

Autumn 2026

Literature management with Zotero

Janina Radny

Lib4RI Training series: Essential Skills for Today's Researchers

- Module 1: Searching Scientific Information
- Module 2: Scientific Publishing – From Writing to Sharing
- Module 3: Research Data Management – The Basics
- Module 4: AI in Research & Scientific Writing
- Module 5: LaTeX – Getting Started
- **Module 6: Literature Management with Zotero**
- Module 7: Git Into version control: an Introduction to Git for Scientists





Essential Skills for Today's Researchers

Training series
Programme 2026

Modules

- 1 Searching Scientific Information
- 2 Scientific Publishing – From Writing to Sharing
- 3 Research Data Management – The Basics
- 4 AI in Research & Scientific Writing
- 5 LaTeX – Getting Started
- 6 Literature Management with Zotero
- 7 Git Into Version Control: an Introduction to Git for Scientists

Course sites

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

Online registration

www.lib4ri.ch/training-series

Lib4RI – Library for the Research Institutes within the
ETH Domain: Eawag, Empa, PSI & WSL

Your feedback is appreciated!

- Help us improve our training by filling in the feedback form in LEAD campus!
- The course slides and supplementary material are available online on our website at:

<https://www.lib4ri.ch/training-series#Literature-Management-with-Zotero>



Course Evaluation
 Lib4RI Training Series: Searching & Managing Scientific Information
 Module 4b: Literature Management with Zotero
 Organisation: ☐ Eawag ☐ Empa ☐ PSI ☐ WSL
 Session date:

Please rate the following statements...

	strongly agree	agree	neutral	disagree	strongly disagree
1 Content	5	4	3	2	1
a) Overall, the course fully met my expectations	☐	☐	☐	☐	☐
b) The knowledge provided is useful for my work	☐	☐	☐	☐	☐
c) The level of difficulty and the comprehensibility of the presentation was appropriate	☐	☐	☐	☐	☐
d) There was a good balance between the course length and subject matter	☐	☐	☐	☐	☐
e) Examples shown during the live session were appropriate	☐	☐	☐	☐	☐

2 Which topics could be shortened or excluded?

3 Which topics were missing or should have been presented in more detail?

Please rate the following statements...

	strongly agree	agree	neutral	disagree	strongly disagree
4 Presentation and Organisation	5	4	3	2	1
a) The course was well structured and had a clear theme	☐	☐	☐	☐	☐
b) The group size was appropriate	☐	☐	☐	☐	☐
c) The documents distributed are useful	☐	☐	☐	☐	☐
d) The duration of the course and use of time were appropriate	☐	☐	☐	☐	☐
e) The course announcement and the information given were clear and correct	☐	☐	☐	☐	☐

5 What did you like most?

6 What could be improved?

Terms of quality?

	Content					Presentation				
	very good	good	neutral	poor	very poor	very good	good	neutral	poor	very poor
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

future courses:

☐ E-Mail announcement

☐ Other:

if) with no distribution at the course

Outline

- Introduction
- Hands-on Zotero I
 - Get literature
 - Organize your library
 - Read, annotate and summarize
- *Break*
- Hands-on Zotero II
 - Cite-while-you-write
 - Web and group libraries

Where are you in your PhD journey?

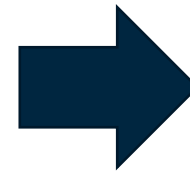
Just starting

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



Zotero



JabRef

Commercial

EndNote™



and many more...

Zotero

- Free and open source
- Well-structured interface and powerful integrated reader (V6 and higher)
- Import with one click
- Cite-while-you-write

Browser connector
(install separately)

Word processor plugin
(included in main installation)

Main installation

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
- Overleaf (premium account or import *.bib)
- Quarto (Rstudio & Positron), *Jupyterlab (not tested)*

Used for this lecture:

- Zotero 10
- Firefox 155
- MS Office 365

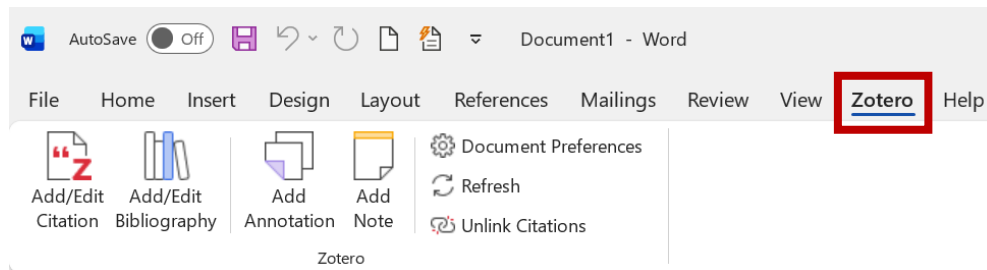
Check your installation

You should see:

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



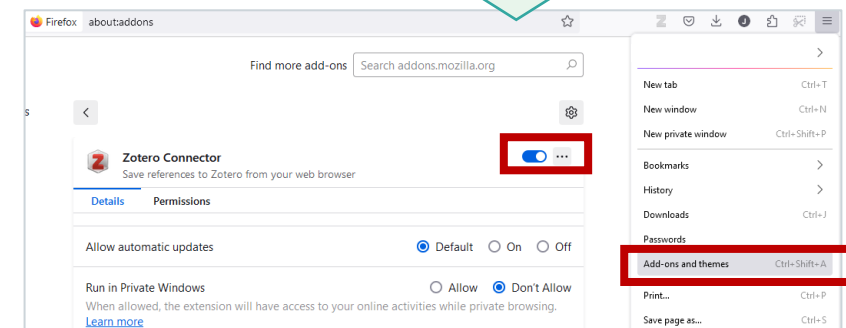
- Zotero tab in you text editor



- Symbol in your browser (varies with item type)



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



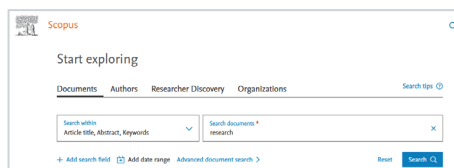
Hands on Zotero!

Five step for literature management

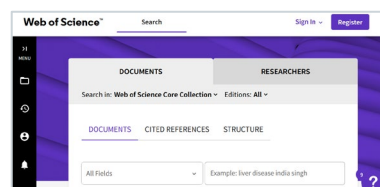
- **Step 1:** Get literature into Zotero
- **Step 2:** Organize your library
- **Step 3:** Read, annotate, summarize
- **Step 4:** Cite-while-you-write
- **Step 5:** Sync and collaborate

Step 1: Get literature

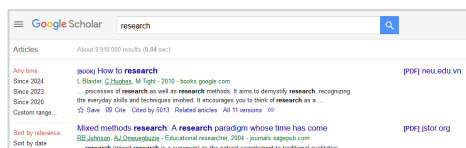
Finding literature



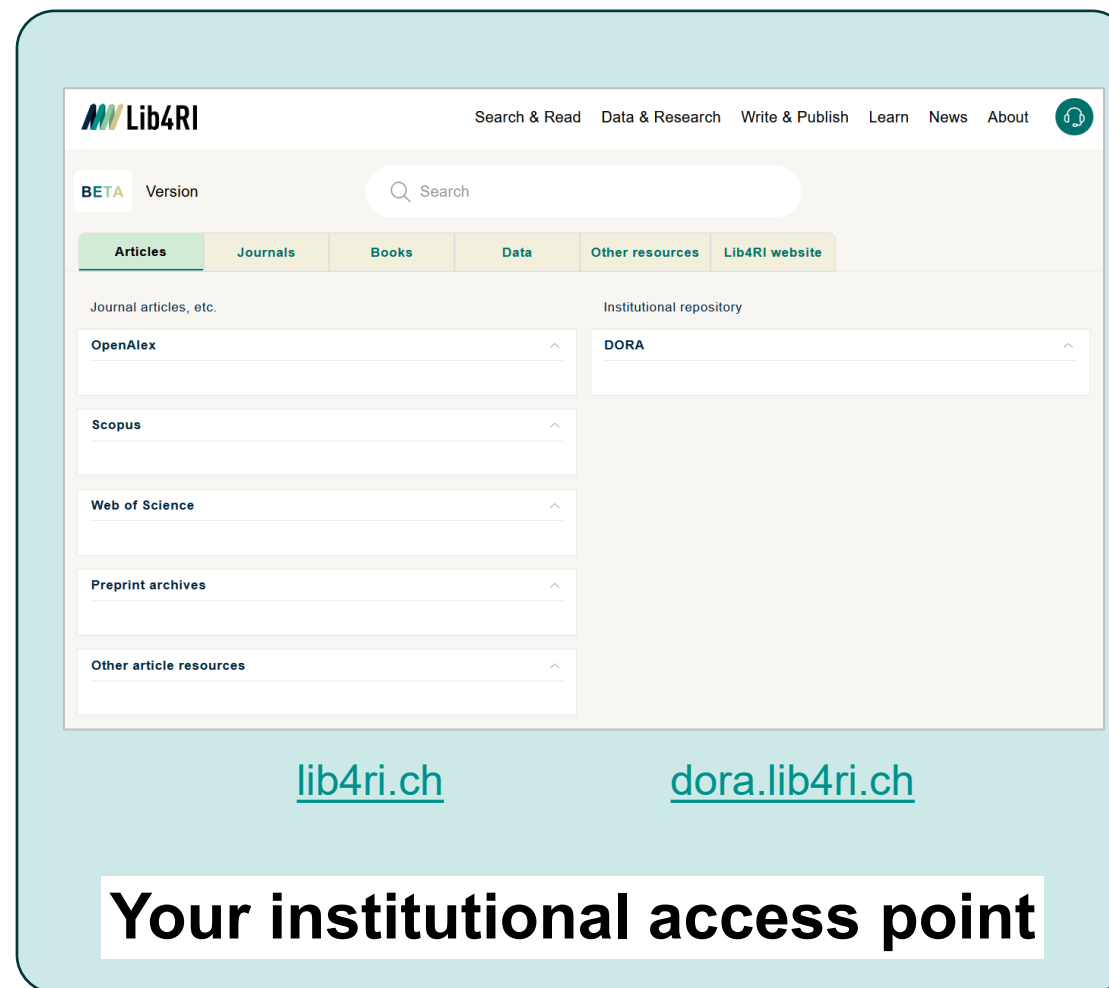
scopus.com



webofscience.com

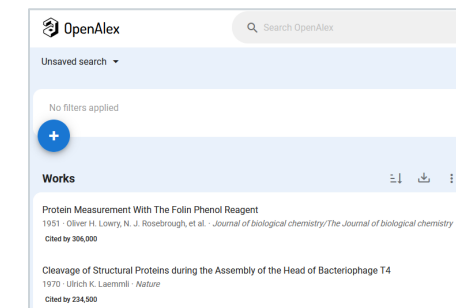


scholar.google.com

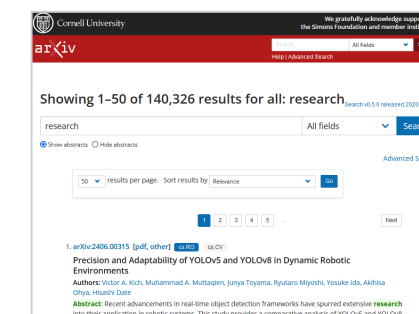


lib4ri.ch

dora.lib4ri.ch

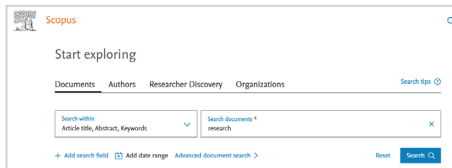


openalex.org

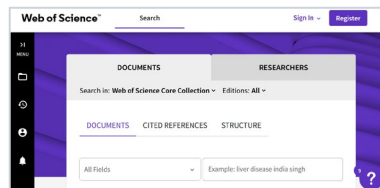


arxiv.org/ (pre-prints)

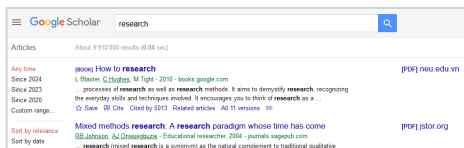
Finding literature



scopus.com



webofscience.com



scholar.google.com

More info? Check out our resources!

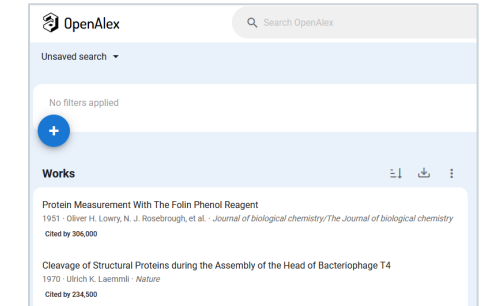
- Training: [Searching Scientific Information](#)
- Info sheet: [Topic Search](#)
- Website: [Systematic literature search](#)

... or ask your friendly librarian!

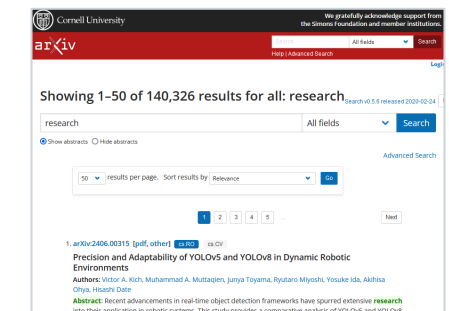


Let's go to the library

Source: Harris County Library via giphy.com

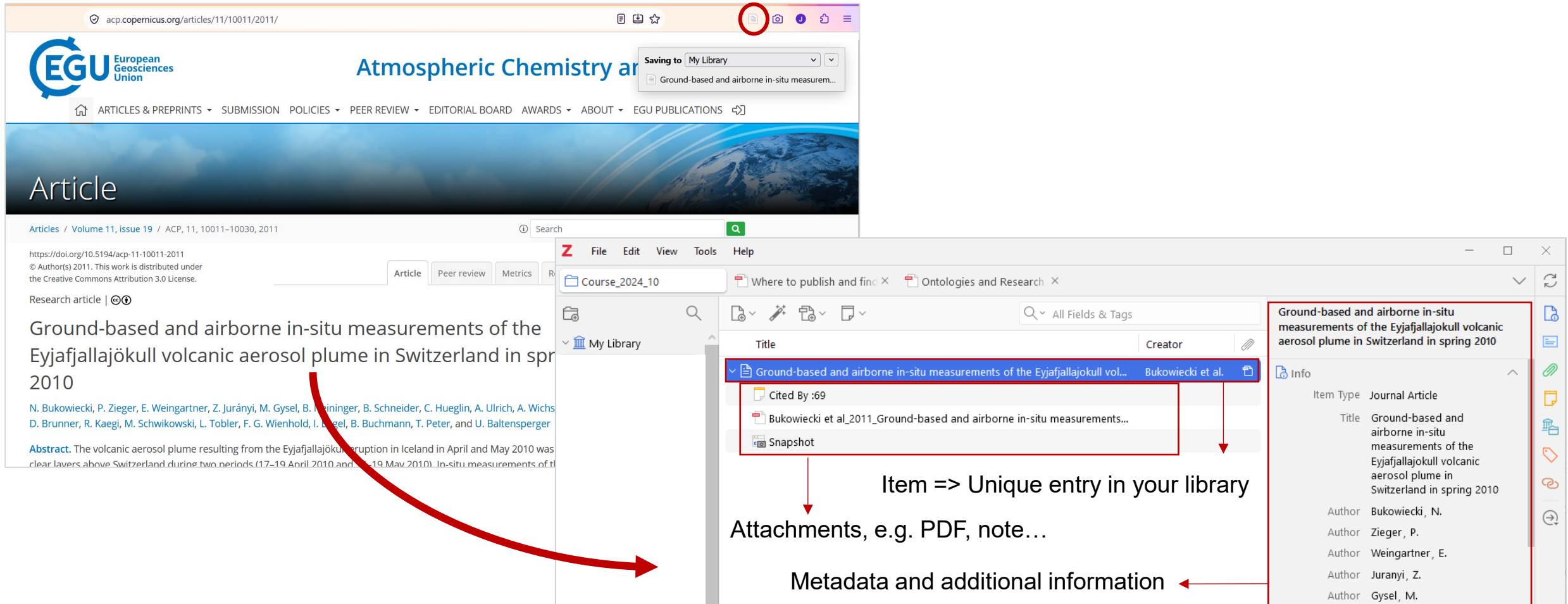


openalex.org



arxiv.org/ (pre-prints)

Import via browser connector



Article

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

N. Bukowiecki, P. Zieger, E. Weingartner, Z. Jurányi, M. Gysel, B. Reininger, B. Schneider, C. Hueglin, A. Ulrich, A. Wichter, D. Brunner, R. Kaegi, M. Schwikowski, L. Tobler, F. G. Wienhold, I. Engel, B. Buchmann, T. Peter, and U. Baltensperger

Abstract. The volcanic aerosol plume resulting from the Eyjafjallajökull eruption in Iceland in April and May 2010 was clearly visible above Switzerland during two periods (17–19 April 2010 and 19–21 May 2010). In-situ measurements of the

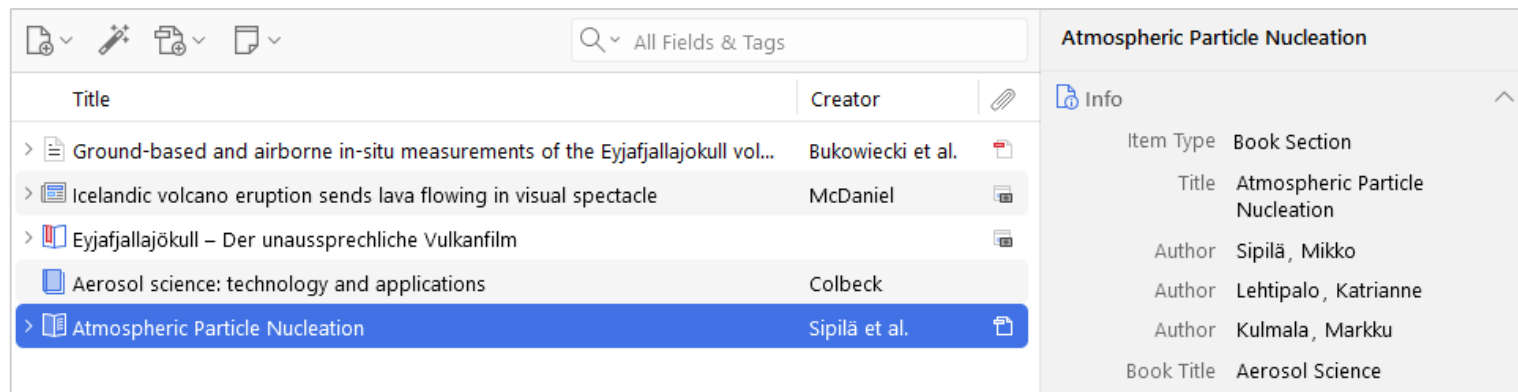
Item => Unique entry in your library

Attachments, e.g. PDF, note...

