or later, Firefox 60 or later, Safari on macOS Big Sur or later

Word processor / Writing

- MS Word 2010-2021, Office 365
- Word for Mac 2016-2021 or Office 365
- *Not tested: Libre Office 5.2 or later*

Other options

- Google docs
- LaTeX, Overleaf (premium account or import *.bib)
- *Not tested: Jupyterlab (plugin required), Quarto*

Used for this lecture:

- Zotero 6
- Firefox 126
- MS Office Professional Plus 2016

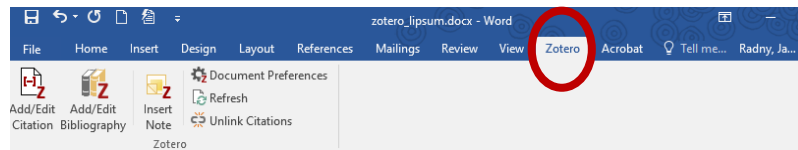
Check your installation

You should see:

- Desktop shortcut and/or menu entry to start main installation



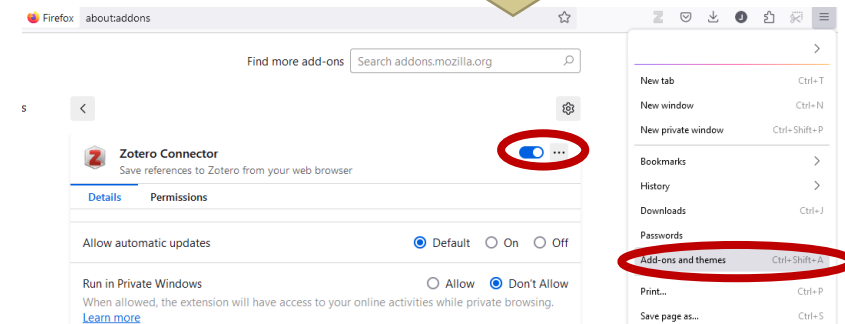
- Zotero tab in you text editor



- Symbol in your browser (varies with item type)



Not visible?
Make sure the add-on is activated!



Hands-on literature management

Five-step workflow in literature management*

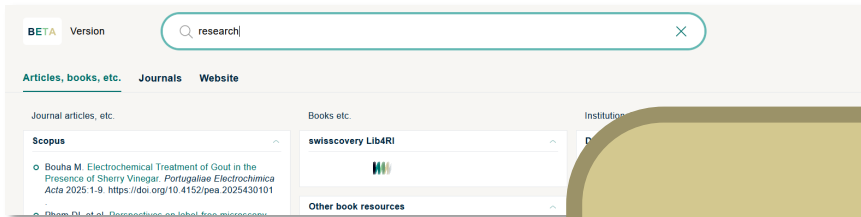
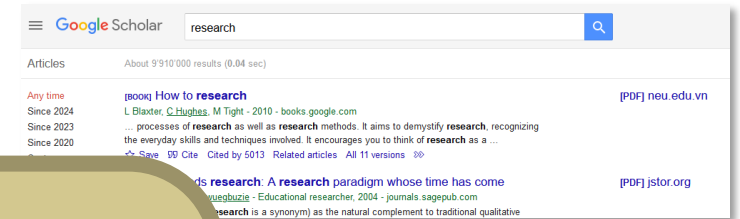
- **Step 1:** Get literature
- **Step 2:** Organize your library
- **Step 3:** Read, annotate, connect
- **Step 4:** Cite-while-you-write
- **Step 5:** Sync and collaborate

*My personal workflow

Step 1: Get literature

Fantastic publications and where to find them

arxiv.org/ (pre-prints)

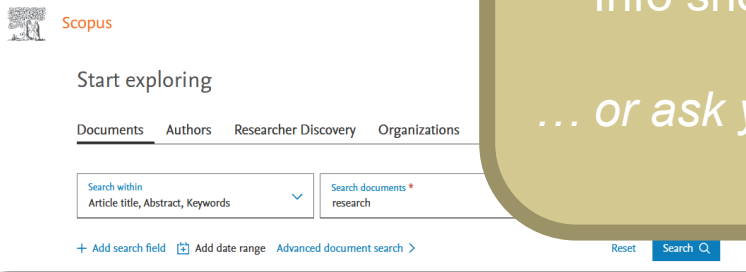


More info? Check out our training resources!

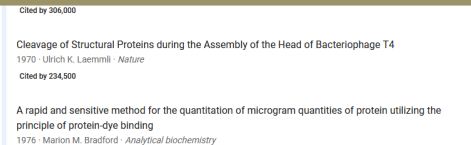
- Training module 1: [Searching Scientific Information](#)
- Info sheet: [Topic Search](#)

... or ask your friendly librarian!

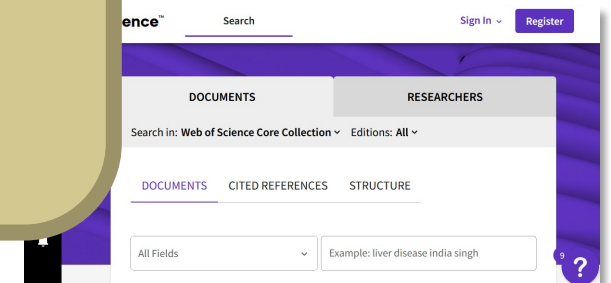
scholar.google.com



scopus.com



openalex.org



webofscience.com

Import via browser connector

The image illustrates the process of importing a document from a browser into a Zotero library. It shows a browser window with a Copernicus article and a Zotero library window. A red arrow indicates the flow of information from the browser to the library. The Zotero window displays a table of items, with a red box highlighting a specific entry. This entry has a note and a PDF attachment. Red arrows point from these attachments to text labels: "Attachment, e.g. PDF, note or URL" and "Metadata and additional information". The right pane of the Zotero window shows detailed metadata for the selected item.

Title	Creator	Year
Ground-based and airborne in-situ measureme...	Bukowiecki et al.	2011
Note to myself: practice saying Eyafjallajökull		
Bukowiecki et al_2011_Ground-based and airb...		

Item => Unique entry in your library

Attachment, e.g. PDF, note or URL

Metadata and additional information

Info Notes Tags Related

Item Type Journal Article

Title Ground-based and airborne in-situ measurements of the Eyafjallajökull volcanic aerosol plume in Switzerland in spring 2010

- Author Bukowiecki, Nicolas
- Author Zieger, Paul
- Author Weingartner, Ernest
- Author Jurányi, Zsófia
- Author Gysel, Martin

5 more...

(...) Abstract Abstract. The volcanic aerosol plu...
Publication Atmospheric Chemistry and Physics

Item types

- Depending on the item type, different metadata is included, e.g.
 - Publication (journal name) for articles
 - Edition number for books
 - Access date for web resources
 -

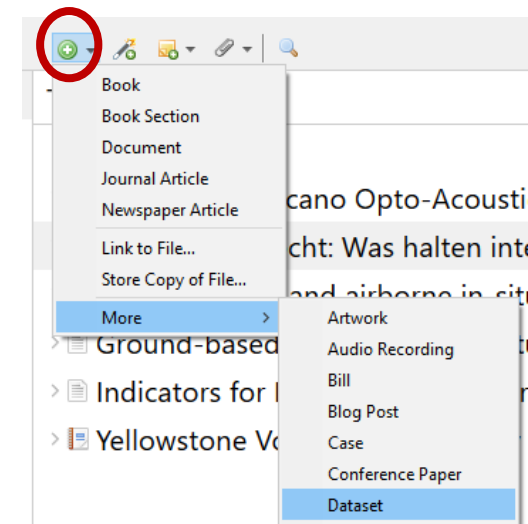
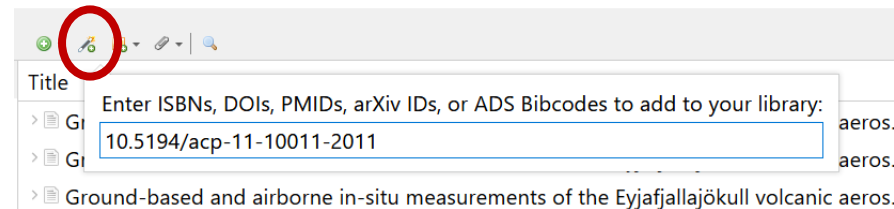
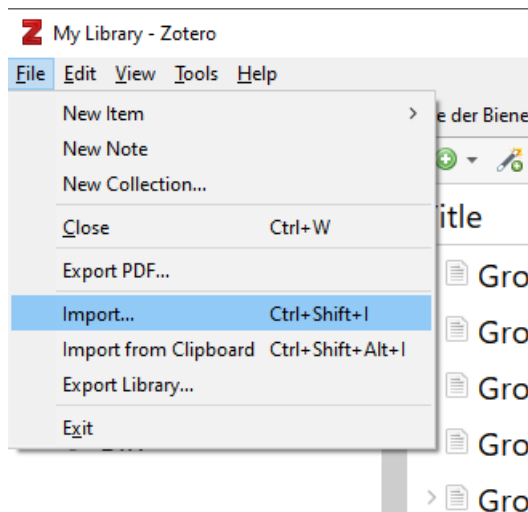
The screenshot shows the Zotero application window. On the left, a list of items is displayed with columns for Title, Creator, and Year. The second item, 'Atmospheric Aerosols and Climate Impacts' by Kanakidou (2013), is selected. On the right, the 'Info' tab is active, showing the item's metadata. The 'Item Type' is 'Book Section'. The 'Title' is 'Atmospheric Aerosols and Climate Impacts'. The 'Editor' is 'Colbeck, Ian'. The 'Author' is 'Kanakidou, Maria'. The 'Book Title' is 'Aerosol Science' and the 'Series' is 'Aerosol Science'.

Title	Creator	Year
> Aerosol science: Technology and Applicat...	Colbeck	2014
> Atmospheric Aerosols and Climate Impacts	Kanakidou	2013
> Erneuter Vulkanausbruch auf Island bedr...		2024
> Eyjafjallajökull – Der unaussprechliche Vu...		2021
> Ground-based and airborne in-situ meas...	Bukowiecki et al.	2011

The screenshot shows the 'Item Type' dropdown menu in the Zotero application. The menu is open, showing a list of item types. 'Book Section' is highlighted in blue. Other visible item types include Artwork, Audio Recording, Bill, Blog Post, Book, Case, Conference Paper, Dataset, Dictionary Entry, Document, E-mail, Encyclopedia Article, Film, Forum Post, Hearing, Instant Message, Interview, Journal Article, Letter, Magazine Article, Manuscript, Map, Newspaper Article, Patent, Podcast, Preprint, Presentation, Radio Broadcast, Report, Software, Standard, Statute, Thesis, TV Broadcast, Video Recording, and Web Page.