Metadata and additional information

Item types

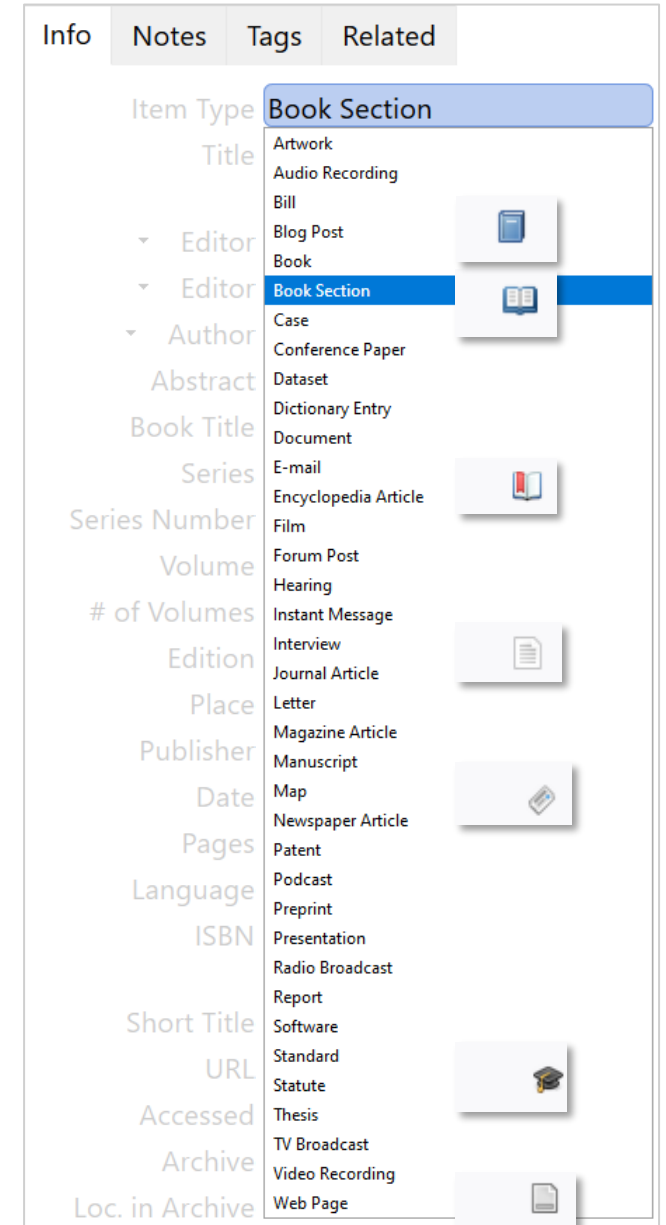
- Zotero supports many different item types
- Depending on the item type, different metadata is included, e.g.
 - Publication (journal name) for journal articles
 - Edition number for books
 - Access date for web resources...
- Check correct type for more uncommon entries or import sources



The screenshot shows the Zotero library interface. On the left, a list of items is displayed with columns for Title, Creator, and a status icon. The item 'Atmospheric Particle Nucleation' by Sipilä et al. is selected. On the right, the details for this item are shown, including the Item Type (Book Section), Title (Atmospheric Particle Nucleation), Author (Sipilä, Mikko), and Book Title (Aerosol Science).

Title	Creator	Status
> Ground-based and airborne in-situ measurements of the Eyjafjallajökull vol...	Bukowiecki et al.	
> Icelandic volcano eruption sends lava flowing in visual spectacle	McDaniel	
> Eyjafjallajökull – Der unaussprechliche Vulkanfilm		
Aerosol science: technology and applications	Colbeck	
> Atmospheric Particle Nucleation	Sipilä et al.	

Field	Value
Item Type	Book Section
Title	Atmospheric Particle Nucleation
Author	Sipilä, Mikko
Author	Lehtipalo, Katrianne
Author	Kulmala, Markku
Book Title	Aerosol Science

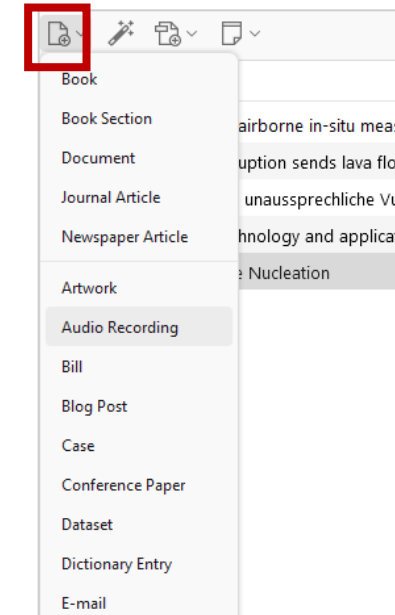
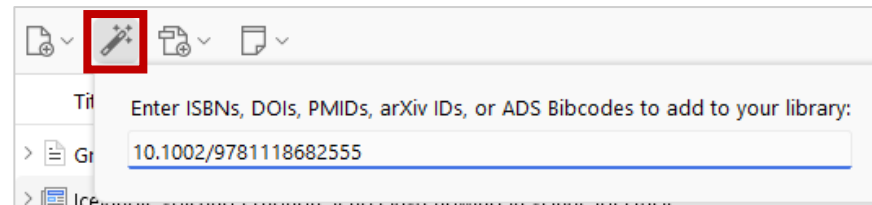
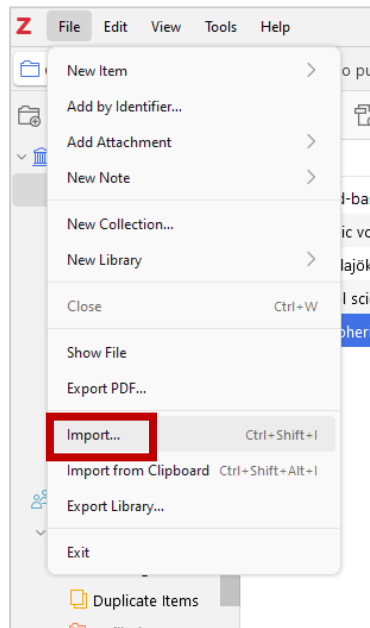


The screenshot shows the 'Item Type' dropdown menu in Zotero. The menu is open, displaying a list of item types. 'Book Section' is highlighted. The menu also shows icons for various item types, such as a book for 'Book', a document for 'Document', and a graduation cap for 'Thesis'.

Item Type	Icon
Artwork	
Audio Recording	
Bill	
Blog Post	
Book	
Book Section	
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	
Web Page	

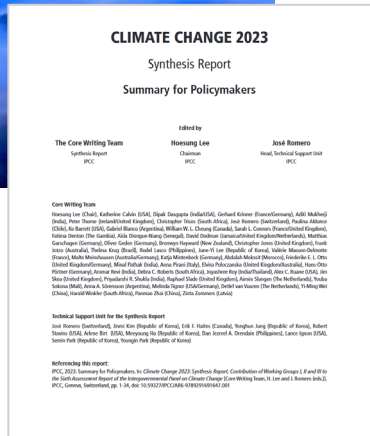
Other import options I

- *File > Import* for collections, e.g. other reference managers (*.bib, *.ris)
- Import wizard for DOI, arXiv IDs etc (useful to import e.g. from [Zenodo](https://zenodo.org/))
- Add by hand



Other import options II

- Drag & Drop PDFs – metadata is searched and added
- Missing information can be added manually



IPCC, 2023: Climate Change 2023: Synthesis Report. Contribution of Working Groups I, II and III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Core Writing Team, H. Lee and J. Romero (eds.)]. IPCC, Geneva, Switzerland.

Info

Item Type Report

Title IPCC, 2023: Climate Change 2023: Synthesis Report. Contribution of Working Groups I, II and III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Core Writing Team, H. Lee and J. Romero (eds.)]. IPCC, Geneva, Switzerland.

Contributor Lee, Hoesung

Author Calvin, Katherine

Author Dasgupta, Dipak

Author Krinner, Gerhard

Author Mukherji, Aditi

119 more...

Report Number

Report Type

Series Title

Place

Institution Intergovernmental Panel on Climate Change (IPCC)

Date 2023-07-25

Pages

Language en

Short Title IPCC, 2023

URL <https://www.ipcc.ch/report/ar6/syr/>

Accessed 31/03/2025, 14:32:06

Archive

Loc. in Archive

Library Catalogue DOI.org (Crossref)

Call Number

Rights

Extra Edition: First
DOI: 10.59327/IPCC/AR6-9789291691647



Biodiversität und ökologischer Ausgleich auf Flugplätzen

Info

Item Type Journal Article

Title Biodiversität und ökologischer Ausgleich auf Flugplätzen

Author (last), (first)

Publication

Volume

Issue

Pages

Date 2019

Series

Series Title

Series Text

Journal Abbr

Language de

DOI

ISSN

Short Title

URL

Accessed

Archive

Loc. in Archive

Library Catalogue Zotero

Hands-On: Add literature

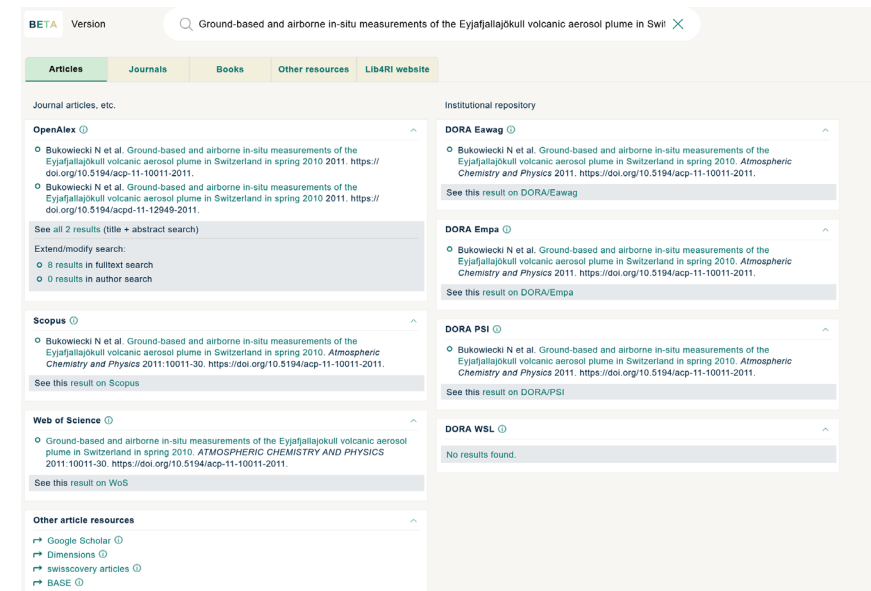
N. Bukowiecki *et al.*, **Ground-based and airborne in-situ measurements of the Eyjafjallajökull volcanic aerosol plume in Switzerland in spring 2010**, *Atmospheric Chemistry and Physics*, vol. 11, no. 19, pp. 10011–10030, Oct. 2011, doi: [10.5194/acp-11-10011-2011](https://doi.org/10.5194/acp-11-10011-2011).

Task: Import to your Zotero library from

- Scopus
- Web of Science
- Google Scholar (directly from Google page, not through the link!)
- Zotero import wizard using the DOI

○ Can you detect any differences?

(Hint: The field “Library catalogue” in the metadata shows where an item came from)

The screenshot shows the Lib4RI search tool interface. The search bar at the top contains the text "Ground-based and airborne in-situ measurements of the Eyjafjallajökull volcanic aerosol plume in Swit". Below the search bar, there are tabs for "Articles", "Journals", "Books", "Other resources", and "Lib4RI website". The "Articles" tab is selected, and the search results are displayed in a list format. The results are organized into sections: "OpenAlex", "Scopus", "Web of Science", and "Other article resources". Each section contains a list of search results, including the title, authors, and a link to the full text. The "OpenAlex" section shows two results, "Scopus" shows one, "Web of Science" shows one, and "Other article resources" shows one. The "DORA Eawag", "DORA Empa", "DORA PSI", and "DORA WSL" sections are also visible, each showing a link to the result on their respective websites.

Hint: Get links directly via the Lib4RI search tool

Metadata can differ between sources*

- Google Scholar **did not retrieve an abstract or DOI**, provides author full names, but not full author list
- Web of Science does **not show special characters**
- DOI import (via Crossref) provides **rights information – relevant for re-use and sharing!**
See lib4ri.ch/copyright-cc-licences for more information

Keep in mind:

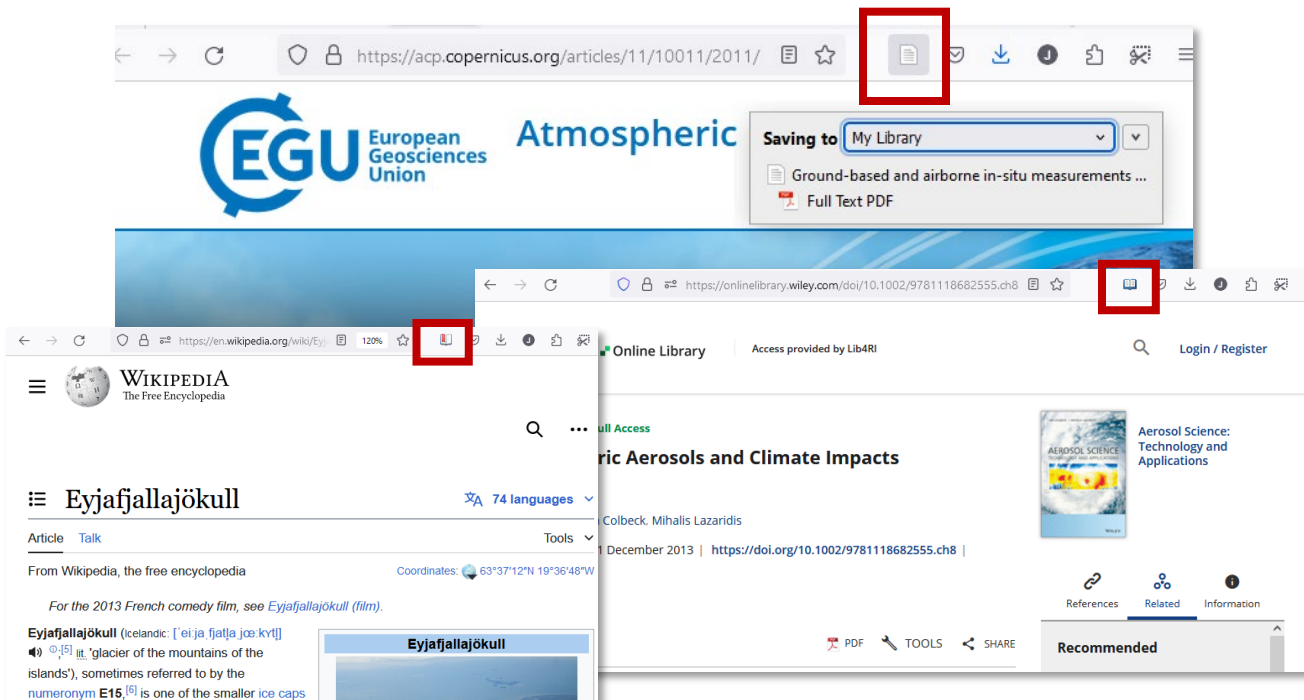
- Metadata can be incomplete
- Errors may happen, especially with third party sources
- Encoding or typesetting can be different (special characters, all caps...)

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

**As tested on 15.09.2026*

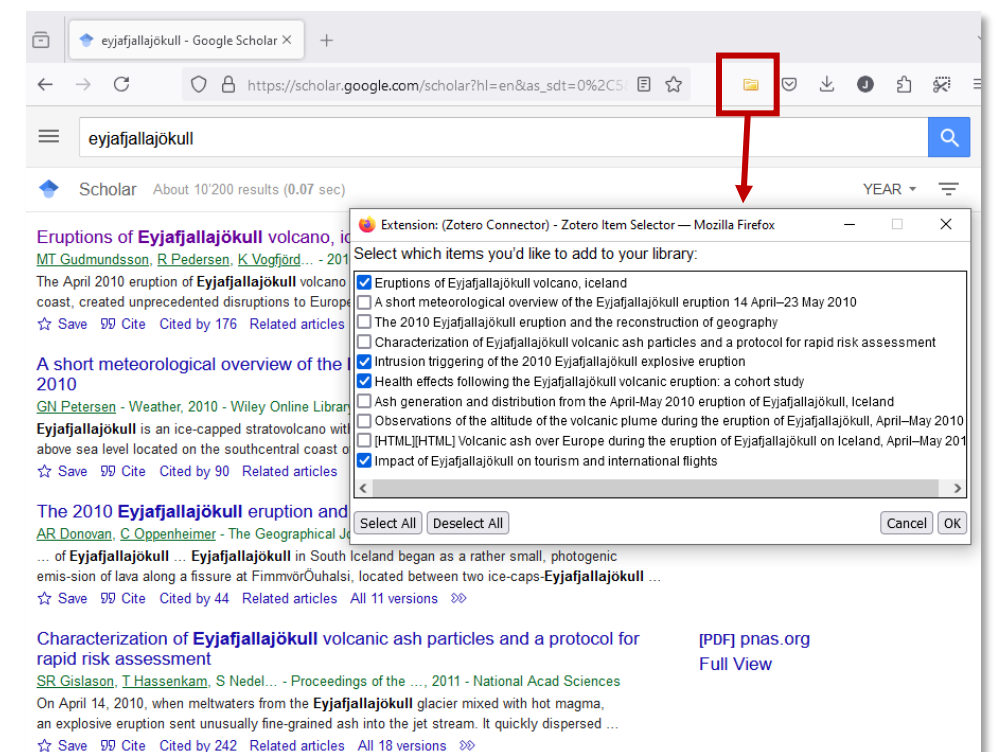
Single import

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



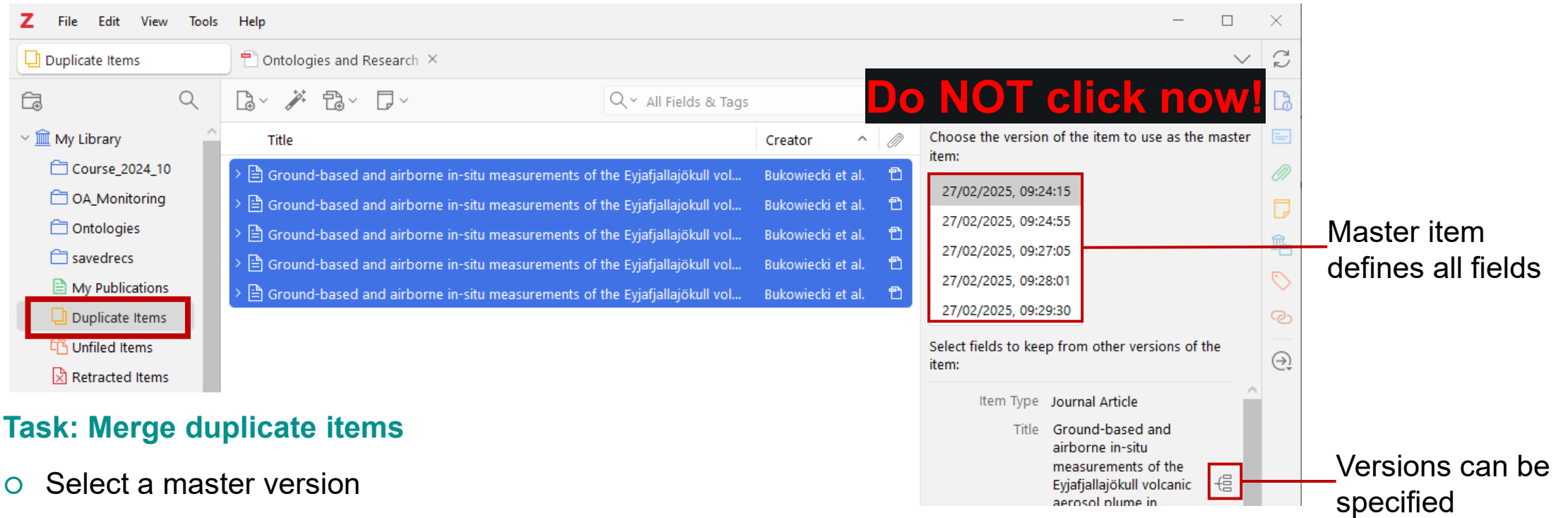
Bulk import

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



Step 2: Organize your library

Hands-On: Tidy-up your library



Do NOT click now!

Choose the version of the item to use as the master item:

- 27/02/2025, 09:24:15
- 27/02/2025, 09:24:55
- 27/02/2025, 09:27:05
- 27/02/2025, 09:28:01
- 27/02/2025, 09:29:30

Master item defines all fields

Select fields to keep from other versions of the item:

Item Type	Journal Article
Title	Ground-based and airborne in-situ measurements of the Eyjafjallajökull volcanic aerosol plume in

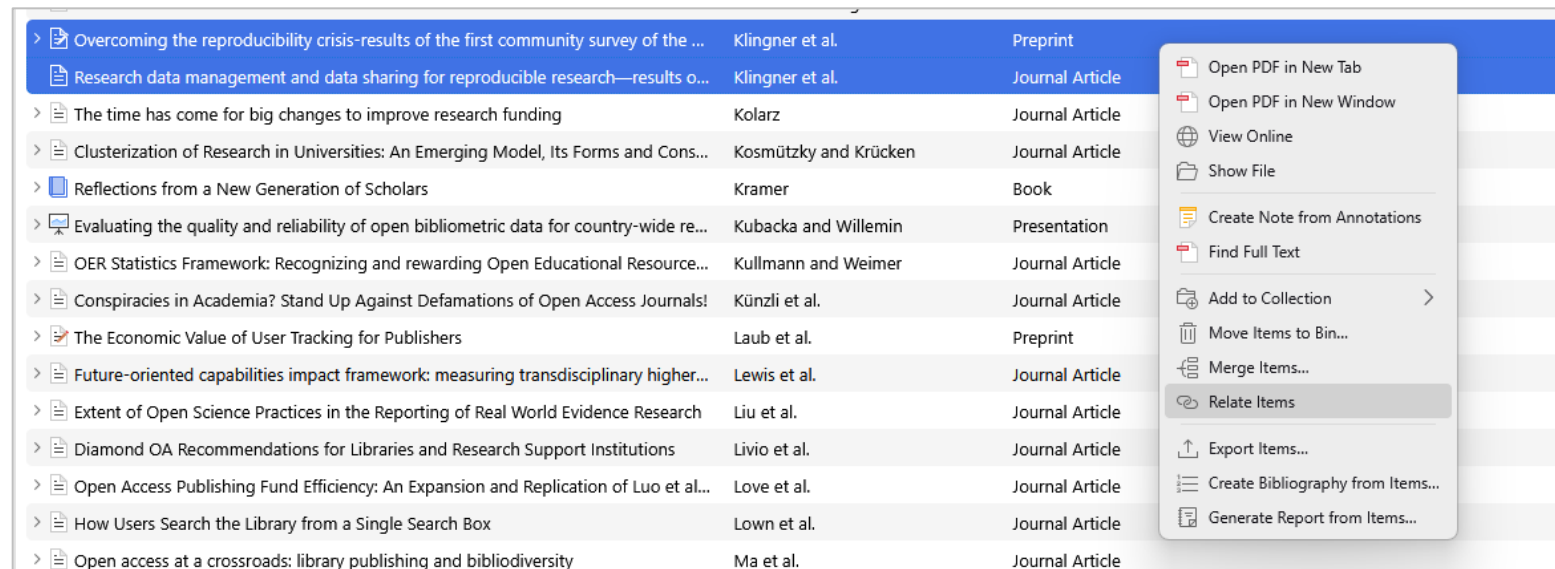
Versions can be specified

Task: Merge duplicate items

- Select a master version
- Specify field versions to include:
 - Full author list
 - Title with umlaut
 - Journal title is **not** all caps
 - Journal abbreviation
 - Licence information
 - DOI

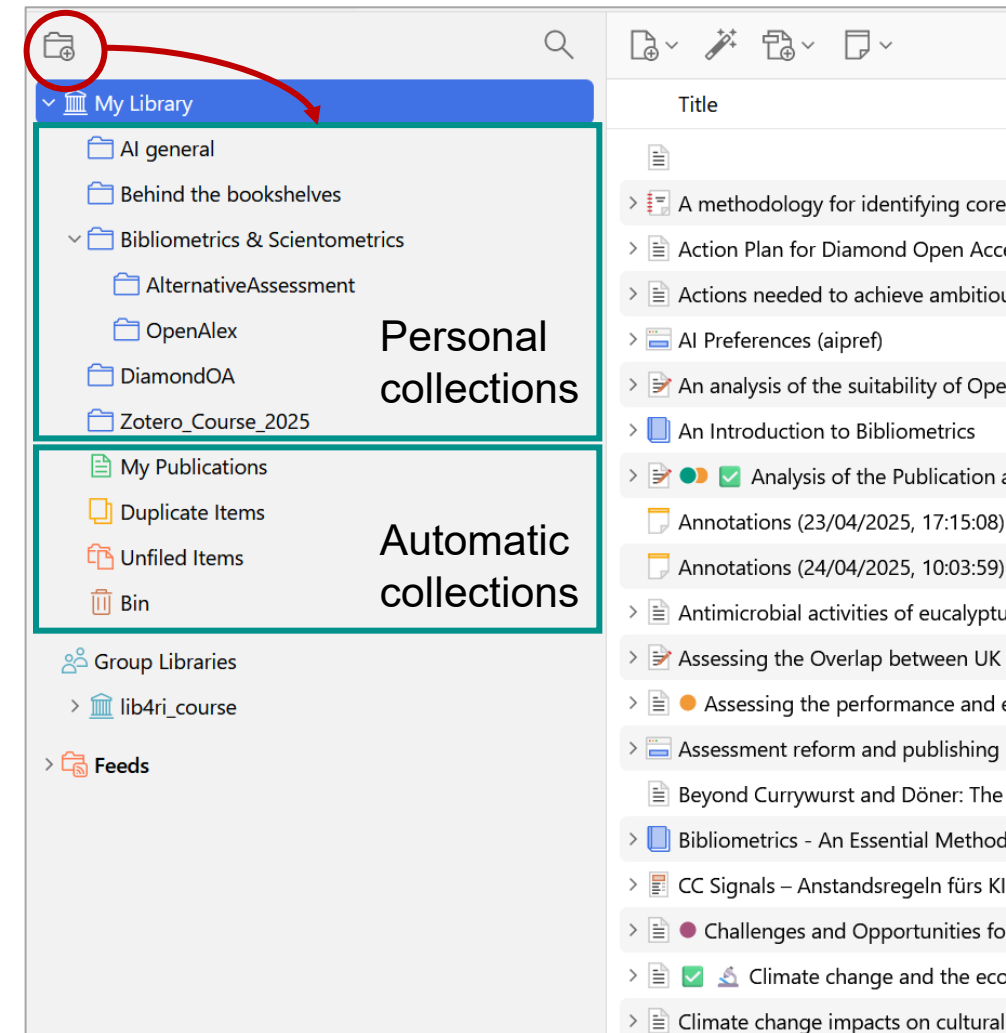
Merging and relating

- Sometimes items are not recognized as duplicates, e.g. wrong item type
- Select items to be merged and right-click to enforce merging (only items of the same type)
- Items can also be related, e.g. publication and dataset or peer-reviewed article and preprint
- Relating topics? Use connectedpapers.com or researchrabbit.ai (works with Zotero)



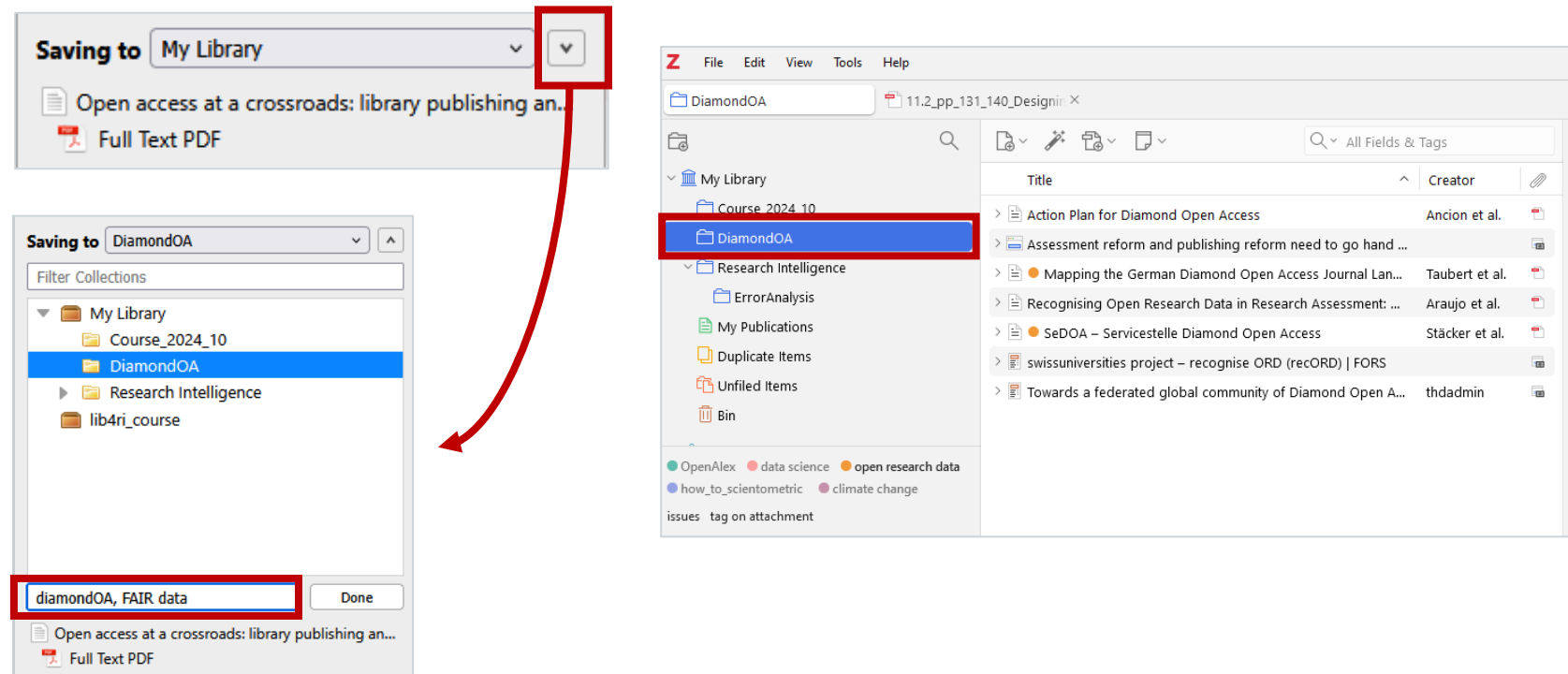
Organizing your library I

- Main and default: My Library
 - Cannot be deleted or renamed
 - Contains all items
- Organize items in personal collections (“playlists”)
 - Items can be in multiple collections
 - Drag & drop items to **copy** into any collection
 - Hold Shift (Win/Linux) or Cmd (Mac) to **move** items from one collection to another
- Automatic collections are created by Zotero
 - Add your own publications to be displayed and shared in your Zotero profile – double check if you have the rights to do so!
 - Unfiled items are not part of any collection