Other import options I

- *File > Import* for collections, e.g. other reference managers (*.bib, *.ris)
- Import wizard for DOI, arXiv IDs etc
- Add by hand



Other import options II

- Drag & Drop PDFs – metadata is added from OCR or embedded information
- Does not work for all documents – missing information can be added manually

CHAPTER 5
In Support of Data-Intensive Science at the University of Washington
 Jenny Muilenburg

Introduction
 The University of Washington has been active in data-intensive science efforts for over a decade, both through the establishment of the eScience Institute (<http://escience.washington.edu>) as well as the University's participation in the Moore-Sloan Data Science Environment grant (<http://msdse.org>). These efforts have impacted the university environment in the areas of research, education and support services such as libraries. This chapter will explore the University of Washington Libraries in particular, considering the changes to services, strategies and infrastructure required to support students, staff and faculty pursuing data-intensive work.
 There are three major takeaways:

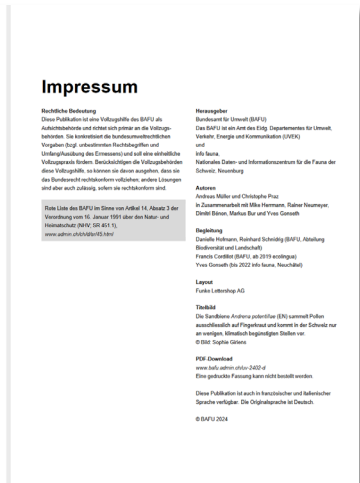
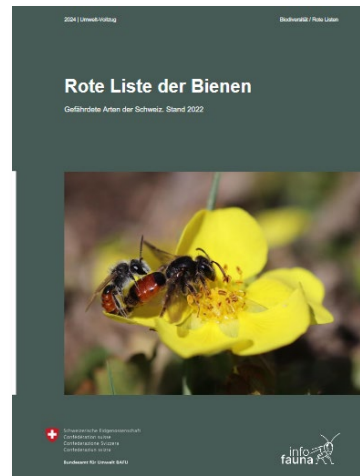
- 1 Networking and collaboration are essential to provide support for data science.
- 2 Support for data science can be provided with a variety of staffing, expertise and funding models – as long as there is administrative support as well as a culture of networking and collaboration.
- 3 The evolution in library services and interdepartmental relationships will continue, making agility and responsiveness essential to the continued relevance and success of libraries.

Background
 The University of Washington (UW) is well known for its computer science and engineering programs (www.usnews.com/best-graduate-schools/top-science-schools/computer-science-rankings) and is regularly ranked as one of the US's premier research-intensive universities (www.cs.washington.edu/)



Info Notes Tags Related

Item Type Book Section
 Title In Support of Data-Intensive Science at the University of Washington
 Editor Herndon, Joel
 Author Muilenburg, Jenny
 Abstract
 Book Title Data Science in the Library
 Series
 Series Number
 Volume
 # of Volumes
 Edition 1
 Place
 Publisher Cambridge University Press
 Date 2021-12-20
 Page 83 pp



Info Notes Tags Related

Item Type Journal Article
 Title Rote Liste der Bienen
 Author (last), (first)
 Abstract
 Publication
 Volume
 Issue
 Pages
 Date 2024
 Series
 Series Title
 Series Text
 Journal Abbr
 Language de
 DOI
 ISSN
 Short Title
 URL
 Accessed
 Archive
 Loc. in Archive
 Library Catalogue Zotero
 Call Number
 Rights
 Extra
 Date Added 23/05/2024, 11:09:03
 Modified 23/05/2024, 11:09:03

pdflib.org/10.29085/9781783394615.006 Published online by Cambridge University Press

Hands-On: Add literature

N. Bukowiecki *et al.*, **Ground-based and airborne in-situ measurements of the Eyjafjallajökull volcanic aerosol plume in Switzerland in spring 2010**, *Atmospheric Chemistry and Physics*, vol. 11, no. 19, pp. 10011–10030, Oct. 2011, doi: [10.5194/acp-11-10011-2011](https://doi.org/10.5194/acp-11-10011-2011).

Task: Import to your Zotero library from

- Web of Science
- Scopus
- Google Scholar (directly, not following the link)
- Zotero import wizard using the DOI number
- **Can you detect any differences?**

Hint: Get all links directly via the [Lib4RI search tool](#)

Metadata may differ between sources

- Google Scholar did not retrieve an abstract, but provides **author full names**
- Web of Science includes **keywords** (more: support.clarivate.com), publication name is all caps
- Scopus provides **citation count** as note
- DOI import (via Crossref) provides **rights information** (more: lib4ri.ch/copyright-cc-licences)

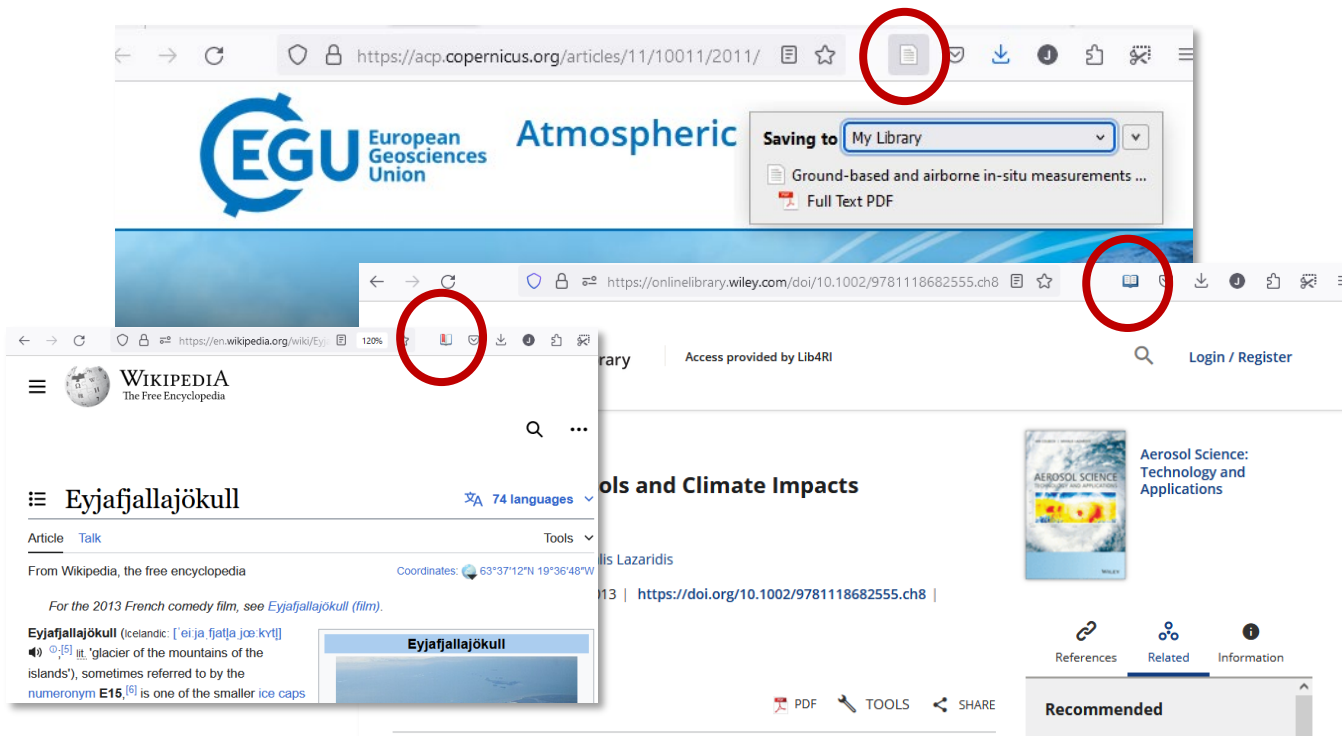
Keep in mind:

- Metadata can be incomplete
- Errors may happen, especially with third party sources
- Encoding or typesetting can be different (special characters, all caps...)

Good news: In general a minor problem and if necessary cleaning metadata is easy

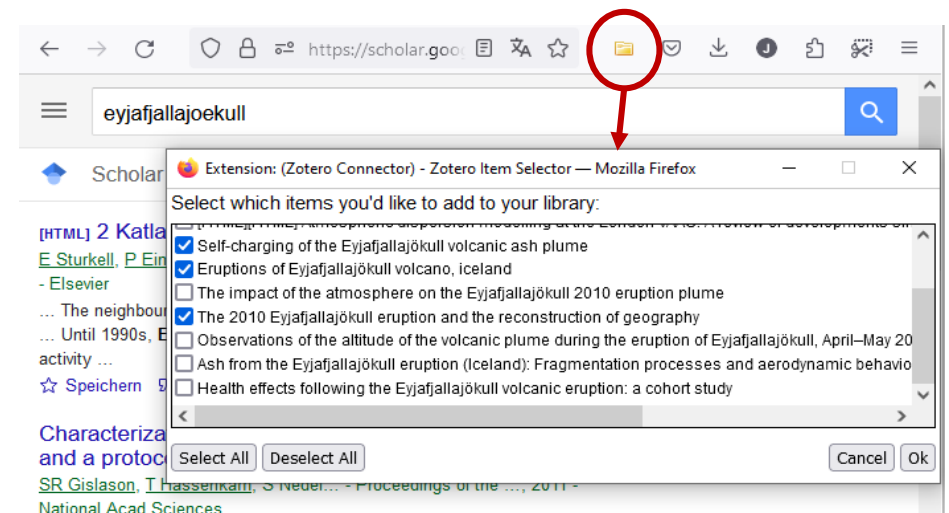
Single import

- Only one item with metadata is available
- Various item types with different metadata entries



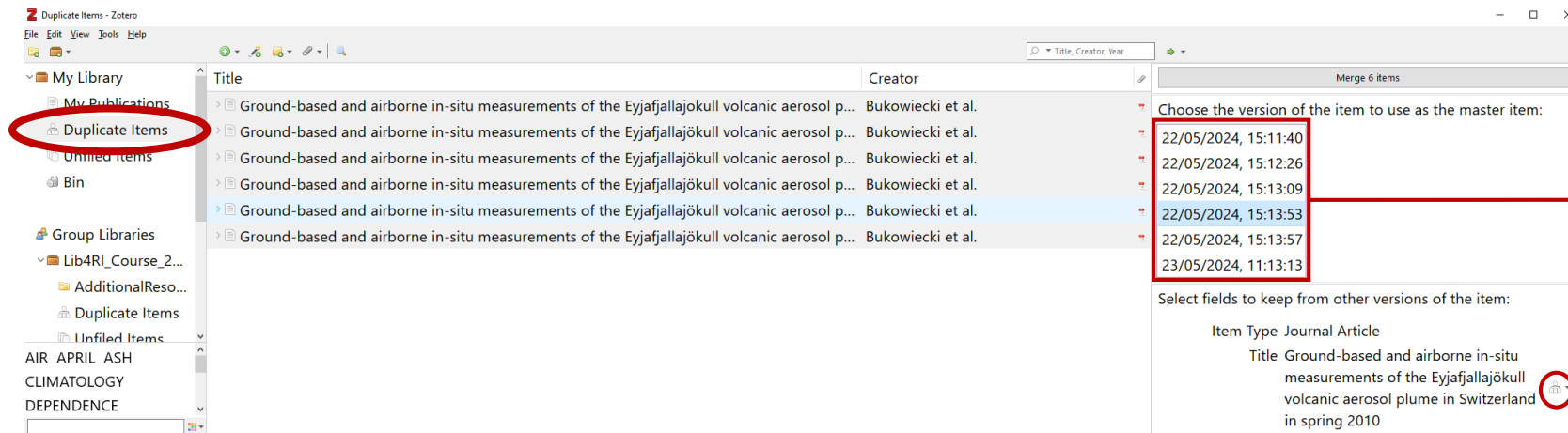
Bulk import

- Several items with metadata are available
- Select the desired items



Step 2: Organize your library

Hands-On: Organize literature



Select a version for master item

Specify versions of a given field

Task: Merge duplicate items

- Select a master version
 - Master version defines all field entries
- Specify field versions to include:
 - Author full names
 - Rights information
 - Journal title is **not** all caps
 - Abstract (with umlaut)
 - Journal abbreviation
 - DOI

After merging:

The screenshot shows the Zotero desktop application. In the left sidebar, under 'My Library', there is a list of keywords: 'AIR APRIL ASH CLIMATOLOGY DEPENDENCE DISPERSION DUST JUNGFRAUJOCH PERFORMANCE SCATTERING'. This list is circled in red. The main pane displays the details of a journal article titled 'Ground-based and airborne in-situ measurements of the Eyjafjallajökull volcanic aerosol plume in Switzerland in spring 2010' by Bukowiecki et al. The metadata includes authors (Bukowiecki, Nicolas; Zieger, Paul; Weingartner, Ernest; Jurányi, Zsófia; Gysel, Martin), publication details (Atmospheric Chemistry and Physics, Volume 11, Issue 19, 2011), and a DOI (10.5194/acp-11-10011-2011).

Note:

- Sometimes items are not recognized as duplicates
 - Case-sensitive, typos...
- Select items to be merged and right-click to enforce merging
- All items of the same type can be merged, e.g. journal article with journal article, but not book section

Additional data remains in the item after merging:

- Keywords and tags
- Notes
- Annotations

Hands-on: Bulk import from DORA

- In [DORA](#), search for a topic of your choice
- Bulk import the first page of results



Example library:

The screenshot shows the Zotero application window titled "My Library - Zotero". The interface is divided into several panes:

- Collections pane:** Located on the left, it shows a tree view with "My Library" selected, containing sub-items like "My Publications", "Duplicate Items", "Unfiled Items", "Bin", and "Group Libraries" (with "Lib4RI_Course_2024" listed below).
- Tag selector:** A small box at the bottom left containing the text "No tags to display".
- Library content:** The central pane displays a list of items with columns for "Title" and "Creator". The list includes items such as "Aquatic thresholds for ionisable substa...", "Assessing Environmental Risks during t...", "Association between the number of sy...", "Bioconcentration Assessment of Three ...", "Can online interfaces enhance learning ...", "Comparing the adsorption of micropoll...", "Ecological character displacement amo...", "Fate and effects of microplastic particle...", "Flood Water Depth Prediction with Con...", "Gas equilibrium membrane inlet mass s...", "Harnessing Computational Methods to ...", "Microbial community history and leaf s...", "Notes from the past show how local va...", "Organ-specific biotransformation in sal...", "Relation of organic fractions in fresh an...", "Testing for a role of postzygotic incom...", "The dependence of forecasts on sampli...", "The Link Between Social-Ecological Net...", "The shape of density dependence and t...", and "Towards non-contact pollution monitor...". A red circle highlights the missing fulltext icons (represented by red 'f' symbols) for several items in this list.
- Item pane:** Located on the right, it displays the details for the selected item. It includes tabs for "Info", "Notes", "Tags", and "Related". The "Info" tab is active, showing fields like "Author K..., A...", "Author V..., P...", "Author K..., ...", "Author S..., ...", "Author J..., ...", "Abstract", "Publication Science of The Total Environment", "Volume 908", "Issue", and "Pages 168222".

Some fulltext is missing!

Collections pane

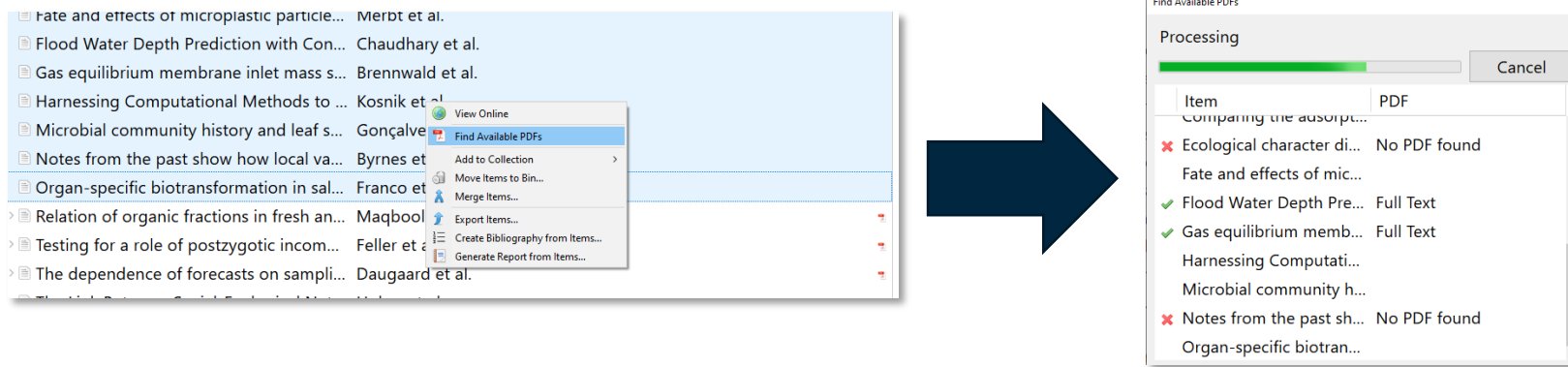
Tag selector

Library content

Item pane

Hands-on: Retrieve missing full text

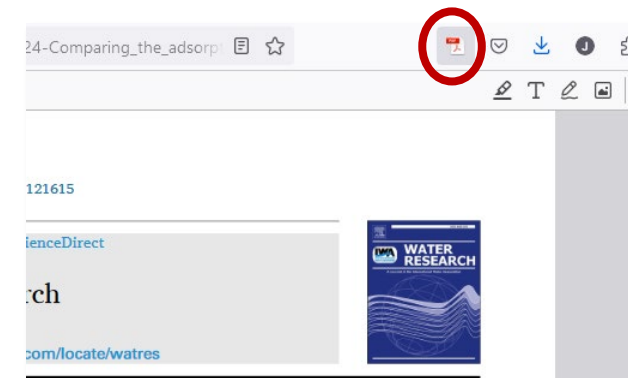
- **Solution I:** Right-click for context menu -> Find available PDFs



- **Solution II:** Retrieve from source via browser connector

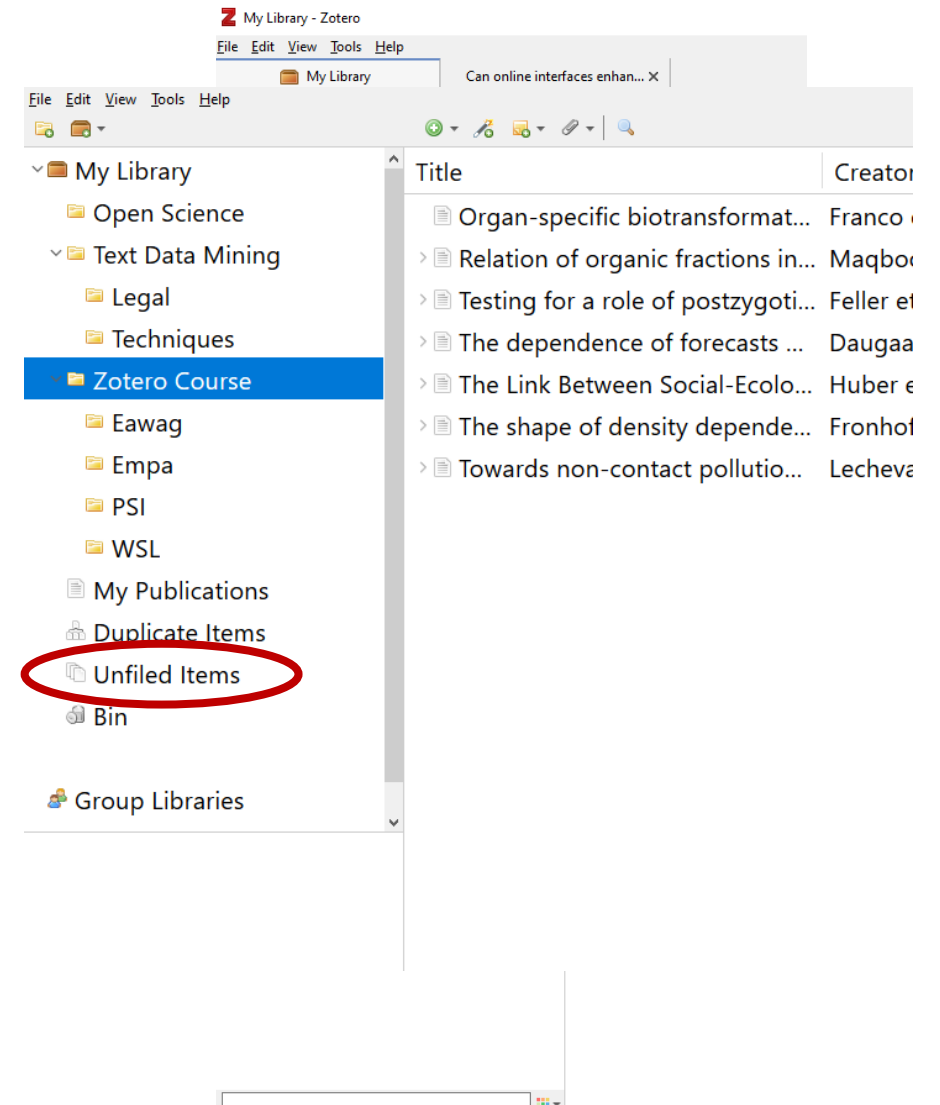
- Double-click item to go to the linked source
- Import the PDF via Browser Connector or download and attach the file to the item via drag & drop

- **Solution III:** No chance to retrieve the PDF?
Get in touch with the [Lib4RI document delivery service!](#)



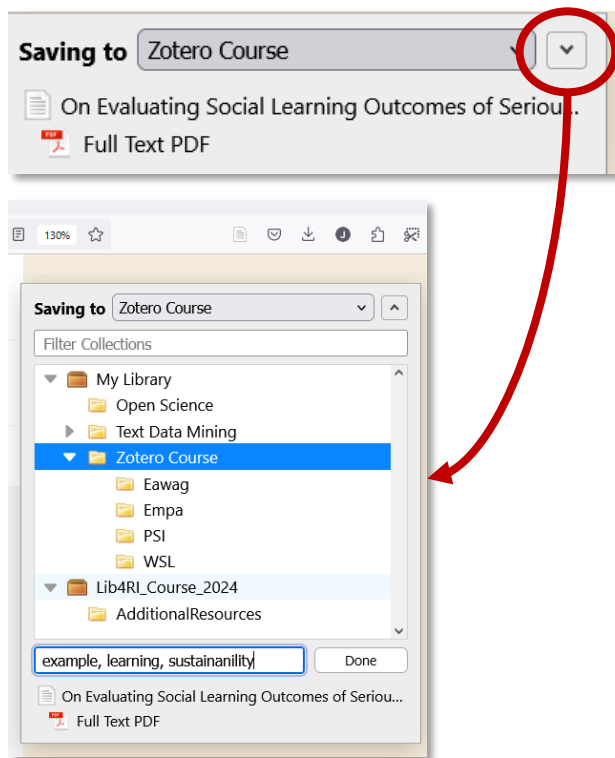
Organizing your library

- Main and default: My Library
 - Cannot be deleted or renamed
 - All items are visible here -> hard to keep overview
- **Solution:** Organize items in collections
 - Projects or topics could be a collection
 - Can be refined with sub-collections
 - Drag & drop items to **copy** into any collection
 - Hold Shift (Win/Linux) or Cmd (Mac) to **move** items from one collection to another
- Unfiled items are not part of any collection