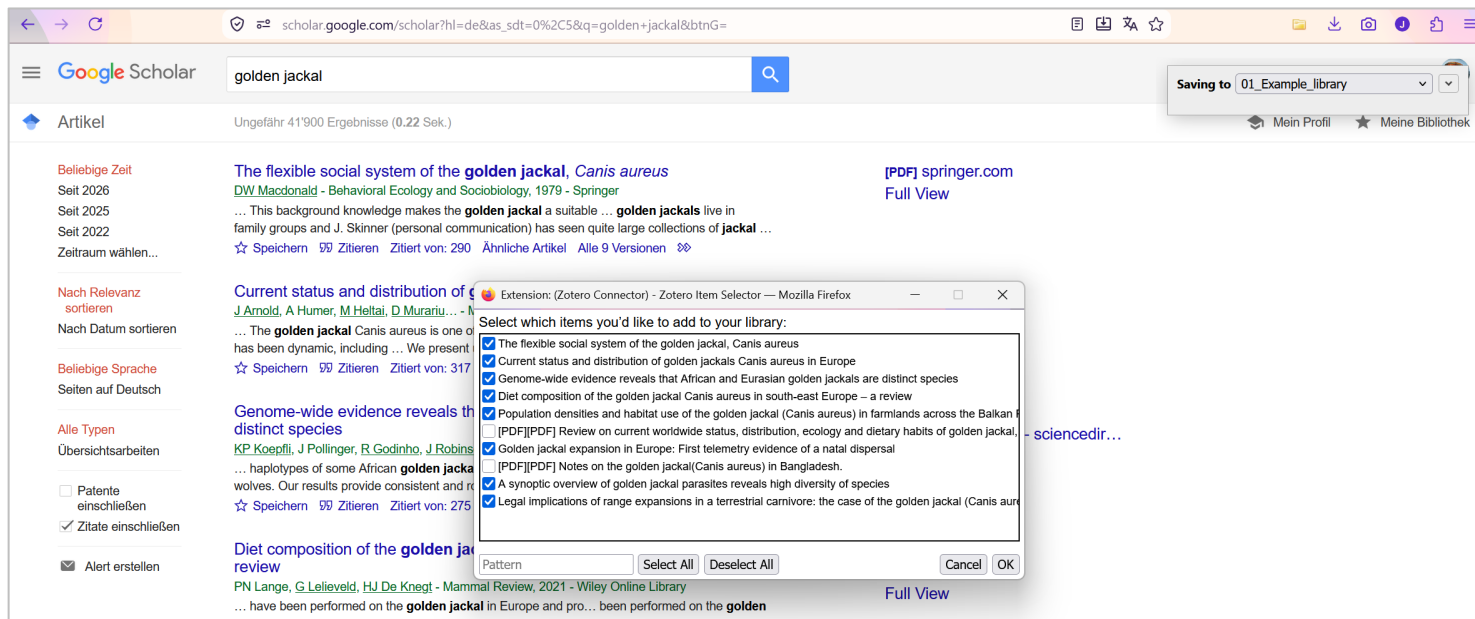
Importing to collections

- Default: My Library
- Manually assign items to collections with the dropdown menu
- Select a specific collection to automatically assign items



Hands-on: Fill your library*

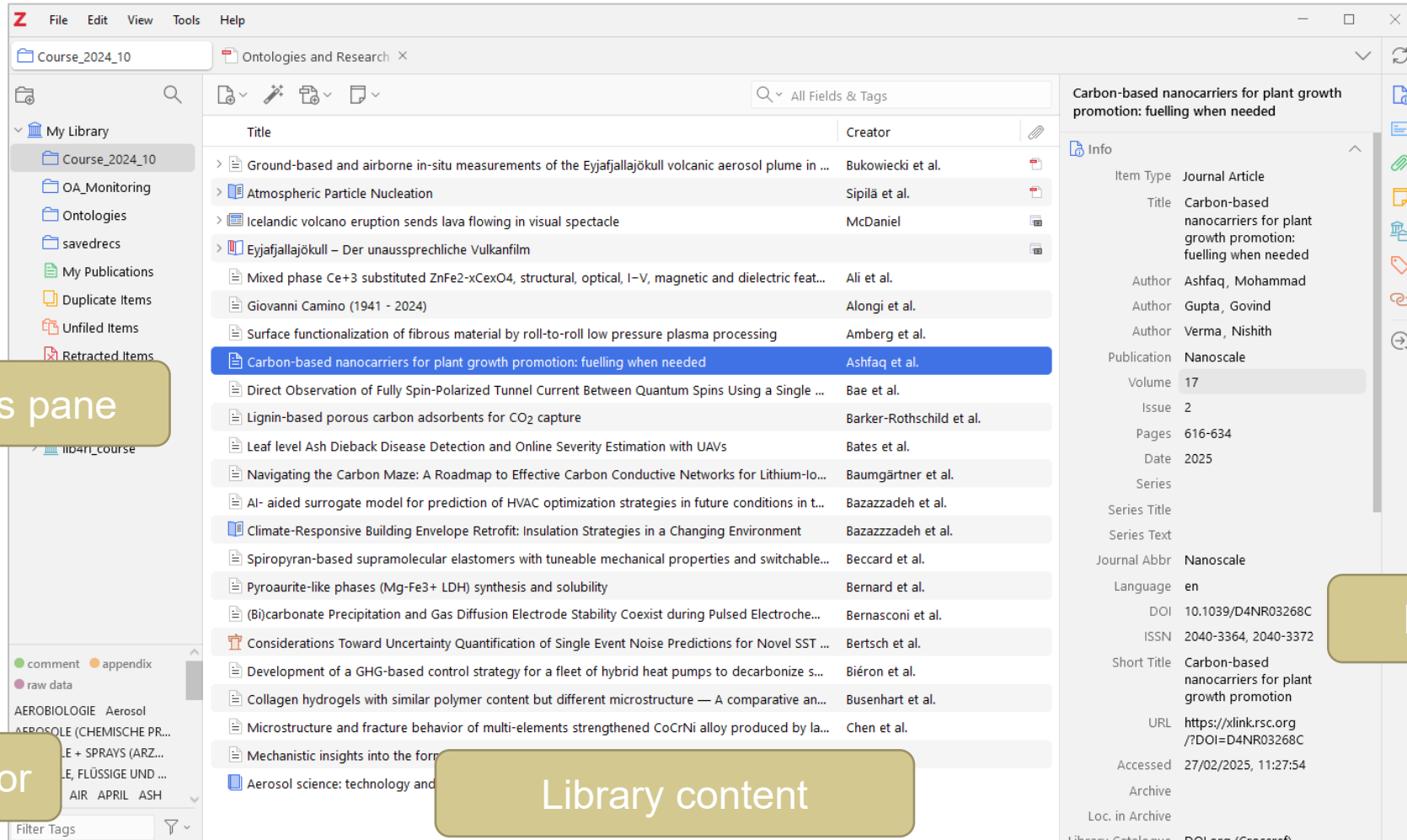
- Create a collection “Zotero course”
- Go to scholar.google.com and search for a topic of your choice
- Import some references into the “Zotero course” collection



The screenshot shows a Google Scholar search results page for the query "golden jackal". The search results list several articles, including "The flexible social system of the golden jackal, *Canis aureus*" by DW Macdonald, "Current status and distribution of golden jackals *Canis aureus* in Europe" by J Arnold et al., "Genome-wide evidence reveals that African and Eurasian golden jackals are distinct species" by KP Koepfli et al., and "Diet composition of the golden jackal *Canis aureus* in south-east Europe – a review" by PN Lange et al. A Zotero Connector extension window is open, titled "Extension: (Zotero Connector) - Zotero Item Selector - Mozilla Firefox". The window displays a list of search results with checkboxes for selection. The selected items are: "The flexible social system of the golden jackal, *Canis aureus*", "Current status and distribution of golden jackals *Canis aureus* in Europe", "Genome-wide evidence reveals that African and Eurasian golden jackals are distinct species", "Diet composition of the golden jackal *Canis aureus* in south-east Europe – a review", "Population densities and habitat use of the golden jackal (*Canis aureus*) in farmlands across the Balkan Peninsula", "Golden jackal expansion in Europe: First telemetry evidence of a natal dispersal", "A synoptic overview of golden jackal parasites reveals high diversity of species", and "Legal implications of range expansions in a terrestrial carnivore: the case of the golden jackal (*Canis aureus*)". The window also includes a "Pattern" input field, "Select All", "Deselect All", "Cancel", and "OK" buttons.

*if you don't have content yet

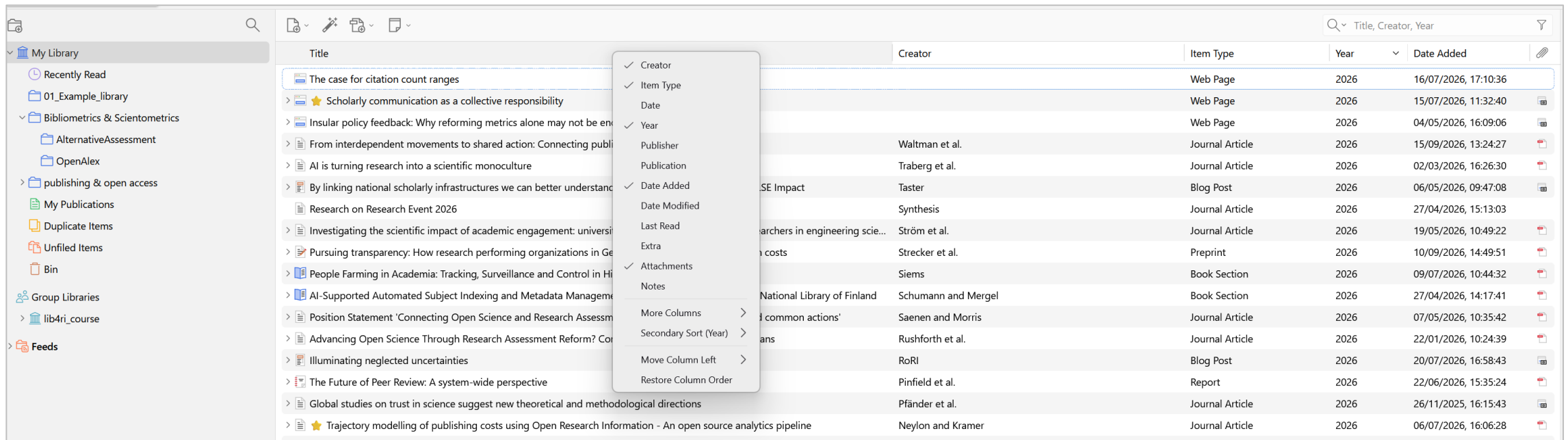
Example library:



The screenshot displays the Zotero desktop application interface. On the left, the 'Collections pane' shows a hierarchical view of the library structure, including 'My Library', 'Course_2024_10', 'OA_Monitoring', 'Ontologies', 'savedrecs', 'My Publications', 'Duplicate Items', 'Unfiled Items', and 'Retracted Items'. Below this, the 'Tag selector' shows a list of tags such as 'comment', 'appendix', 'raw data', 'AEROBIOLOGIE Aerosol', 'AEROSOLE (CHEMISCHE PR...', 'LE + SPRAYS (ARZ...', 'LE, FLÜSSIGE UND ...', and 'AIR APRIL ASH'. The main 'Library content' area displays a list of items with columns for 'Title' and 'Creator'. The 'Item panes' on the right show the details for the selected item, 'Carbon-based nanocarriers for plant growth promotion: fuelling when needed', including its 'Info' (Journal Article), 'Author' (Ashfaq, Mohammad), 'Publication' (Nanoscale), 'Volume' (17), 'Issue' (2), 'Pages' (616-634), 'Date' (2025), 'Series' (Nanoscale), 'Language' (en), 'DOI' (10.1039/D4NR03268C), 'ISSN' (2040-3364, 2040-3372), 'Short Title' (Carbon-based nanocarriers for plant growth promotion), 'URL' (https://xlink.rsc.org/?DOI=D4NR03268C), 'Accessed' (27/02/2025, 11:27:54), 'Archive', and 'Loc. in Archive'.

Organizing your library II

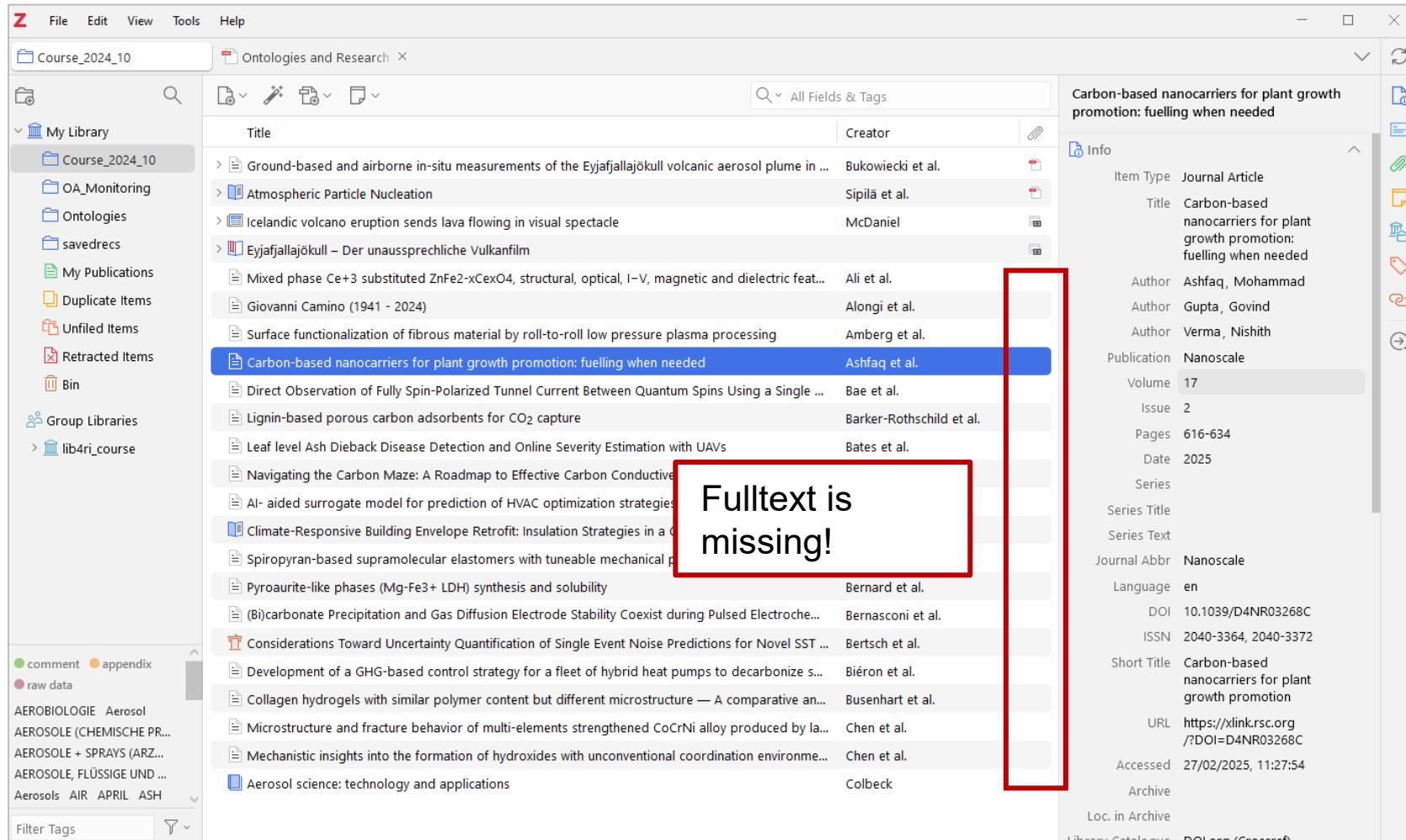
- Right-click any column in the library content to add item fields
- Organise columns with drag & drop
- Add a secondary sort if wanted



The screenshot shows the Zotero library interface. On the left is a sidebar with a tree view containing 'My Library', 'Recently Read', '01_Example_library', 'Bibliometrics & Scientometrics' (with sub-items 'AlternativeAssessment' and 'OpenAlex'), 'publishing & open access', 'My Publications', 'Duplicate Items', 'Unfiled Items', 'Bin', 'Group Libraries', and 'lib4ri_course'. The main area displays a table of library items. A right-click context menu is open over the 'Date Added' column header, showing options: 'Creator', 'Item Type', 'Date', 'Year', 'Publisher', 'Publication', 'Date Added' (checked), 'Date Modified', 'Last Read', 'Extra', 'Attachments', 'Notes', 'More Columns', 'Secondary Sort (Year)', 'Move Column Left', and 'Restore Column Order'. The table has columns: Title, Creator, Item Type, Year, and Date Added. The 'Year' column has a dropdown arrow. The 'Date Added' column has a clock icon. The table contains 15 rows of data, including items like 'The case for citation count ranges', 'Scholarly communication as a collective responsibility', 'Insular policy feedback: Why reforming metrics alone may not be enough', etc.

Title	Creator	Item Type	Year	Date Added
The case for citation count ranges		Web Page	2026	16/07/2026, 17:10:36
Scholarly communication as a collective responsibility		Web Page	2026	15/07/2026, 11:32:40
Insular policy feedback: Why reforming metrics alone may not be enough		Web Page	2026	04/05/2026, 16:09:06
From interdependent movements to shared action: Connecting public and private	Waltman et al.	Journal Article	2026	15/09/2026, 13:24:27
AI is turning research into a scientific monoculture	Traberg et al.	Journal Article	2026	02/03/2026, 16:26:30
By linking national scholarly infrastructures we can better understand the digital research landscape	Taster	Blog Post	2026	06/05/2026, 09:47:08
Research on Research Event 2026	Synthesis	Journal Article	2026	27/04/2026, 15:13:03
Investigating the scientific impact of academic engagement: university research	Ström et al.	Journal Article	2026	19/05/2026, 10:49:22
Pursuing transparency: How research performing organizations in Germany manage costs	Strecker et al.	Preprint	2026	10/09/2026, 14:49:51
People Farming in Academia: Tracking, Surveillance and Control in Higher Education	Siems	Book Section	2026	09/07/2026, 10:44:32
AI-Supported Automated Subject Indexing and Metadata Management	Schumann and Mergel	Book Section	2026	27/04/2026, 14:17:41
Position Statement 'Connecting Open Science and Research Assessment'	Saenen and Morris	Journal Article	2026	07/05/2026, 10:35:42
Advancing Open Science Through Research Assessment Reform? Conclusions	Rushforth et al.	Journal Article	2026	22/01/2026, 10:24:39
Illuminating neglected uncertainties	RoRI	Blog Post	2026	20/07/2026, 16:58:43
The Future of Peer Review: A system-wide perspective	Pinfield et al.	Report	2026	22/06/2026, 15:35:24
Global studies on trust in science suggest new theoretical and methodological directions	Pfänder et al.	Journal Article	2026	26/11/2025, 16:15:43
Trajectory modelling of publishing costs using Open Research Information - An open source analytics pipeline	Neylon and Kramer	Journal Article	2026	06/07/2026, 16:06:28

Example library:



The screenshot displays the Zotero application window. On the left, the 'My Library' sidebar shows a tree view with folders like 'Course_2024_10', 'OA_Monitoring', 'Ontologies', 'savedrecs', 'My Publications', 'Duplicate Items', 'Unfiled Items', 'Retracted Items', 'Bin', 'Group Libraries', and 'lib4ri_course'. The main pane shows a list of items with columns for 'Title' and 'Creator'. The item 'Carbon-based nanocarriers for plant growth promotion: fuelling when needed' by Ashfaq et al. is selected. A red box highlights the 'Fulltext is missing!' status for this item. On the right, the 'Info' pane shows details for the selected item, including 'Item Type: Journal Article', 'Title: Carbon-based nanocarriers for plant growth promotion: fuelling when needed', 'Author: Ashfaq, Mohammad', 'Author: Gupta, Govind', 'Author: Verma, Nishith', 'Publication: Nanoscale', 'Volume: 17', 'Issue: 2', 'Pages: 616-634', 'Date: 2025', 'Series', 'Series Title', 'Series Text', 'Journal Abbr: Nanoscale', 'Language: en', 'DOI: 10.1039/D4NR03268C', 'ISSN: 2040-3364, 2040-3372', 'Short Title: Carbon-based nanocarriers for plant growth promotion', 'URL: https://xlink.rsc.org/?DOI=D4NR03268C', 'Accessed: 27/02/2025, 11:27:54', 'Archive', and 'Loc. in Archive'.

Title	Creator
Ground-based and airborne in-situ measurements of the Eyjafjallajökull volcanic aerosol plume in ...	Bukowiecki et al.
Atmospheric Particle Nucleation	Sipilä et al.
Icelandic volcano eruption sends lava flowing in visual spectacle	McDaniel
Eyjafjallajökull – Der unaussprechliche Vulkanfilm	
Mixed phase Ce+3 substituted ZnFe2-xCexO4, structural, optical, I–V, magnetic and dielectric feat...	Ali et al.
Giovanni Camino (1941 - 2024)	Alongi et al.
Surface functionalization of fibrous material by roll-to-roll low pressure plasma processing	Amberg et al.
Carbon-based nanocarriers for plant growth promotion: fuelling when needed	Ashfaq et al.
Direct Observation of Fully Spin-Polarized Tunnel Current Between Quantum Spins Using a Single ...	Bae et al.
Lignin-based porous carbon adsorbents for CO ₂ capture	Barker-Rothschild et al.
Leaf level Ash Dieback Disease Detection and Online Severity Estimation with UAVs	Bates et al.
Navigating the Carbon Maze: A Roadmap to Effective Carbon Conductive	
AI- aided surrogate model for prediction of HVAC optimization strategies	
Climate-Responsive Building Envelope Retrofit: Insulation Strategies in a C	
Spiropyran-based supramolecular elastomers with tuneable mechanical p	
Pyroaurite-like phases (Mg-Fe3+ LDH) synthesis and solubility	Bernard et al.
(Bi)carbonate Precipitation and Gas Diffusion Electrode Stability Coexist during Pulsed Electroche...	Bernasconi et al.
Considerations Toward Uncertainty Quantification of Single Event Noise Predictions for Novel SST ...	Bertsch et al.
Development of a GHG-based control strategy for a fleet of hybrid heat pumps to decarbonize s...	Biéron et al.
Collagen hydrogels with similar polymer content but different microstructure — A comparative an...	Busenhardt et al.
Microstructure and fracture behavior of multi-elements strengthened CoCrNi alloy produced by la...	Chen et al.
Mechanistic insights into the formation of hydroxides with unconventional coordination environme...	Chen et al.
Aerosol science: technology and applications	Colbeck

Fulltext is missing!

Carbon-based nanocarriers for plant growth promotion: fuelling when needed

Info

Item Type: Journal Article

Title: Carbon-based nanocarriers for plant growth promotion: fuelling when needed

Author: Ashfaq, Mohammad

Author: Gupta, Govind

Author: Verma, Nishith

Publication: Nanoscale

Volume: 17

Issue: 2

Pages: 616-634

Date: 2025

Series

Series Title

Series Text

Journal Abbr: Nanoscale

Language: en

DOI: 10.1039/D4NR03268C

ISSN: 2040-3364, 2040-3372

Short Title: Carbon-based nanocarriers for plant growth promotion

URL: https://xlink.rsc.org/?DOI=D4NR03268C

Accessed: 27/02/2025, 11:27:54

Archive

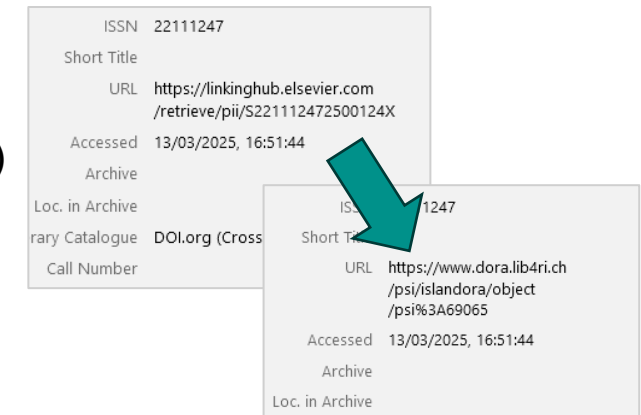
Loc. in Archive

Retrieve missing full text

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

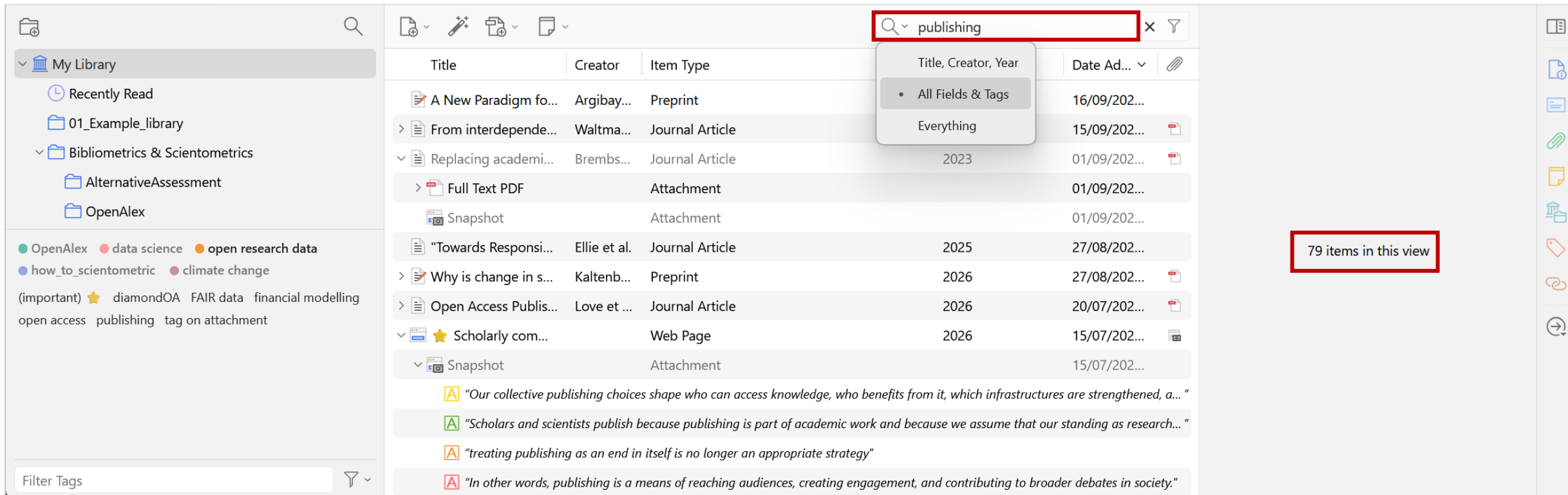


- **Solution II:** Retrieve PDF from source and attach via drag & drop
- **Solution III:** Change the URL in metadata to open repository (e.g. DORA)
- **Tip:** No chance to retrieve the PDF?
Get in touch with the [Lib4RI document delivery service!](#)



Finding items – Quick search

- Refine or extend the quick search in the dropdown menu



The screenshot shows the Zotero desktop application interface. On the left is a sidebar with a 'My Library' section containing folders like 'Recently Read', '01_Example_library', and 'Bibliometrics & Scientometrics'. Below these are various tags such as 'OpenAlex', 'data science', and 'open research data'. The main pane displays a search results table for the query 'publishing'. A dropdown menu is open over the search bar, showing options: 'Title, Creator, Year', 'All Fields & Tags' (which is selected), and 'Everything'. The table lists several items, including preprints and journal articles. On the right side of the interface, a red box highlights the text '79 items in this view'.

Title	Creator	Item Type	Date Added
A New Paradigm fo...	Argibay...	Preprint	16/09/202...
> From interdepende...	Waltma...	Journal Article	15/09/202...
> Replacing academi...	Brembs...	Journal Article	01/09/202...
> Full Text PDF		Attachment	01/09/202...
Snapshot		Attachment	01/09/202...
"Towards Responsi...	Ellie et al.	Journal Article	27/08/202...
> Why is change in s...	Kaltenb...	Preprint	27/08/202...
> Open Access Publis...	Love et ...	Journal Article	20/07/202...
> Scholarly com...		Web Page	15/07/202...
> Snapshot		Attachment	15/07/202...
"Our collective publishing choices shape who can access knowledge, who benefits from it, which infrastructures are strengthened, a..."			
"Scholars and scientists publish because publishing is part of academic work and because we assume that our standing as research..."			
"treating publishing as an end in itself is no longer an appropriate strategy"			
"In other words, publishing is a means of reaching audiences, creating engagement, and contributing to broader debates in society."			

Finding items – Advanced search

- Refine or extend the quick search in the dropdown menu
- Go to advanced search through the filter symbol for more complex queries

The screenshot displays the Zotero application interface. On the left, a sidebar shows the 'My Library' structure with folders like 'Recently Read', '01_Example_library', and 'Bibliometrics & Scientometrics'. Below these are various tags such as 'OpenAlex', 'data science', and 'open research data'. The main area features a search bar with the query 'publishing'. A dropdown menu is open, showing options: 'Title, Creator, Year', 'All Fields & Tags' (highlighted), and 'Everything'. Below the search bar is a table of search results with columns for Title, Creator, Item Type, and Date Added. The table lists several items, including 'A New Paradigm fo...', 'From interdependence...', 'Replacing academi...', 'Full Text PDF', 'Snapshot', 'Towards Responsi...', 'Why is change in s...', 'Open Access Publis...', 'Scholarly com...', and 'Snapshot'. The right sidebar indicates '79 items in this view'.

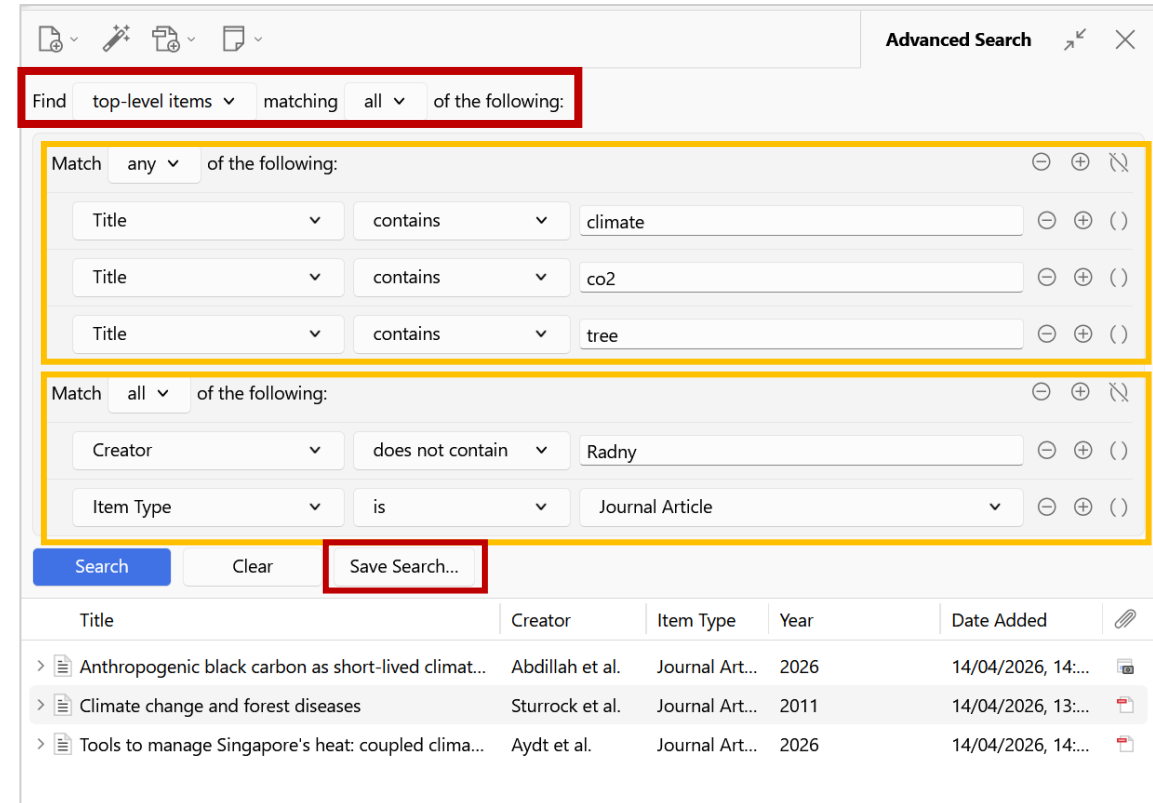
Title	Creator	Item Type	Date Added
A New Paradigm fo...	Argibay...	Preprint	16/09/202...
> From interdependence...	Waltma...	Journal Article	15/09/202...
> Replacing academi...	Brembs...	Journal Article	01/09/202...
> Full Text PDF		Attachment	01/09/202...
Snapshot		Attachment	01/09/202...
"Towards Responsi...	Ellie et al.	Journal Article	27/08/202...
> Why is change in s...	Kaltenb...	Preprint	27/08/202...
> Open Access Publis...	Love et ...	Journal Article	20/07/202...
> Scholarly com...		Web Page	15/07/202...
> Snapshot		Attachment	15/07/202...