Hands-on: Importing to collections

- Create a new collection (*File > New Collection* or *Right-click in Collections pane*)
- Import an item (publication, website, Wikipedia...) directly into the new collection



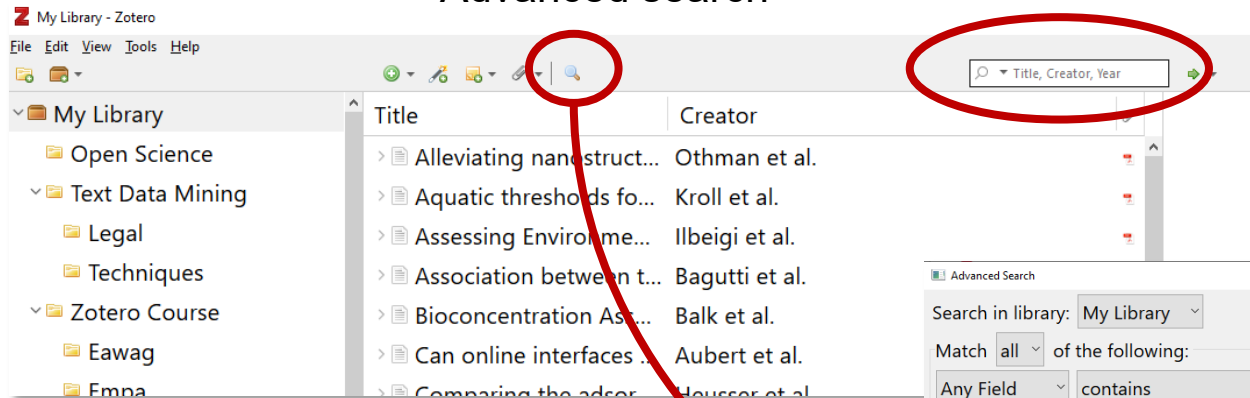
Hint:
Pop-up gone too fast? Zotero will always save items to the collection selected in the main installation

Titl	Creator	Year	Info	Notes	Tag
Alila et al.		2024			
Aubert et al.		2024			
Bagutti et al.		2024			
Balk et al.		2024			
Brennwald et al.		2024			
Byrnes et al.		2024			
Chaudhary et al.		2024			
Daugaard et al.		2024			
Den Haan and Van der Voort		2018			

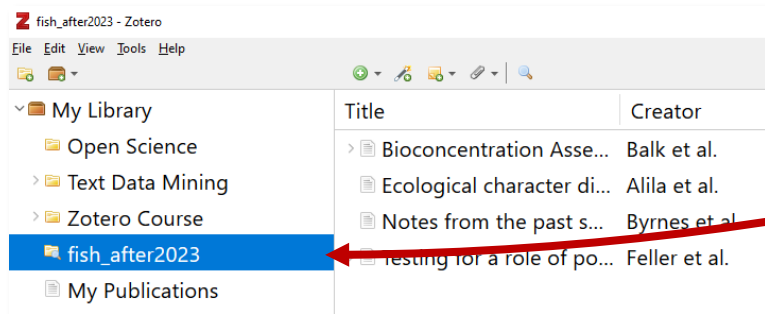
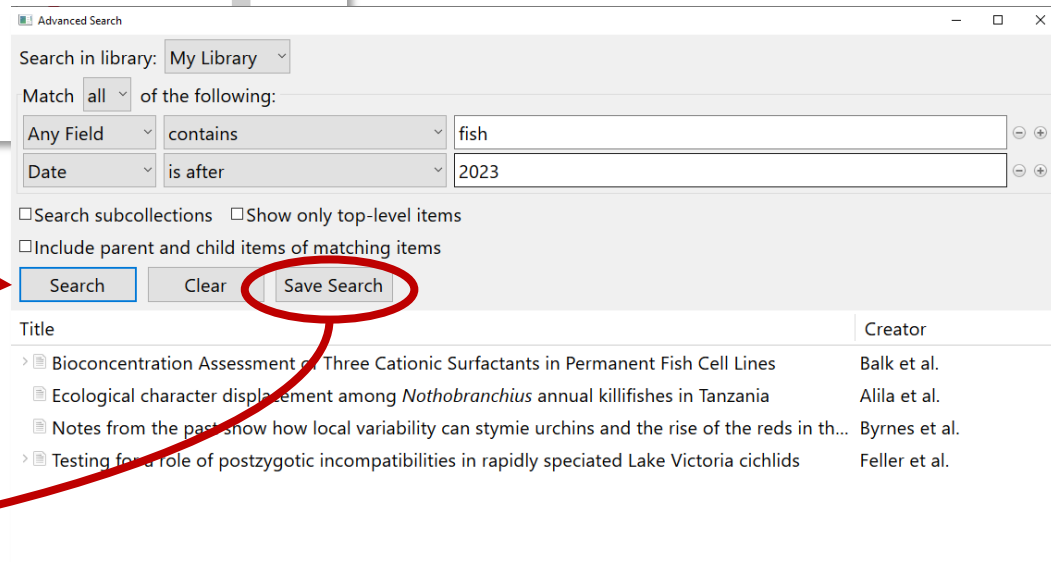
Finding items

Advanced search

Quick search



Hint:
Make sure to import the abstract
to boost advanced search



Step 3: Read, annotate, connect

Document reader

- Cross-references (citations, tables, figures...)
- Partially outgoing links
- Search in text
- Highlight sections
- Add notes to document or highlighted parts

The screenshot shows the Zotero document reader interface. At the top, there are search and navigation icons. A search box on the right contains the word "interventions" and shows "1 of 6 matches". A red circle highlights the search box. Below the search box, there are options for "Highlight all", "Match case", and "Whole words". The main document area shows a PDF page with a highlighted section in yellow. A red arrow points from the highlighted text to a citation in the bibliography at the bottom. The citation is: "Thompson, J. P., Howick, S., & Belton, V. (2016). Critical learning incidents in system dynamics modelling engagements. *European Journal of Operational Research*, 249(3), 945-958. <https://doi.org/10.1016/j.ejor.2015.09.048>".

decision analysis - Aubert et al. - 2024 - Zotero

Thompson, J. P., Howick, S., & Belton, V. (2016). Critical learning incidents in system dynamics modelling engagements. *European Journal of Operational Research*, 249(3), 945-958. <https://doi.org/10.1016/j.ejor.2015.09.048>

Toffano, F., Garraffa, M., Lin, Y., Prestwich, S., Simonis, H., & Wilson, N. (2022). A multi-objective supplier selection framework based on system dynamics. *Operations Research*, 308(1), 609-640. <https://doi.org/10.1007/s10479-021-04251-5>

Triantoro, T., Gopal, R., Benbunan-Fich, R., & Lang, G. (2019). A comparison of a gamified survey with a traditional online survey method. *International Journal of Research*, ...

* Corresponding author.
E-mail address: aube@zhaw.ch (A.H. Aubert).

<https://doi.org/10.1016/j.ejor.2023.10.031>

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0377-2217/© 2023 The Author(s). Published by Elsevier B.V. This is an open access article under the CC BY license (<http://creativecommons.org/licenses/by/4.0/>).

Using tags

- Notes, highlights and entire items can be tagged
- Library can be filtered for tags
- Important tags can be assigned with a colour (right-click on tag)
 - Only tags on items are visible with colour in the library
 - Filtering applies to all tags (including tags in notes and highlights)

The screenshot shows the Zotero 'My Library' window. On the left, a sidebar lists various tags such as 'sustainability', 'learning theory', 'cite urgently!', 'AIR', 'another tag', 'APRIL', 'ASH', 'assessment', 'author', 'CLIMATOLOGY', 'DEPENDENCE', 'DISPERSION', 'document note', 'DUST', 'evaluation', 'example', 'highlight note', 'JUNGFRAUJOCH', 'learning', 'learning environment', 'natural resources management', 'PERFORMANCE', 'SCATTERING', 'serious gaming', 'simulation gaming', and 'social learning'. The main pane displays a table of items:

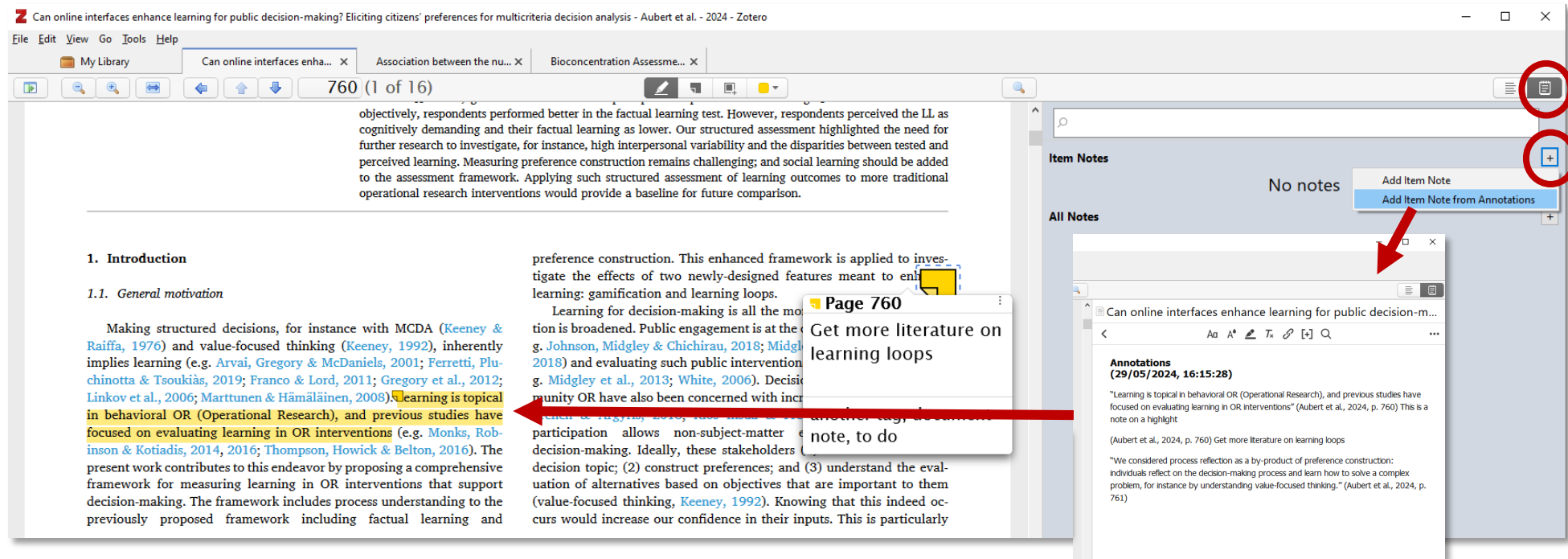
Title	Creator	Y...
Complex Modulus Te...	Francken et al.	1996
Ground-based and...	Bukowiecki et al.	2011
On Evaluating Soci...	Den Haan and Van ...	2018
Ecological character ...	Alila et al.	2024
Can online interf...	Aubert et al.	2024
Association betwe...	Bagutti et al.	2024
Bioconcentration Ass...	Balk et al.	2024
Balk et al. - 2024 - ...		
Method for pressu...	Balmelli et al.	2024
Time-Resolved Oxid...	Beall et al.	2024
Operando Observati...	Bernasconi et al.	2024

The 'Ecological character ...' item is selected, and a dropdown menu is open showing a search box with 's' entered and a list of suggestions: SCATTERING, serious gaming, simulation gaming, social learning, and sustainability. An 'Add' button is visible above the search box.

Hands-on: Annotations and item notes (requires Zotero 6)

- Annotations are highlights or sticky notes in the item text
- Item notes are assigned to the item as a whole, e.g. your own thoughts

Task: Make some annotations and create an item note from that



Relating items

- Make relations between items, e.g. book and book chapter, comments on publications...

The screenshot shows the Zotero interface. At the top, a table lists several items with columns for Title, Creator, and Year. The 'Related' tab is highlighted with a red circle. Below the table, a dropdown menu shows '1 related:' with an 'Add' button and a list of related items, including 'Atmospheric Aerosols and Climate Impacts'. A red arrow points from this dropdown to a smaller inset window titled 'Select Items', which shows a list of items with 'Atmospheric Aerosols and Climate I...' selected.

Title	Creator	Year
A 2,000-Year Record of Eelgrass (Zoster...	Dahl et al.	2024
Adaptation pathways for effective respo...	Muccione et al.	2024
Aerosol science: Technology and Applic...	Colbeck	2014
Applying global warming levels of emer...	Gampe et al.	2024
Atmospheric Aerosols and Climate Imp...	Kanakidou	2013
Carbon allocation in Picea jezoensis: Ad...	Dong et al.	2024

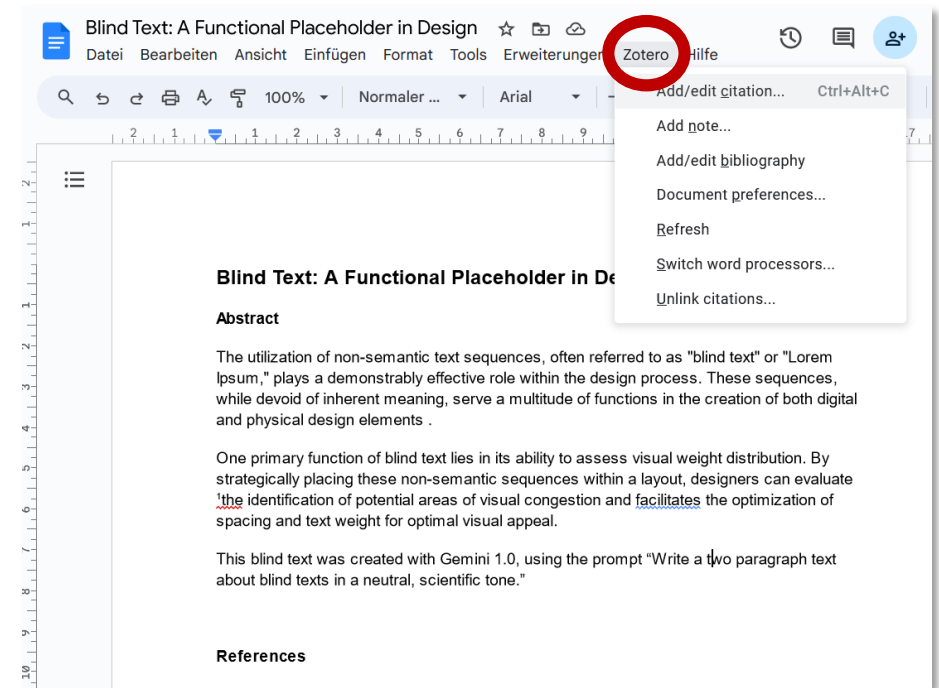
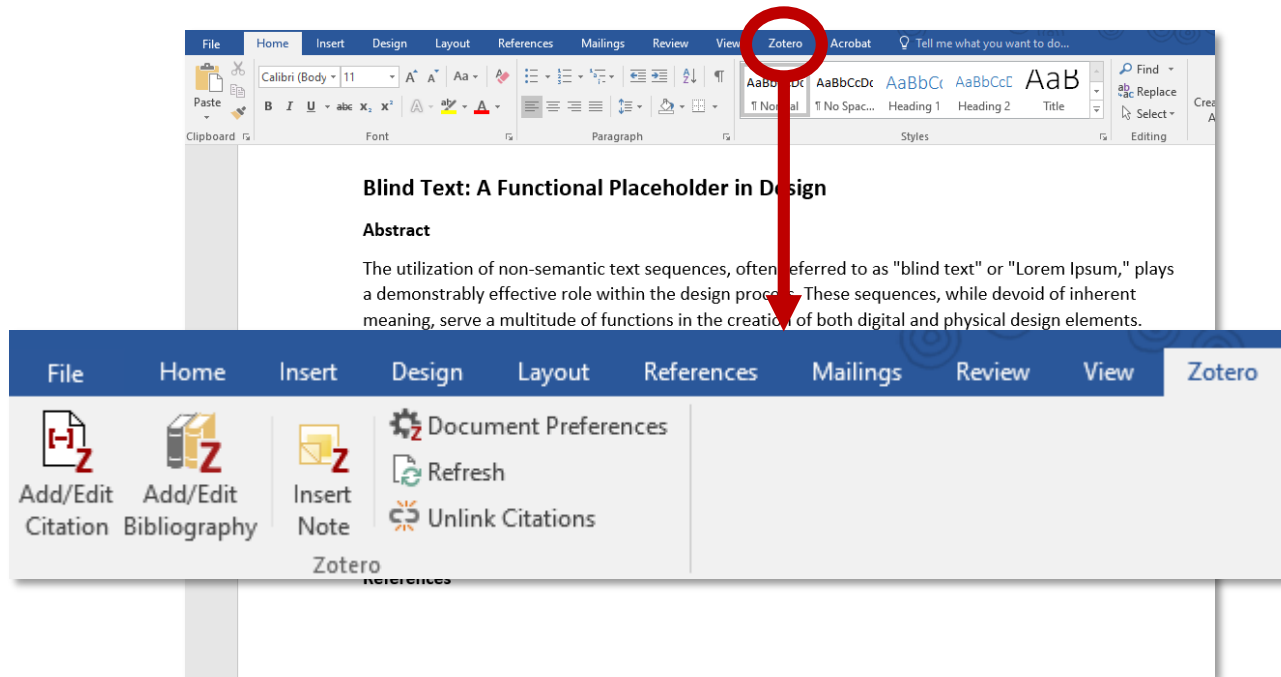
Hint:

- To identify clusters in topics, citations or collaborations, use [bibliometric analysis](#)
- Tools like [VOSviewer](#) or [ResearchRabbit](#) can help you to visualize relations between publications

Step 4: Cite-while-you-write

Hands-on: Cite-while-you-write

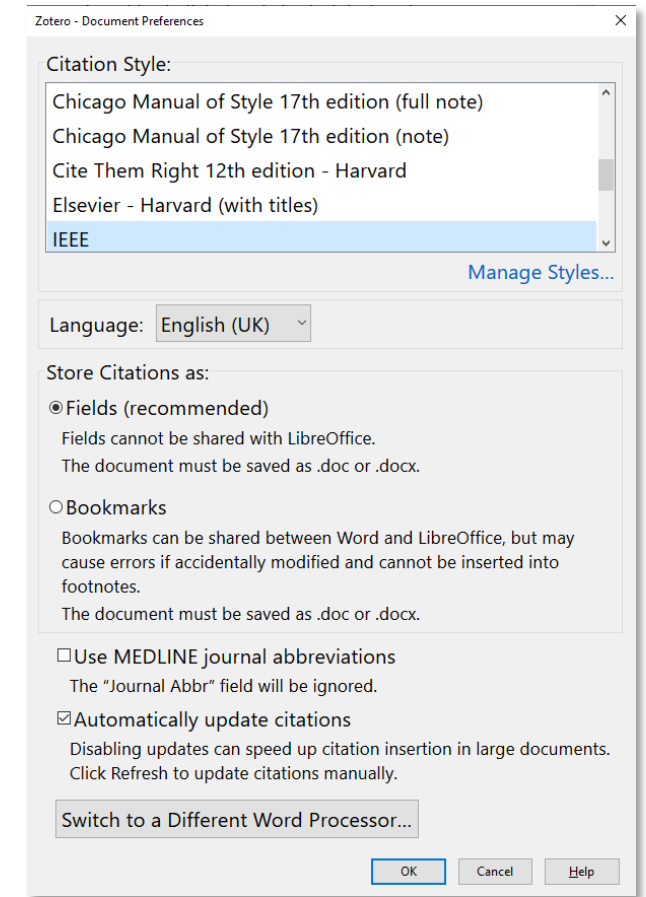
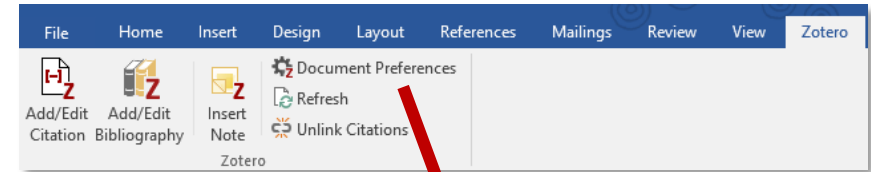
Task: Create a document with a few sentences of text* or use the template



*Get blindtext e.g. from blindtextgenerator.org or generative LLMs

Document preferences

- Citation style is defined in the document preferences
- Styles can be changed according to your needs at any time



of various design elements. This objective assessment allows for the identification of potential areas of visual congestion and facilitates the optimization of spacing and text weight for optimal visual appeal.

This blind text was created with Gemini 1.0, using the prompt "Write a two paragraph text about blind texts in a neutral, scientific tone" ¹.

References

1. Abel, V. & Bebel, W. Title of a Lorem Ipsum example reference. *J Blind Text Appr* **1**, (2035).

Nature

of various design elements. This objective assessment allows for the identification of potential areas of visual congestion and facilitates the optimization of spacing and text weight for optimal visual appeal.

This blind text was created with Gemini 1.0, using the prompt "Write a two paragraph text about blind texts in a neutral, scientific tone" (Abel and Bebel, 2035).

VS.