Finding items – Advanced search

- Search in My library (all) or specific collections
- Match **all** or **any** of the definitions (analogous to OR and AND)
- Since Zotero 10: Nested conditions are possible
 - Click () to define nested conditions
- Results of the advanced search can be saved and will appear like a regular collection

Hands-on:

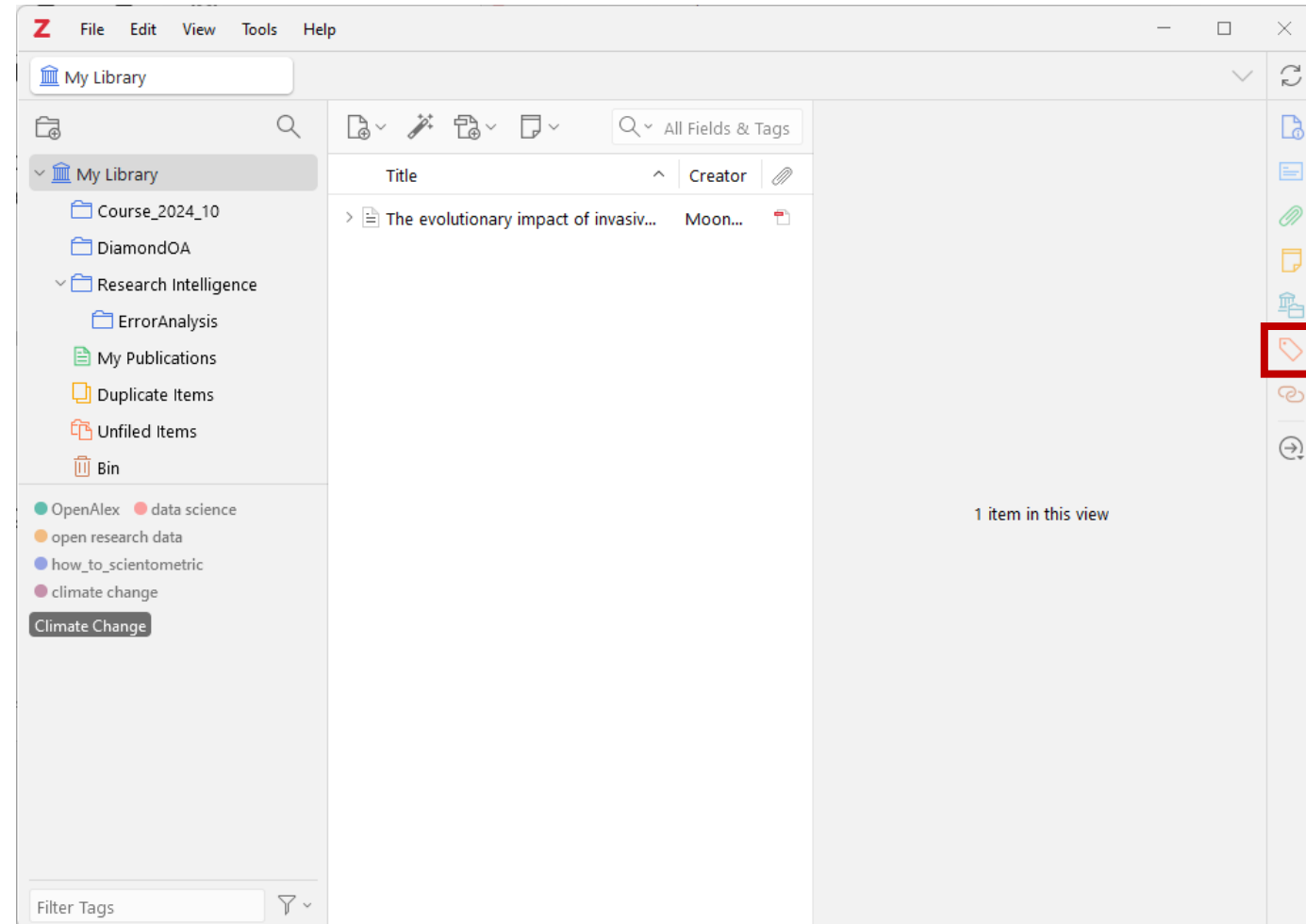
- Use the advanced search based on three or more conditions and at least one nested condition
- What happens if you search other than top-level items?



Title	Creator	Item Type	Year	Date Added	
> Anthropogenic black carbon as short-lived climat...	Abdillah et al.	Journal Art...	2026	14/04/2026, 14:...	
> Climate change and forest diseases	Sturrock et al.	Journal Art...	2011	14/04/2026, 13:...	
> Tools to manage Singapore's heat: coupled clima...	Aydt et al.	Journal Art...	2026	14/04/2026, 14:...	

Finding items – Tags

- Create individual tags that fit your personal workflow or categorization
- Highlight up to nine tags with colours
 - Right-click any tag and choose “Assign colour”
- Library can be filtered for tags
- Tags are case sensitive!
- Rename tags with right-click



Automatic tags

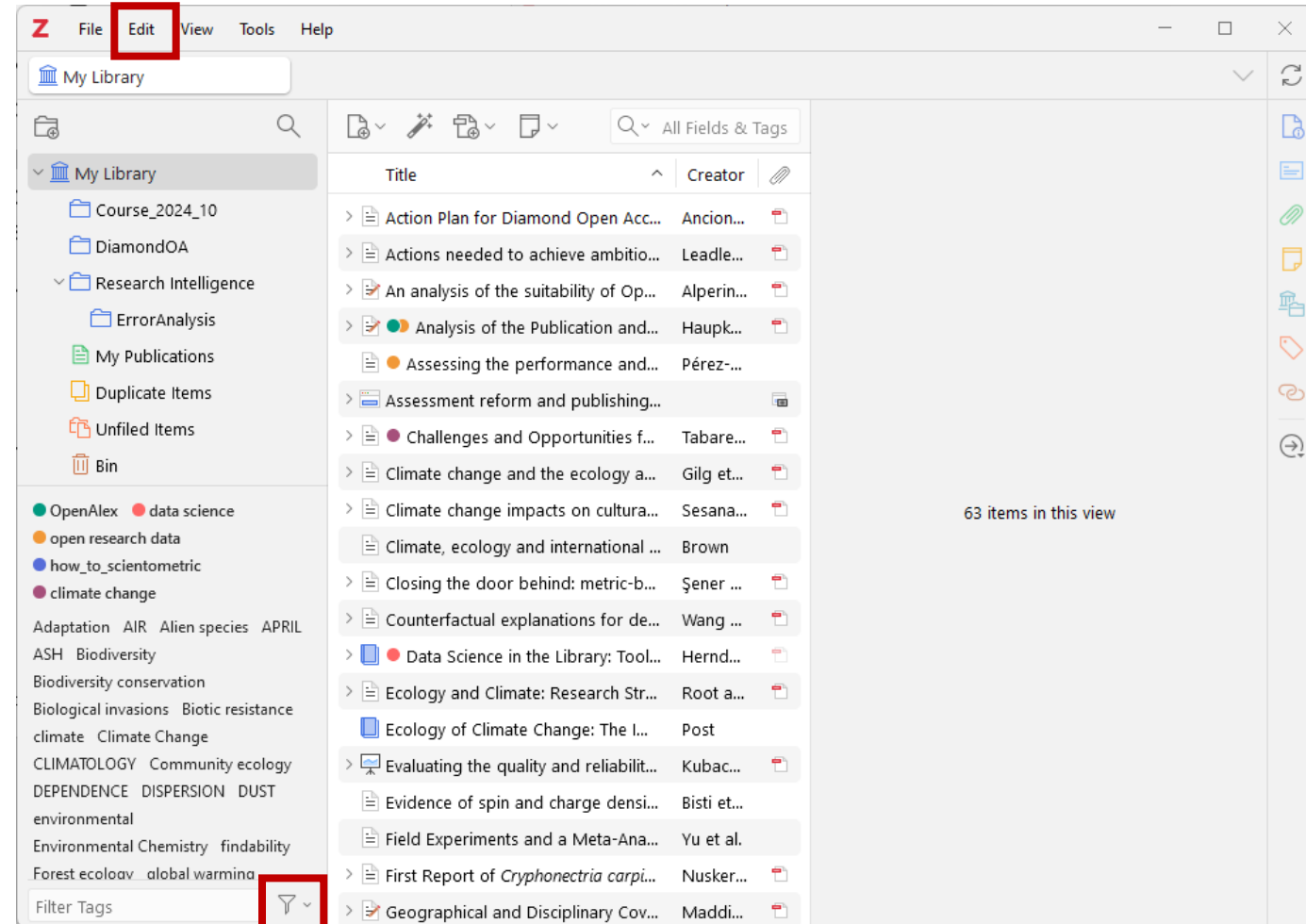
- Some publishers deliver items with automatic tags
- May clutter your tags at some point

Solution I:

- Click the filter symbol
- Uncheck “show automatic”

Solution II:

- Permanently disable auto-tagging:
- *Edit > Settings > General > Miscellaneous*



Step 3: Read, annotate, summarize

Document reader

- Works with most attachment types, incl. snapshots
- Document outline and search in text
- Interactive cross-references (citations, tables, figures...)
- Mark sections to create annotations
- Tags and comments can be added to any annotation

The screenshot displays the Document Reader application. The main window shows a document titled 'Vertical distribution of mi...' with a search bar and a list of annotations. The sidebar on the left contains a list of annotations, each with a tag and a comment. The document text is visible in the background, showing a paragraph about the total biomass of spring onions and the effect of PES microplastics.

Annotations in the sidebar include:

- Page 4: The shoot and root mass of spring onions may be among those not affected by 0.4 % PES under...
- Page 4: speak to XYZ about this! note to myself
- Page 4: Even though a significant difference was observed between the homogeneous treatment and Het 3 this is my own comment on the underlined text part
- Page 4: For shoot mass under drought conditions, a significant increase was observed in all heterogeneous treatments (Het 1, Het 2, Het 3) compared to the homogeneous treatment under drought conditions (Table 1, Fig. 1A; drought conditions). The exacerbated effect; which was not visible under no-drought conditions, may be due to the increase in the number of factors, even though the tested factors do not have a

The document text in the background includes:

the total biomass of spring onions when subjected to 0.2 % PES micro- however stating that the change was with in the belowground bulb. [Lehmann](#) crease in shoot and root mass in *Allium* S microfibers compared to the control. d and the source of microplastics differ, [vzano and Rillig \(2022\)](#) also tested the plants and stated that the effect might [sanayake et al. \(2022\)](#) confirmed that on species, soil, and microplastic prop- further emphasized that the impact on influenced by contamination, soil, and f spring onions may be among those not ogeous distribution. However, under MPs, they seem to show a different el of MP heterogeneity. The reason no nogeneous treatment, but a trend was : due to the higher MP concentration in hesized effect pathways of a possible unges in soil structure and bulk density al. (2019a) indicated that fibers might soil structure. Even though the mecha- bers may integrate into soil aggregates bers also may act as 'spacers' leading to ing root growth ([Rillig et al., 2019c](#)). e due to change in soil structure, which tion of MPs in the top layers, as MP s higher in heterogeneous treatments s one. However, since a trend was

the first three weeks of the experiment is visible in Figure S1(a); now- ever, no significant difference or trend was observed at the end of the three weeks or after two months, at the conclusion of the experiment (Table S4).

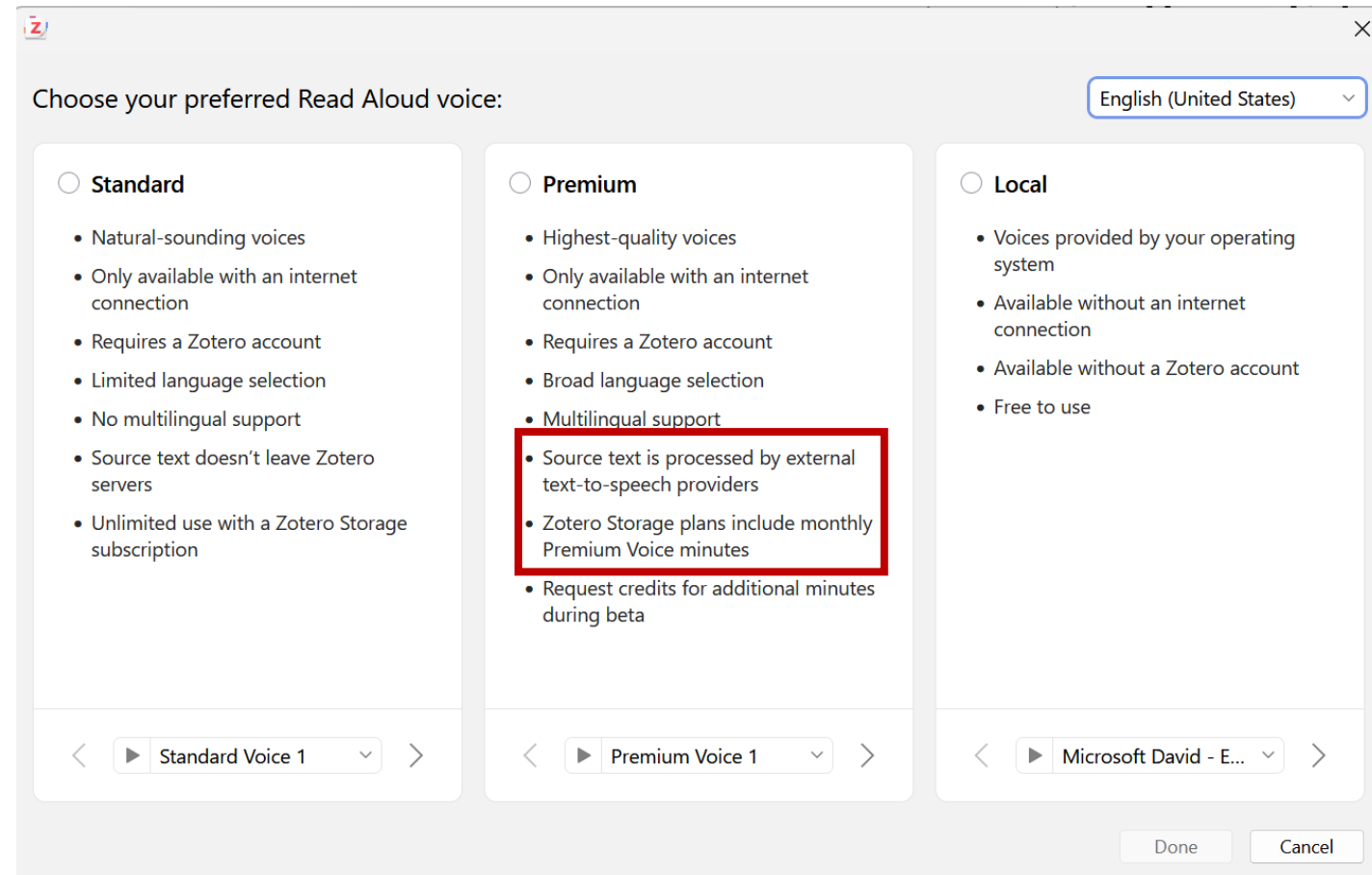
Carbon and nitrogen are essential for plants to perform routine and fundamental cellular activities. Therefore, maintaining an appropriate balance or ratio of these nutrients is crucial from a metabolic perspective ([Zheng, 2009](#)). The C:N ratio of the shoot of control treatment was found higher than in the homogeneous treatment, when there was no-drought conditions simulated, while no difference was found between homoge- neous treatment and Het 1 and Het 2, supporting the fact that the distri- bution of MPs in soil may have a different impact on plant responses. Even though a significant difference was observed between the homo- geneous treatment and Het 3, this is because the homogeneous treat- ment has much lower C:N ratio. The C:N ratio of Het 3 is nearly the same as the control. This may be due to the fact that the plant may have adjusted or recovered after it reached the lower layers of soil, which has no MPs, while in the homogeneous treatment, this shift was not possible even though the MP concentration is lower in the top layer.

4.2. Responses under drought; effect of level of MP heterogeneity under drought conditions

For shoot mass under drought conditions, a significant increase was observed in all heterogeneous treatments (Het 1, Het 2, Het 3) compared to the homogeneous treatment under drought conditions (Table 1, Fig. 1A; drought conditions). The exacerbated effect; which was not visible under no-drought conditions, may be due to the increase in the number of factors, even though the tested factors do not have a

Read Aloud

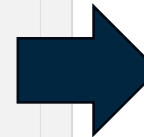
- Available since Zotero 9 (May 2026)
- Avoid the Premium version!
 - Text is processed by external providers
 - Causes additional costs (not covered by institutional plan)



Creating notes while reading

- All annotations, e.g. highlighted passages, screenshots..., can be collected in notes
- Item notes keep track of your annotations and are attached to the library item

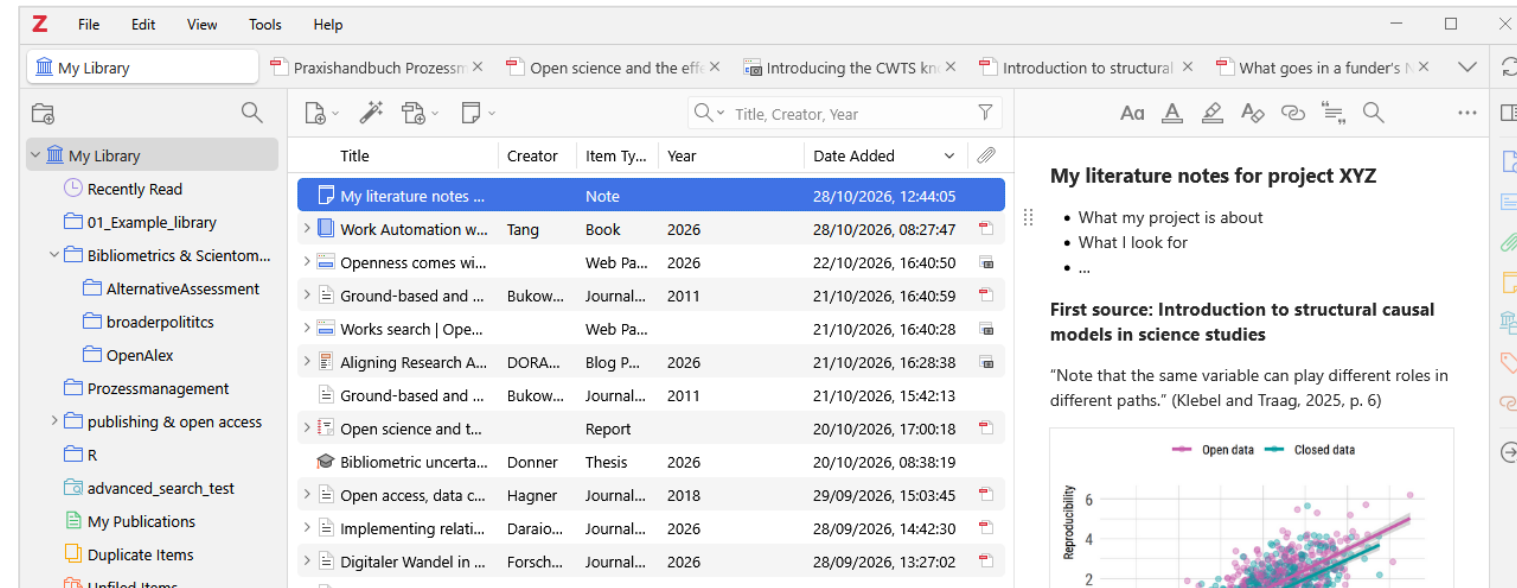
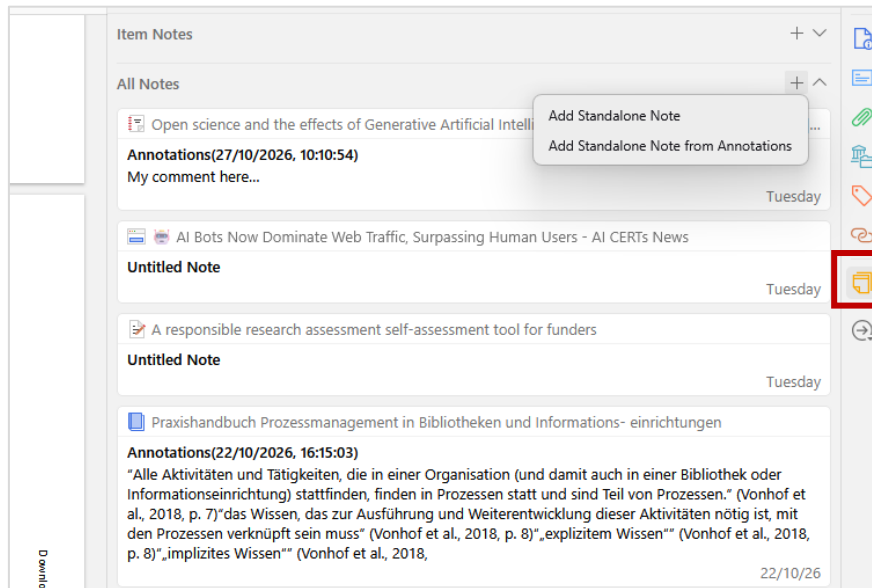
The screenshot shows the Lib4RI application window. The main pane displays a document titled "Introduction to structural causal models in science studies". The document content includes a scatterplot of "Reproducibility" vs "Rigour" with two data series: "Open data" (pink dots) and "Closed data" (teal dots). The scatterplot shows a positive correlation. The sidebar on the left contains a list of annotations for "Page 6". One annotation is highlighted: "Note that the same variable can play different roles in different paths. For example, in Figure 1, Open data plays the role of a collider in the path Reproducibility ← Open data → Data Reuse → Citations. At the same time, Open data plays the role of a collider in the path Reproducibility ← Rigour → Open data ← Field → Citations. The former path is open, while the latter path is closed. If we are interested in the causal effect, both paths should be closed, since neither represents a causal effect. However, if we condition on Open data, we close the path where Open data is a collider, while we open the path where Open data is a confounder. Hence, we cannot close both paths by conditioning on Open data. If we cannot condition on other variables, for example because we did not collect such variables for a study, we have no way of identifying the causal effect of Reproducibility on Citations. Our assumed DAG implies that there should be no causal effect of Reproducibility on Citations. If we con..."



The screenshot shows the Zotero application window. The main pane displays the same document as the Lib4RI interface. The sidebar on the right contains a list of annotations for "Page 6". One annotation is highlighted: "Note that the same variable can play different roles in different paths. For example, in Figure 1, Open data plays the role of a collider in the path Reproducibility ← Open data → Data Reuse → Citations. At the same time, Open data plays the role of a collider in the path Reproducibility ← Rigour → Open data ← Field → Citations. The former path is open, while the latter path is closed. If we are interested in the causal effect, both paths should be closed, since neither represents a causal effect. However, if we condition on Open data, we close the path where Open data is a collider, while we open the path where Open data is a confounder. Hence, we cannot close both paths by conditioning on Open data. If we cannot condition on other variables, for example because we did not collect such variables for a study, we have no way of identifying the causal effect of Reproducibility on Citations. Our assumed DAG implies that there should be no causal effect of Reproducibility on Citations. If we con..."

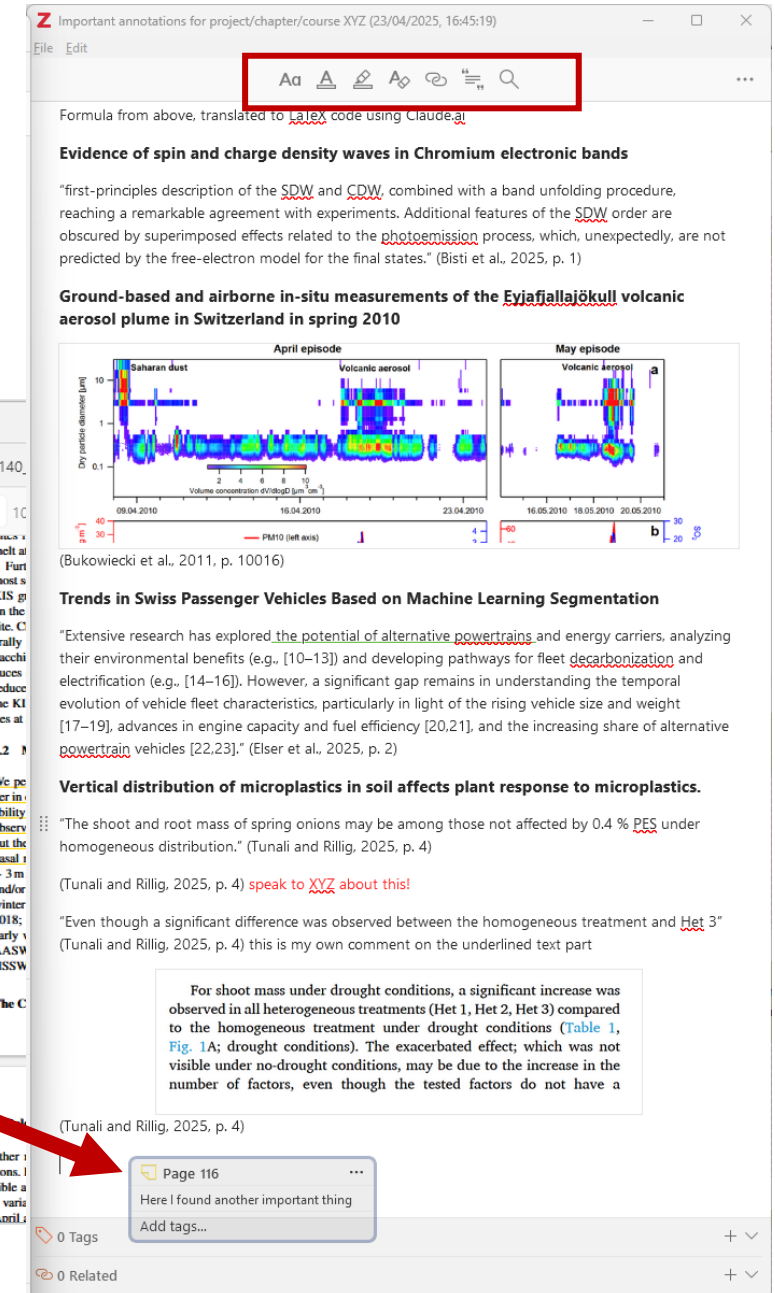
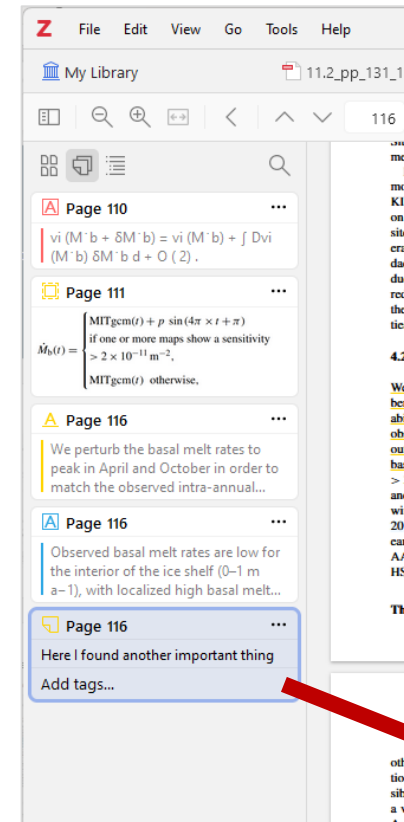
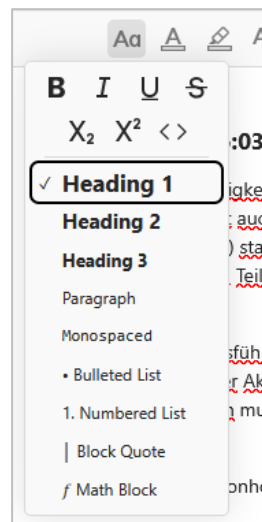
Creating notes while reading

- All annotations, e.g. highlighted passages, screenshots..., can be collected in notes
- Item notes keep track of your annotations and are attached to the library item
- Use standalone notes to collect annotations across different items
- Standalone notes are displayed like regular library items



Working with notes

- All notes have a reference and link to the exact position of the annotation
- Use it in a separate window by clicking “...” to work in other documents in parallel
- Drag and drop new annotations
- Format and stylize notes as needed



Hands-on: Create your own note

- In your course collection, add some annotations to two or more PDFs
- Create a standalone note and open it in a separate window
- Create a new annotation in any PDF and add it via drag & drop
- Time left? Play a bit with formatting!

The screenshot displays the Zotero application interface. On the left, a sidebar shows a list of PDFs with annotations. The main window shows a PDF document with several annotations. A red arrow points from an annotation in the PDF to a separate note window. The note window contains the following text:

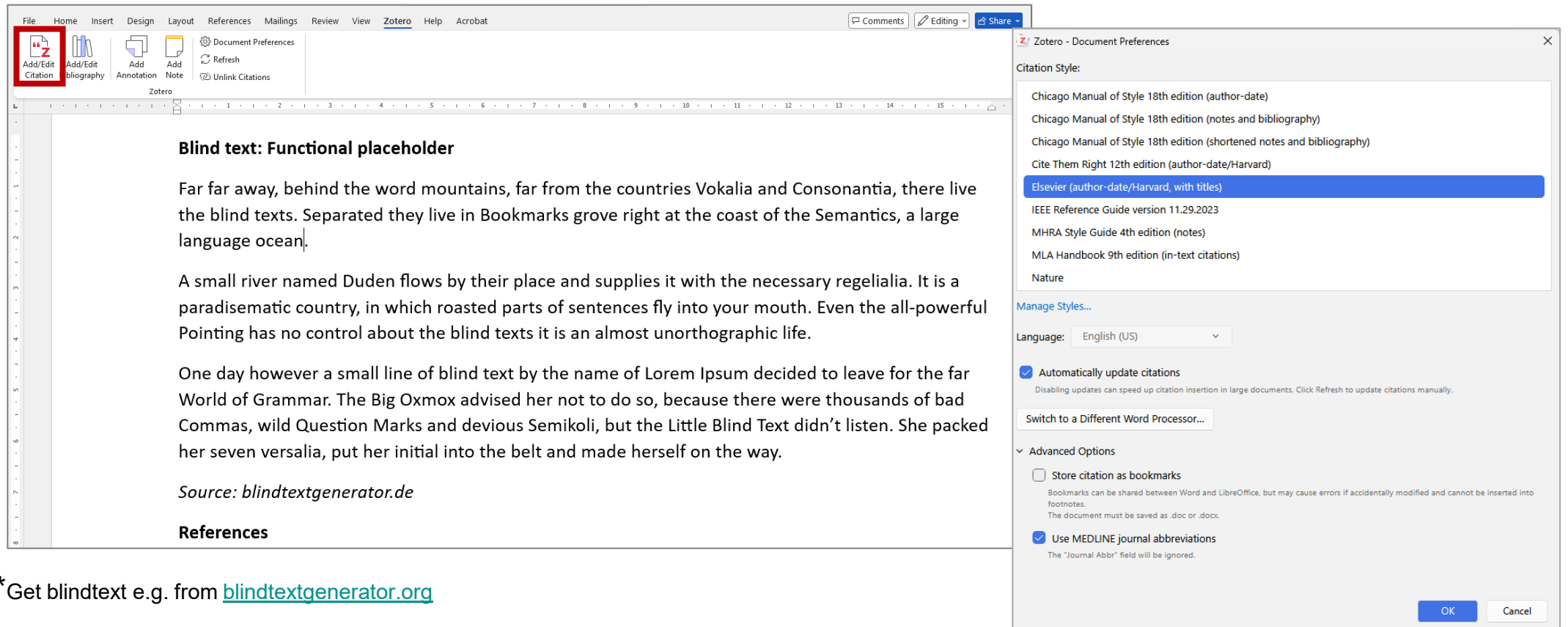
Here I found another important thing
Add tags...

The PDF document shows annotations on various pages, including mathematical formulas and text excerpts. A red box highlights the Zotero toolbar at the top of the PDF window.

30 min break!

Step 4: Cite-while-you-write

Cite-while-you-write



Blind text: Functional placeholder

Far far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts. Separated they live in Bookmarks grove right at the coast of the Semantics, a large language ocean.

A small river named Duden flows by their place and supplies it with the necessary regelialia. It is a paradisematic country, in which roasted parts of sentences fly into your mouth. Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life.

One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar. The Big Oxmox advised her not to do so, because there were thousands of bad Commas, wild Question Marks and devious Semikoli, but the Little Blind Text didn't listen. She packed her seven versalia, put her initial into the belt and made herself on the way.

Source: blindtextgenerator.de

References

Zotero - Document Preferences

Citation Style:

- Chicago Manual of Style 18th edition (author-date)
- Chicago Manual of Style 18th edition (notes and bibliography)
- Chicago Manual of Style 18th edition (shortened notes and bibliography)
- Cite Them Right 12th edition (author-date/Harvard)
- Elsevier (author-date/Harvard, with titles)**
- IEEE Reference Guide version 11.29.2023
- MHRA Style Guide 4th edition (notes)
- MLA Handbook 9th edition (in-text citations)
- Nature

Manage Styles...

Language: English (US)

☒ **Automatically update citations**
Disabling updates can speed up citation insertion in large documents. Click Refresh to update citations manually.

[Switch to a Different Word Processor...](#)

Advanced Options

- ☐ **Store citation as bookmarks**
Bookmarks can be shared between Word and LibreOffice, but may cause errors if accidentally modified and cannot be inserted into footnotes.
The document must be saved as .doc or .docx.
- ☒ **Use MEDLINE journal abbreviations**
The "Journal Abbr" field will be ignored.