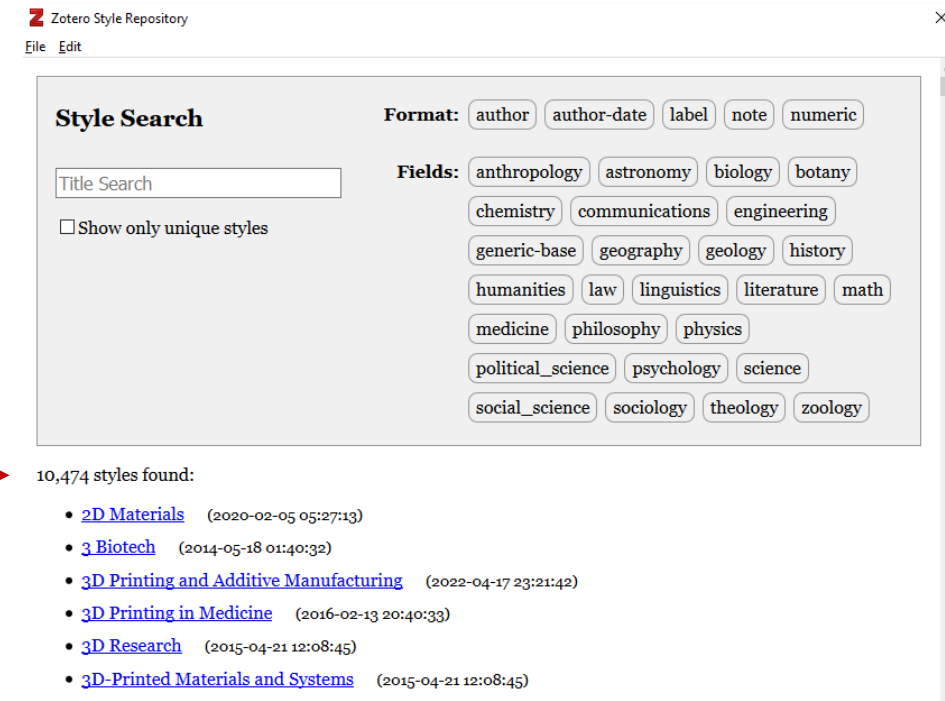
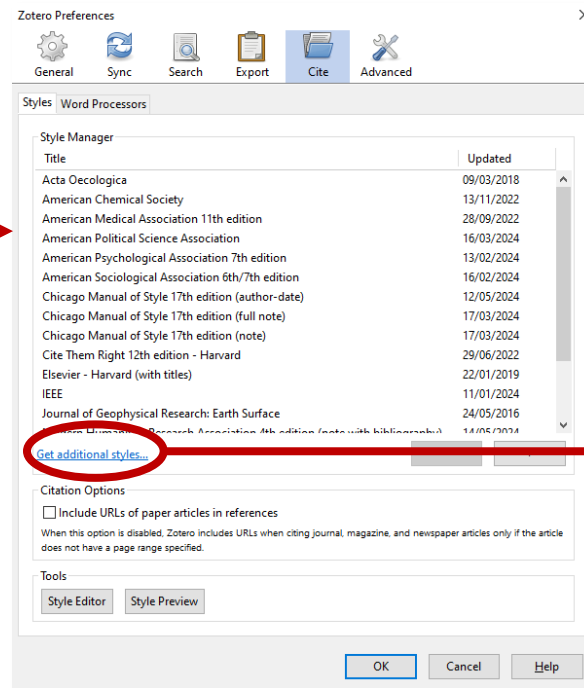
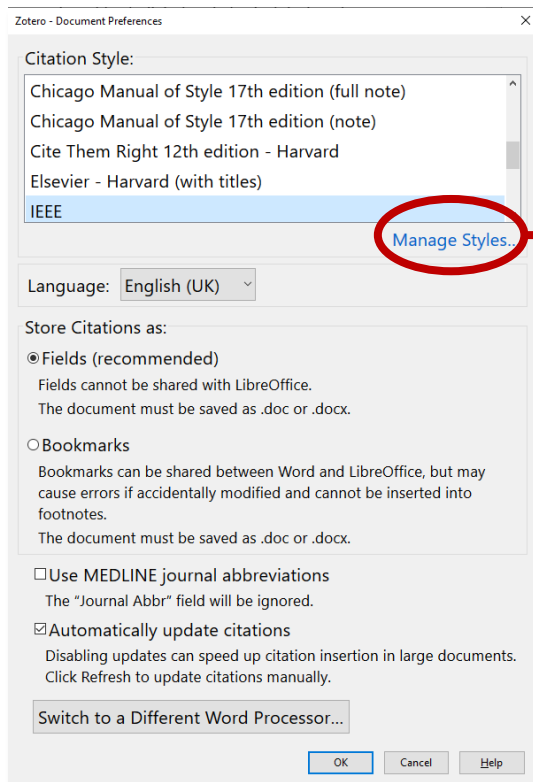
References

Abel, V., Bebel, W., 2035. Title of a Lorem Ipsum example reference. *J Blind Text Appr* **1**.
<https://doi.org/10.1093/XXXX>

Elsevier - Harvard

Document preferences

- Add more styles to your list and get even more styles online



Document preferences

- Older styles may be outdated
- **Always cross-check whether a style fits journal demands!**
- If necessary, adapt an existing style in the style editor

The first screenshot shows the 'Zotero - Document Preferences' dialog. Under 'Citation Style:', 'IEEE' is selected. A red circle highlights the 'Manage Styles...' button. A red arrow points from this button to the second screenshot.

The second screenshot shows the 'Zotero Preferences' dialog, 'Styles' tab. A table lists various citation styles with their update dates. A red circle highlights the 'Updated' column.

Title	Updated
Acta Oecologica	09/03/2018
American Chemical Society	13/11/2022
American Medical Association 11th edition	28/09/2022
American Political Science Association	16/03/2024
American Psychological Association 7th edition	13/02/2024
American Sociological Association 6th/7th edition	16/02/2024
Chicago Manual of Style 17th edition (author-date)	12/05/2024
Chicago Manual of Style 17th edition (full note)	17/03/2024
Chicago Manual of Style 17th edition (note)	17/03/2024
Cite Them Right 12th edition - Harvard	29/06/2022
Elsevier - Harvard (with titles)	22/01/2019
IEEE	11/01/2024
Journal of Geophysical Research: Earth Surface	24/05/2016
Madon University Research Association 4th edition (note with bibliography)	1/05/2024

A red circle highlights the 'Style Editor' button at the bottom. A red arrow points from this button to the third screenshot.

The third screenshot shows the 'Zotero Style Editor' window. It displays XML code for a citation style. Below the code, it shows examples of 'Individual Citations' and 'Bibliography' output.

Individual Citations

(Abel and Bebel, 2035)

Single Citation (with position "first")

(Abel and Bebel, 2035)

Bibliography

Abel, V., Bebel, W., 2035. Title of a Lorem Ipsum example reference. J Blind Text Appr 1. <https://doi.org/10.1093/XXXX>

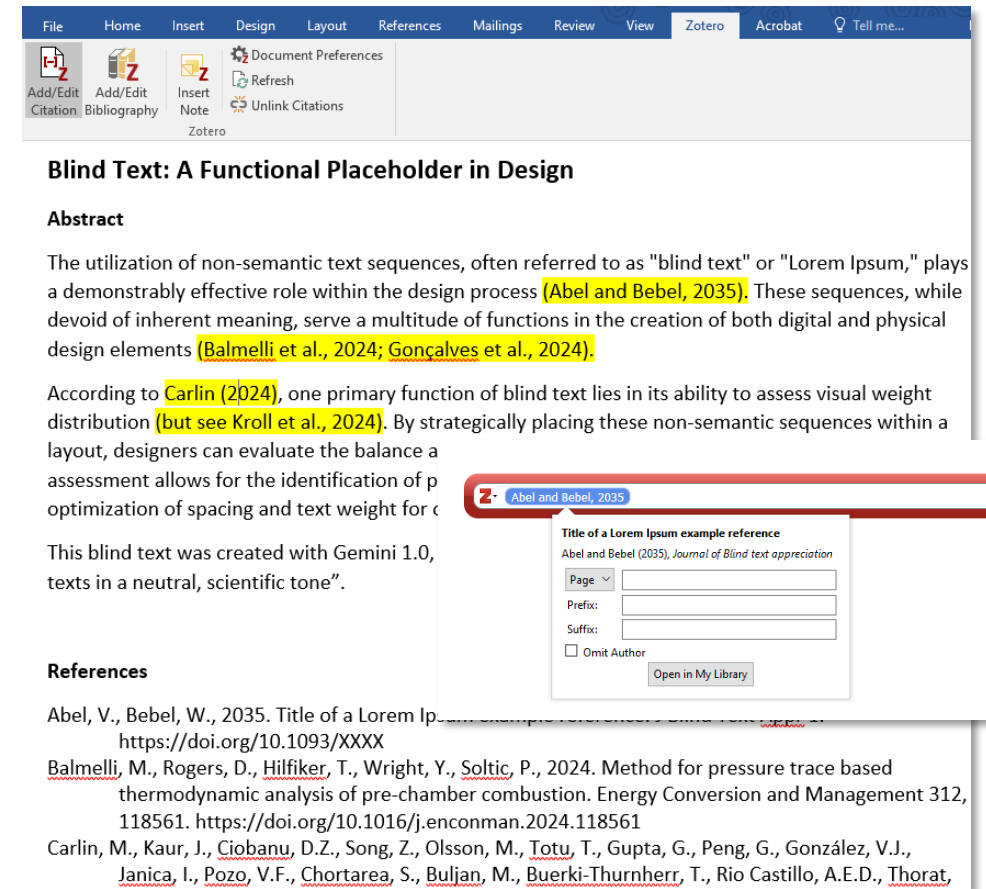
Hands-on: Adding references

Task: Add and edit references

- Add some random citations in your document
- Add the bibliography at the end of your document
- Edit some citations by placing your cursor into the citation and click Add/Edit Citation:
 1. Add another reference into a citation
 2. Add the prefix “but see”
 3. Change a citation from parenthetical to narrative:

(Author, Year) -> *Author (Year)*

 - Click the reference in the format window
 - Check «omit author» and write their name by hand
- Try three different citation styles in document preferences



Blind Text: A Functional Placeholder in Design

Abstract

The utilization of non-semantic text sequences, often referred to as "blind text" or "Lorem Ipsum," plays a demonstrably effective role within the design process (Abel and Bebel, 2035). These sequences, while devoid of inherent meaning, serve a multitude of functions in the creation of both digital and physical design elements (Balmelli et al., 2024; Gonçalves et al., 2024).

According to Carlin (2024), one primary function of blind text lies in its ability to assess visual weight distribution (but see Kroll et al., 2024). By strategically placing these non-semantic sequences within a layout, designers can evaluate the balance a assessment allows for the identification of p optimization of spacing and text weight for c

This blind text was created with Gemini 1.0, texts in a neutral, scientific tone”.

References

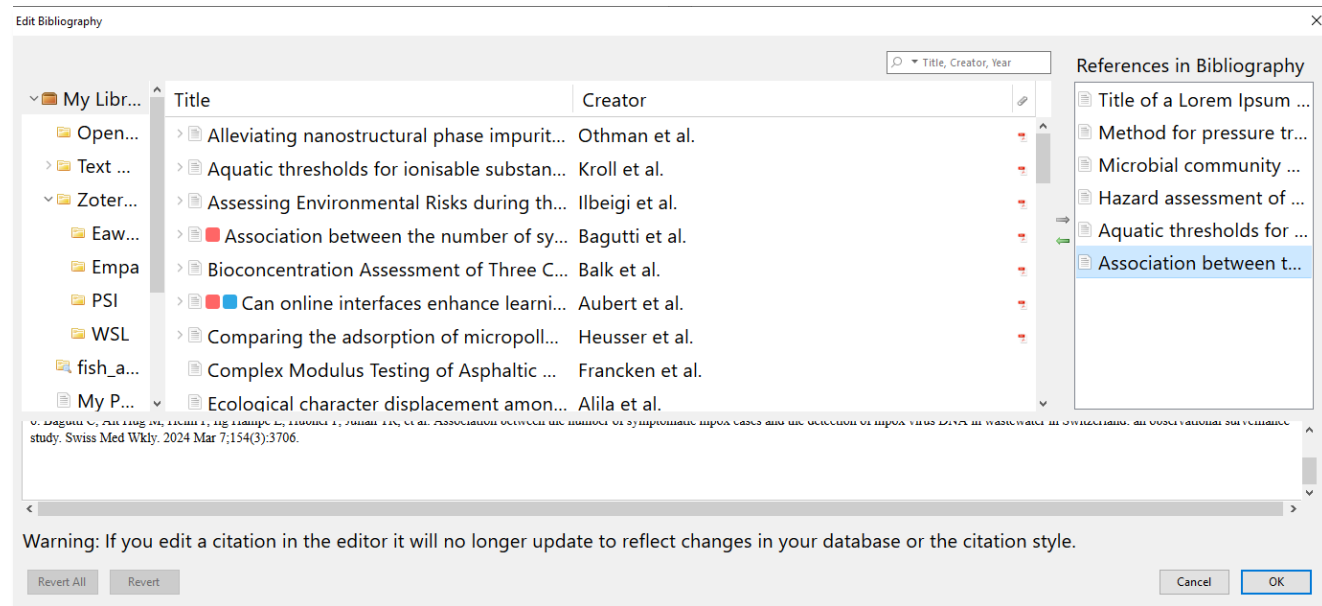
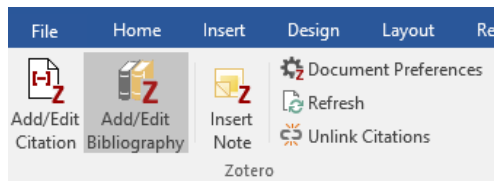
Abel, V., Bebel, W., 2035. Title of a Lorem Ip...
<https://doi.org/10.1093/XXXX>

Balmelli, M., Rogers, D., Hilfiker, T., Wright, Y., Soltic, P., 2024. Method for pressure trace based thermodynamic analysis of pre-chamber combustion. Energy Conversion and Management 312, 118561. <https://doi.org/10.1016/j.enconman.2024.118561>

Carlin, M., Kaur, J., Ciobanu, D.Z., Song, Z., Olsson, M., Totu, T., Gupta, G., Peng, G., González, V.J., Janica, I., Pozo, V.F., Chortarea, S., Buljan, M., Buerki-Thurnherr, T., Rio Castillo, A.E.D., Thorat,

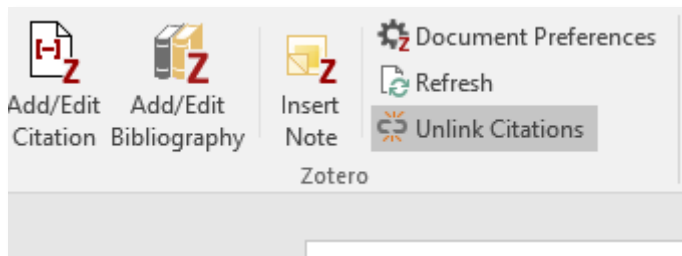
Editing the bibliography

- Generally, the bibliography is automatically updated if new references are added to the text (click refresh if changes are made in the item metadata)
- References can be added to, or removed from, the bibliography manually
- **Carries the risk of incorrect bibliographies!**



Unlinking citations

- Unlink citations if you need to submit a flat file without field code
- **Caution!** Unlinking cannot be reversed* and there is no auto-update anymore!
- Zotero recommends to unlink citations only in a copy of your work file



*Clicked by accident and ignored the warning? Unless the document was closed and re-opened, Ctrl+Z (Win/Linux) or Cmd+Z (Mac) will help.

Beyond Word: Powerpoint

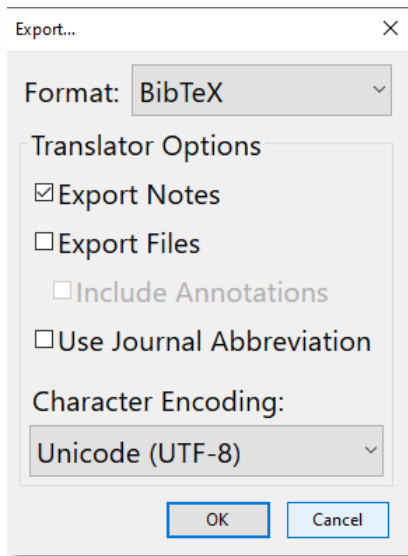
- Plugin for Powerpoint is not available (yet)
- **Workaround:** Create a bibliography from selected items
 - Either select the entries directly or copy them to a sub-collection (e.g. talk@conference_year)
- Paste from clipboard into your presentation
- In-text citation is not possible -> reference list is not automatically updated!

The diagram illustrates the workflow for creating a bibliography in a presentation using Zotero:

- Selection:** In the Zotero library, a list of items is shown. A context menu is open, and the option "Create Bibliography from Items..." is selected.
- Configuration:** The "Create Citation/Bibliography" dialog box is shown. The "Citation Style" is set to "Acta Oecologica", the "Language" is "English (US)", and the "Output Mode" is "Bibliography". The "Copy to Clipboard" option is selected and circled in red.
- Result:** The final result is a presentation slide titled "References" containing a list of citations from the library, such as:
 - Brennwald, M.S. *et al.* (2024) 'Gas equilibrium membrane inlet mass spectrometry (GE-MIMS) for water at high pressure', *Geoscientific Instrumentation, Methods and Data Systems*, 13(1), pp. 1–8. Available at: <https://doi.org/10.5194/gi-13-1-2024>.
 - Byrnes, J.E.K. *et al.* (2024) 'Notes from the past show how local variability can stymie urchins and the rise of the reds in the Gulf of Maine', *Ecosphere*, 15(4), p. e4800. Available at: <https://doi.org/10.1002/ecs2.4800>.
 - Carlin, M. *et al.* (2024) 'Hazard assessment of hexagonal boron nitride and hexagonal boron nitride reinforced thermoplastic polyurethane composites using human skin and lung cells', *Journal of Hazardous Materials*, 473, p. 134686. Available at: <https://doi.org/10.1016/j.jhazmat.2024.134686>.
 - Chaudhary, P. *et al.* (2024) 'Flood Water Depth Prediction with Convolutional Temporal Attention Networks', *Water*, 16(9), p. 1286. Available at: <https://doi.org/10.3390/w16091286>.
 - Daugaard, U. *et al.* (2024) 'The dependence of forecasts on sampling frequency as a guide to optimizing monitoring in community ecology', *Ecosphere*, 15(2), p. e4786. Available at: <https://doi.org/10.1002/ecs2.4786>.

Beyond Word: LaTeX

- Export your library, collection or selected references as *.bib and add it you to TeX workspace
- Make sure the file name has no whitespaces!



```
@article{brennwald_gas_2024,
  title = {Gas equilibrium membrane inlet mass spectrometry ((GE)-(MIMS)) for wa},
  volume = {13},
  copyright = {https://creativecommons.org/licenses/by/4.0/},
  issn = {2193-0864},
  url = {https://qi.copernicus.org/articles/13/1/2024/},
  doi = {10.5194/qi-13-1-2024},
  abstract = {Abstract. Gas species are widely used as natural or artificial trac},
  language = {en},
  number = {1},
  urldate = {2024-05-27},
  journal = {Geoscientific Instrumentation, Methods and Data Systems},
  author = {Brennwald, Matthias S. and Rinaldi, Antonio P. and Gisiger, Jocelyn a},
  month = {jan},
  year = {2024},
  pages = {1--8},
  file = {Full Text:C:\Users\radnyjan\Zotero\storage\HG5R5H5W\Brennwald et
}

@article{byrnes_notes_2024,
  title = {Notes from the past show how local variability can stymie urchins and},
  volume = {15},
  issn = {2150-8925, 2150-8925},
  url = {https://esajournals.onlinelibrary.wiley.com/doi/10.1002/ecs2.4800},
  doi = {10.1002/ecs2.4800},
  abstract = {Abstract
  | The impacts of global change—from shifts in climate to overfishing to 1},
  language = {en},
  number = {4},
  urldate = {2024-05-27},
  journal = {Ecosphere},
  author = {Byrnes, Jarrett E. K. and Brown, Andrea and Sheridan, Kate and Peller},
  month = {apr},
  year = {2024},
  pages = {e4800},
  file = {Full Text:C:\Users\radnyjan\Zotero\storage\VA9H5SGBI\Byrnes et al
}
```



How to add citations and a bibliography in LaTeX documents

You can simply use a .bib file containing your BibTeX entries, created with Zotero. To use it in Overleaf, upload the .bib file to your project.

Use `\citep{}` for parenthetical citations: (Abel and Bebel, 2035), or `\citet{}` for narrative in-text citations: Abel and Bebel (2035). To use these, the package `natbib` is required.

Remember to specify a bibliography style, as well as the filename of the .bib.

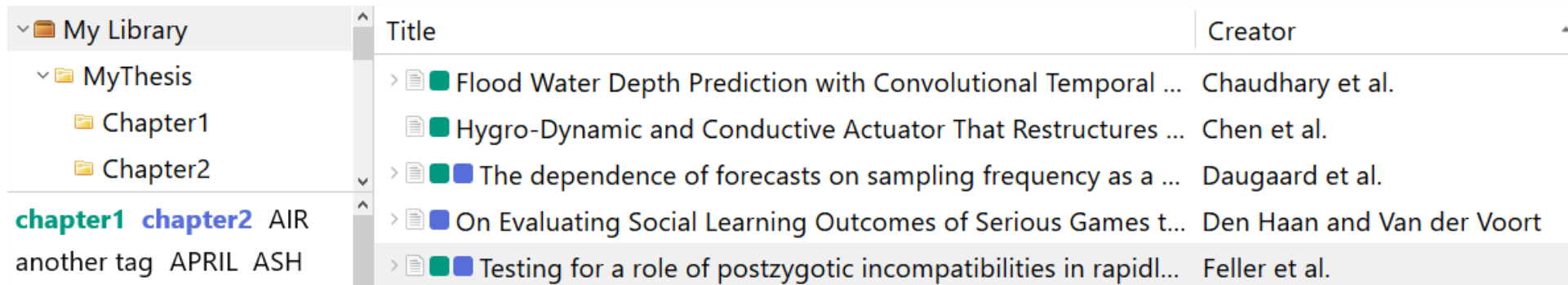
References

Abel, V. and Bebel, W. (2035). Title of a Lorem Ipsum example reference. *Journal of Blind text appreciation*, 1.

Text snippet based on [Overleaf's](#) "Example Project"

Beyond a paper: When multiple bibliographies are needed

- Zotero cannot handle two bibliographies in one document
- **Solution I:** Write each chapter into a separate file
- **Solution II:** Add citations like normal, but paste the bibliography from the clipboard
 - Keep in mind the bibliography will not be auto-updated then!
 - Make sure to include all citation you used:
 - Add them into (sub-)collections *or*
 - Use according tags



Step 5: Sync and collaborate

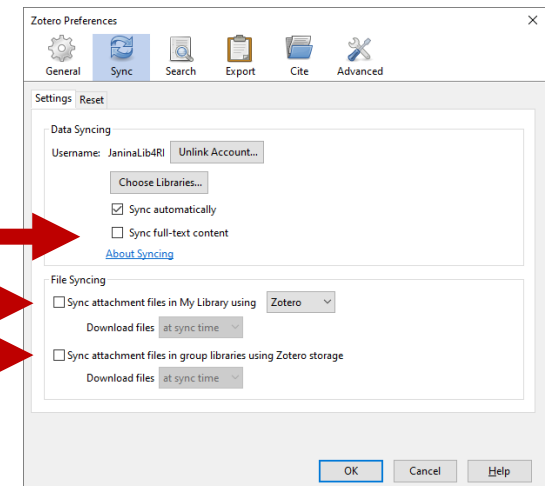
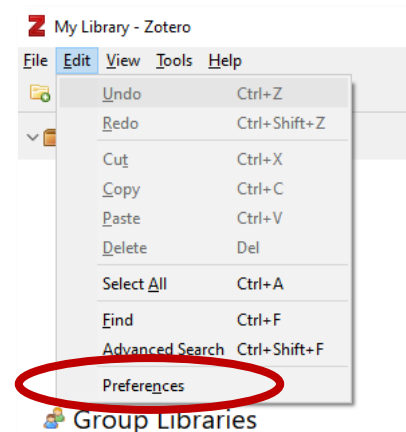
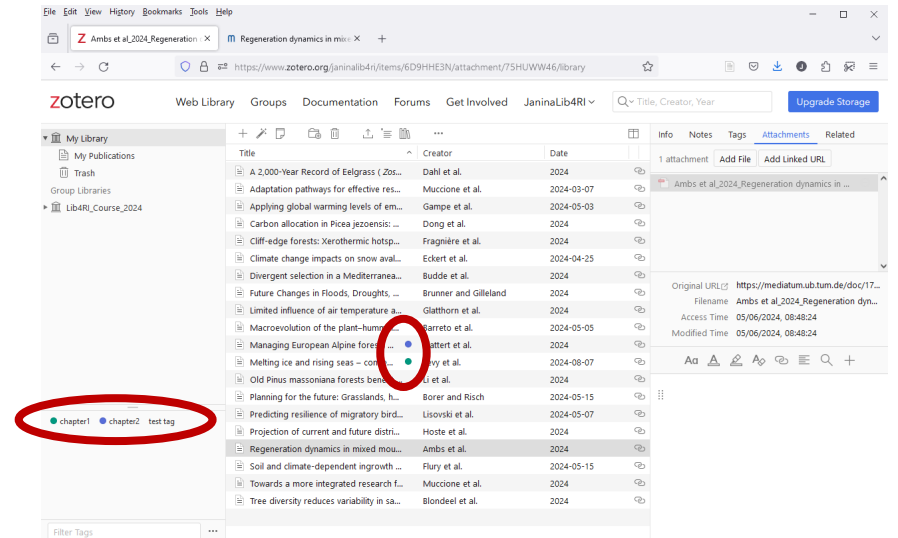
The web library

- Online mirror of your local library
- By default on Zotero server
- **Caution!** File sync on the Zotero server is restricted to max. 300 MB with a free account
 - **Disable** full-text sync and file sync

Alternatives:

- Upgrade your Zotero storage (20-120\$/yr)
- Choose your own cloud over Zotero server to sync your personal library
 - Not recommended by Zotero, risk of corrupted databases
 - Read more at zotero.org/support/sync

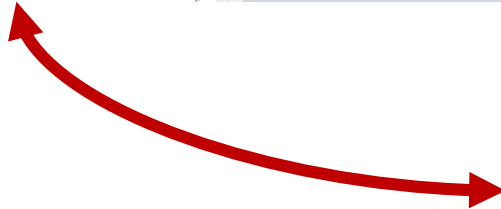
Tags and item notes are synced



Notes and tags in the web library

The screenshot shows the Zotero desktop application. On the left, a PDF reader displays a document titled "Divergent selection in a Mediterranean pine on local spatial scales - Budde et al. - 2024 - Zotero". The text in the PDF is highlighted in yellow. On the right, an "Item Notes" window is open for the same item. It shows a list of annotations, with the most recent one circled in red: "Add Item Note from Annotations". Below the annotations, it states "this note was created in the local library". At the bottom of the notes window, there are tags: "chapter1", "chapter2", and "test tag".

PDF reader in the local installation

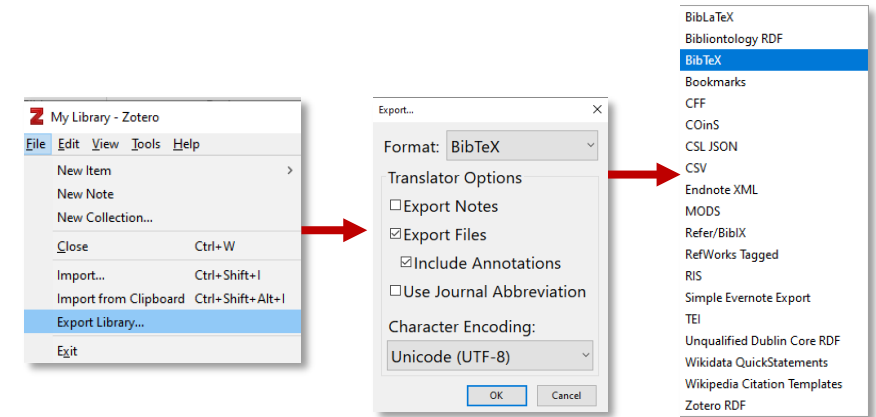


Web library in Firefox

Working with colleagues

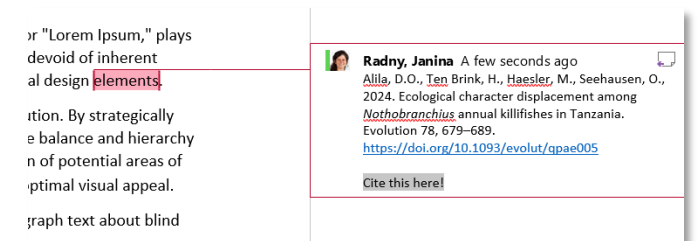
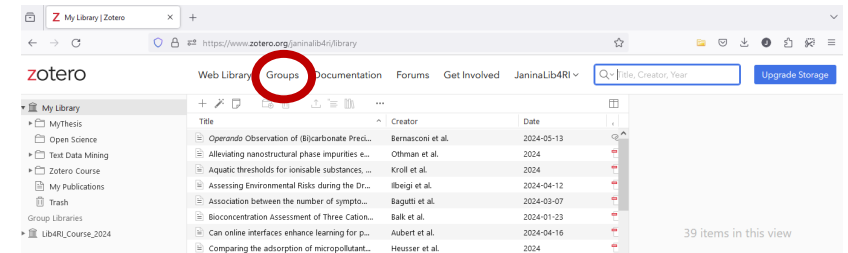
Sharing a library

- Local libraries can be shared as file via *File > Export library*
 - Best test results with *.bib and *.ris
- Create group libraries to work together in one library



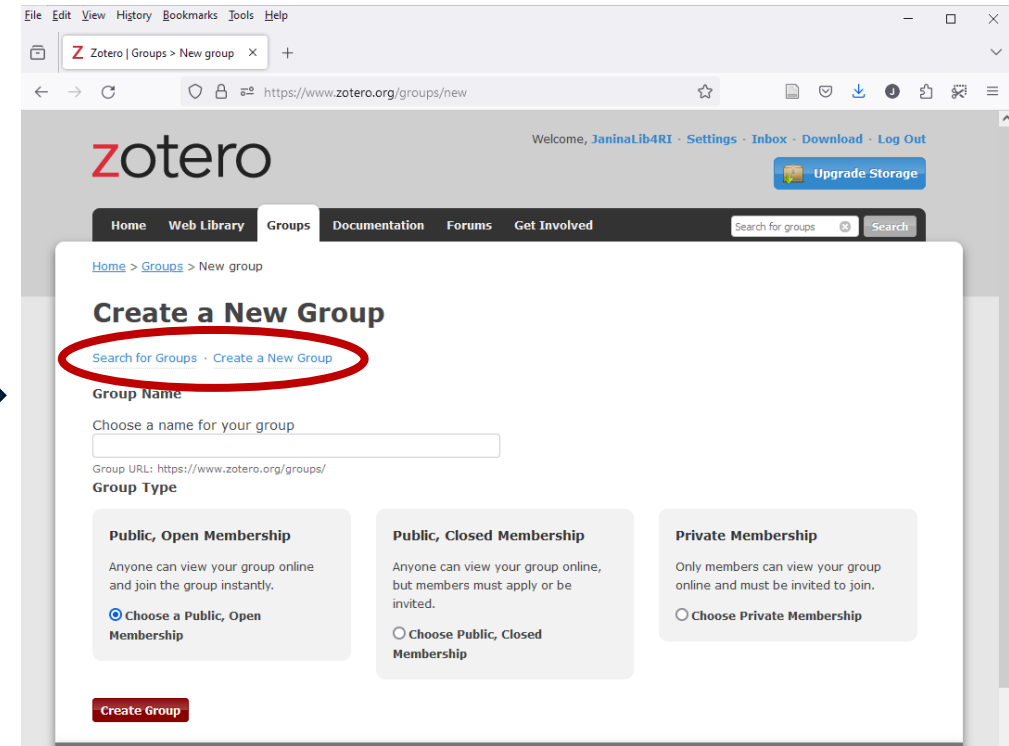
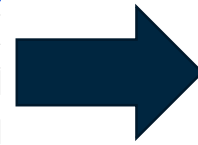
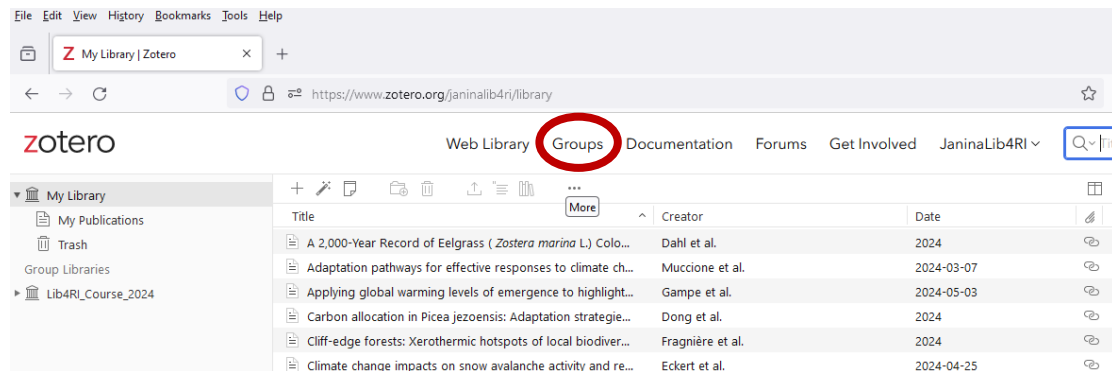
Working together in one file

- Using the same local library is not required
- To add or edit references, Zotero must be used
- Using different literature managers can cause problems!
 - Check with your co-authors, which software to use
 - Work-around: Insert plain text citations as comment



Group libraries

- Web library is only for your personal use
- Group libraries can be shared with others
- Public groups are visible for everybody



Hands-on: Group libraries

- Create a group library `lib4ri_course0624_yourname`
 - Privacy setting: Public, Closed membership
 - Drop one or more items to the group and sync
 - Only groups with items are visible!
- Find & join those groups with the same colour as yours
- Approve the requests for your group
 - **Requests come via mail**
- Drop one item into each group, where you are a member
 - Import the items from the group library into your local library
- **Bonus:** Check if there are public groups on your topic of interest!

Group 1



Group 2



Group 3



Group 4



Questions left?

Reach us via e-mail to info@lib4ri.ch