***Get blindtext e.g. from blindtextgenerator.org**

Document preferences

- Define citation style
- Can be adapted at any time

Commas, wild Question Marks and devious Semikoli, but the Little Blind Text didn't listen. She packed her seven versalia, put her initial into the belt and made herself on the way.¹

Source: blindtextgenerator.de/

References

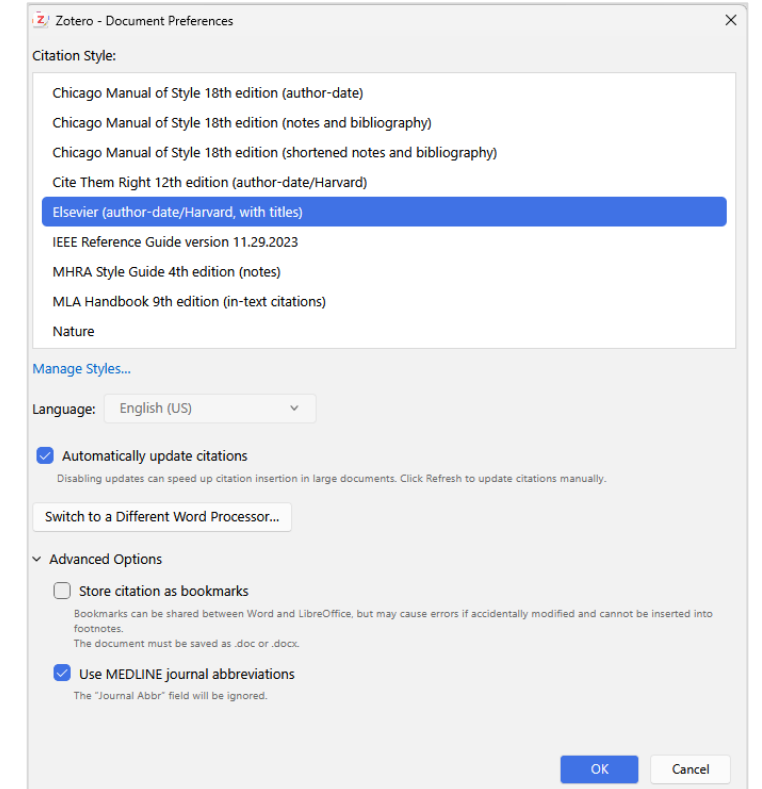
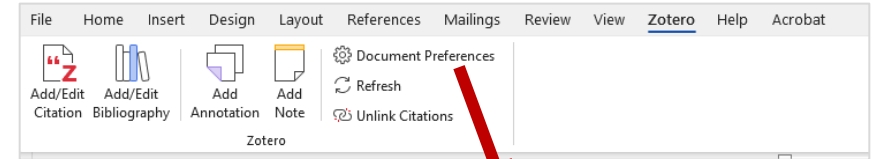
1. Oakley, B., Johnston, M., Chen, K., Jung, E. & Sejnowski, T. The Memory Paradox: Why Our Brains Need Knowledge in an Age of AI. SSRN Scholarly Paper at <https://doi.org/10.2139/ssrn.5250447> (2025).

Commas, wild Question Marks and devious Semikoli, but the Little Blind Text didn't listen. She packed her seven versalia, put her initial into the belt and made herself on the way. (Oakley et al., 2025)

Source: blindtextgenerator.de/

References

- Oakley, B., Johnston, M., Chen, K., Jung, E., Sejnowski, T., 2025. The Memory Paradox: Why Our Brains Need Knowledge in an Age of AI. <https://doi.org/10.2139/ssrn.5250447>



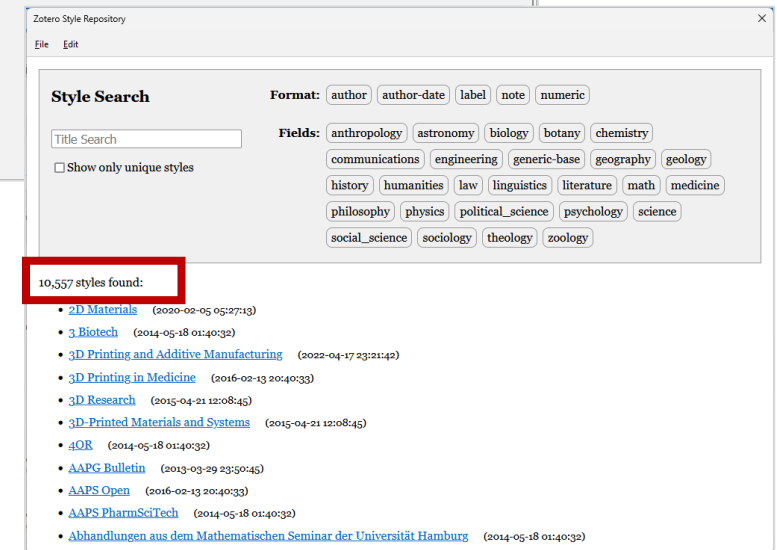
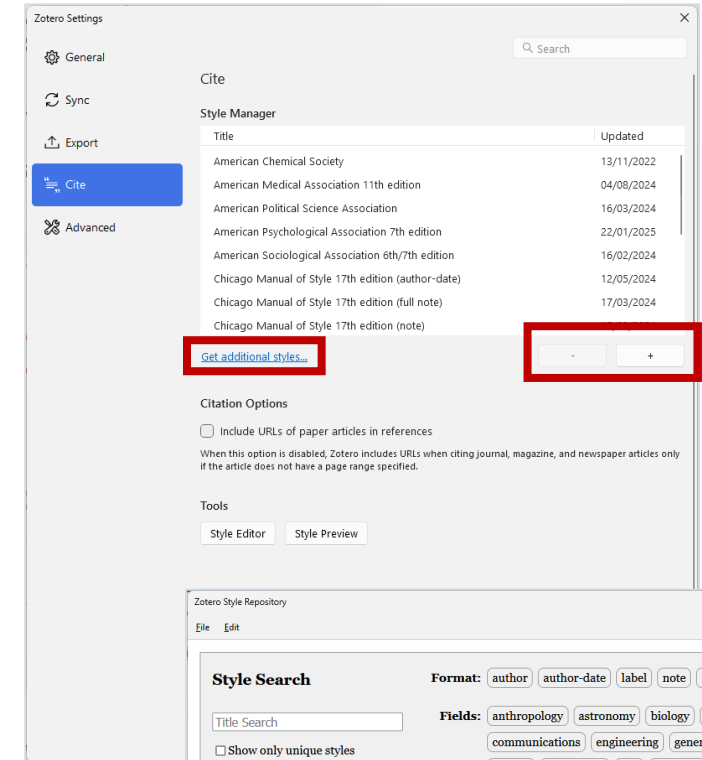
Nature

vs.

Elsevier - Harvard

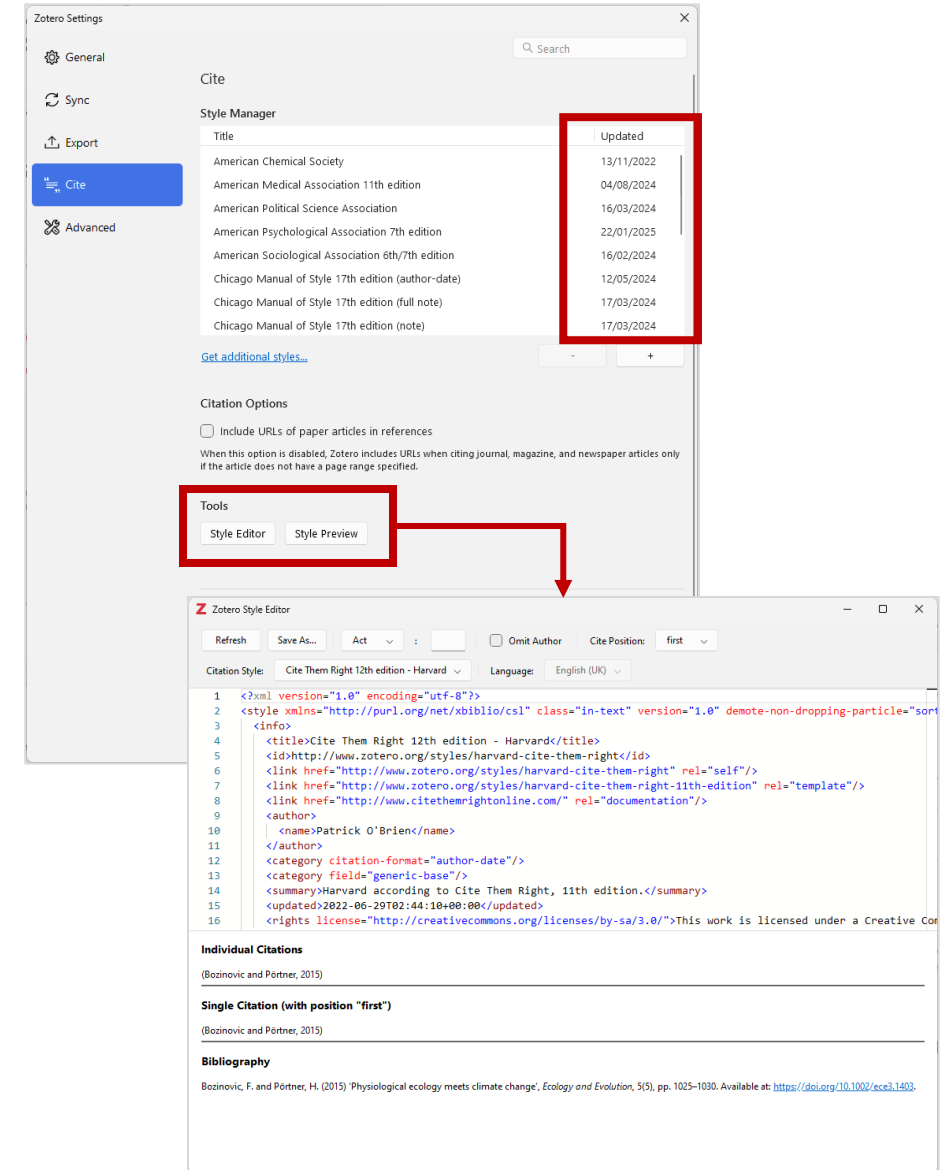
Manage citation styles

- Customise your style list: *Edit > Settings > Cite*
- More styles are available in the repository



Manage citation styles

- Customise your style list: *Edit > Settings > Cite*
- More styles are available in the repository
- **Always cross-check if the style you choose fits the journal's current demands!**
- Styles might be outdated, especially for very small journals
- You can adapt a style if necessary in the style editor (XML knowledge required)



The image shows two screenshots from the Zotero application. The top screenshot is the 'Zotero Settings' window, specifically the 'Cite' tab. It displays a list of citation styles in the 'Style Manager'. A red box highlights the 'Updated' column, showing dates for various styles. Below the list, there are 'Citation Options' and a 'Tools' section with 'Style Editor' and 'Style Preview' buttons. A red arrow points from the 'Style Editor' button to the bottom screenshot. The bottom screenshot is the 'Zotero Style Editor' window, showing the XML code for a citation style. It includes fields for 'Citation Style', 'Language', and 'Cite Position'. The XML code is displayed in a text area, and the bottom section shows the resulting citation format for a single citation and a bibliography.

Citing

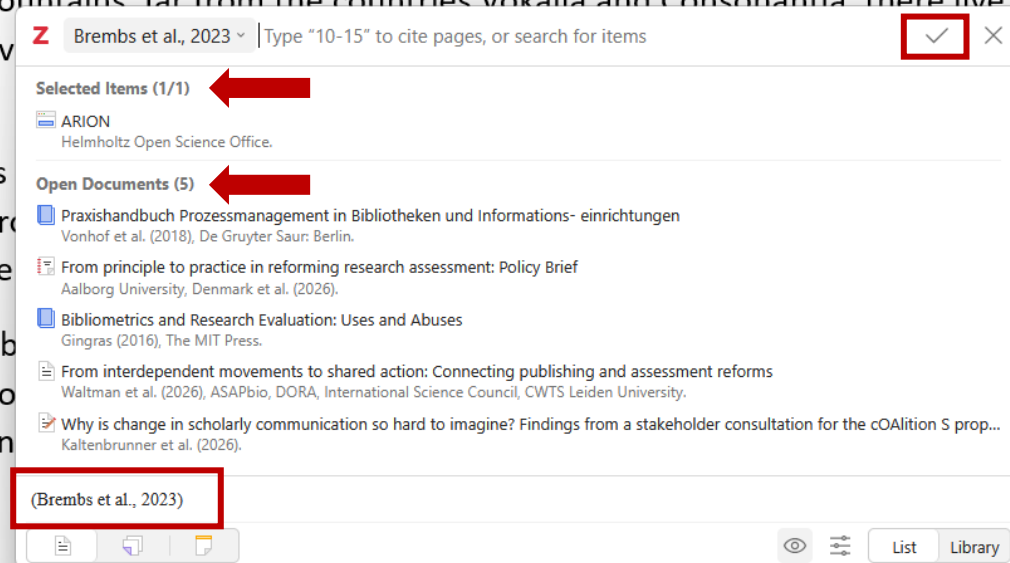
Blind text: Functional placeholder

Far far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts. Separated they live in language ocean{Citation}.

A small river named Duden flows through the paradisematic country, in which rejoice Pointing has no control about the

One day however a small line of big words crossed the World of Grammar. The Big Oxmoor Comjas, wild Question Marks and her seven versalia, put her initial

Source: blindtextgenerator.de



Citing

- Switch between list and library view
- Citation dialogue disappeared? Find it under the Zotero icon in the taskbar

Blind text: Functions

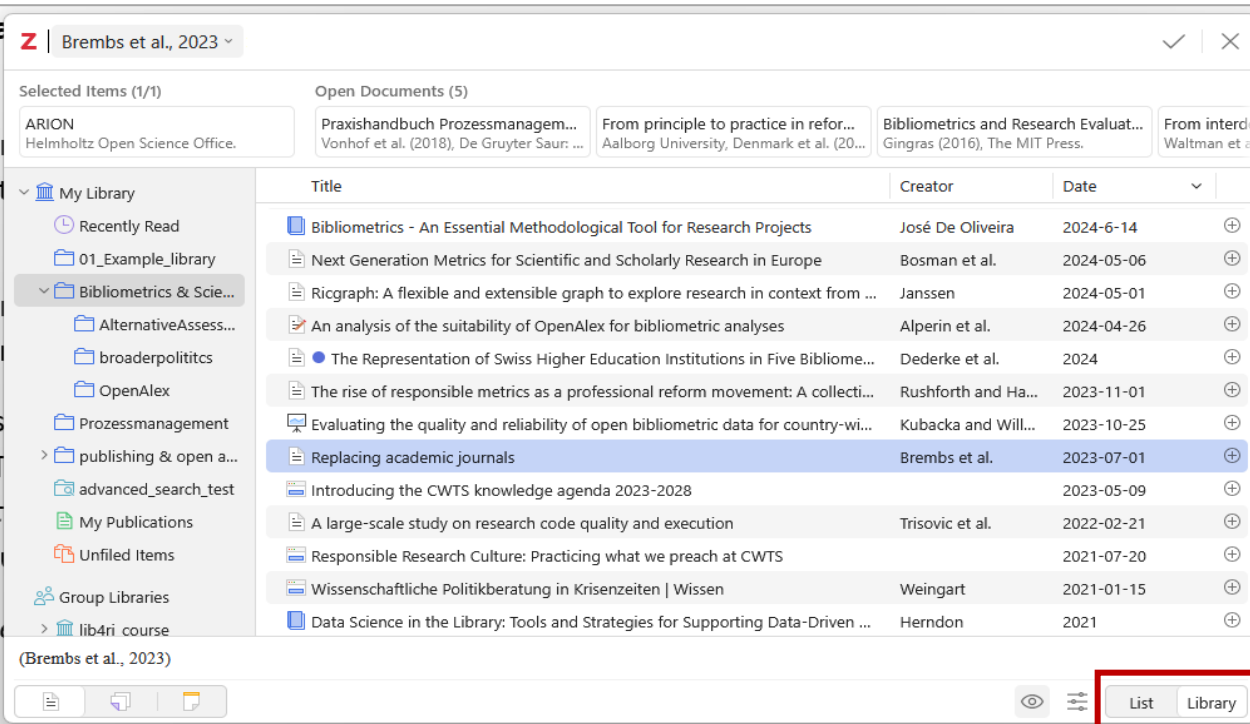
Far far away, behind
the blind texts. Separ
language ocean{Citat

A small river named
paradisematic count
Pointing has no cont

One day however a s
World of Grammar. T
Commas, wild Quest
her seven versalia, p

Source: blindtextgen

References



Selected Items (1/1)

ARION
Helmholtz Open Science Office.

Open Documents (5)

Praxishandbuch Prozessmanagem...
Vonhof et al. (2018), De Gruyter Saur: ...

From principle to practice in refor...
Aalborg University, Denmark et al. (20...

Bibliometrics and Research Evaluat...
Gingras (2016), The MIT Press.

From interdi...
Waltman et al.

Title	Creator	Date
Bibliometrics - An Essential Methodological Tool for Research Projects	José De Oliveira	2024-6-14
Next Generation Metrics for Scientific and Scholarly Research in Europe	Bosman et al.	2024-05-06
Ricgraph: A flexible and extensible graph to explore research in context from ...	Janssen	2024-05-01
An analysis of the suitability of OpenAlex for bibliometric analyses	Alperin et al.	2024-04-26
The Representation of Swiss Higher Education Institutions in Five Bibliome...	Dederke et al.	2024
The rise of responsible metrics as a professional reform movement: A collecti...	Rushforth and Ha...	2023-11-01
Evaluating the quality and reliability of open bibliometric data for country-wi...	Kubacka and Will...	2023-10-25
Replacing academic journals	Brembs et al.	2023-07-01
Introducing the CWTS knowledge agenda 2023-2028		2023-05-09
A large-scale study on research code quality and execution	Trisovic et al.	2022-02-21
Responsible Research Culture: Practicing what we preach at CWTS		2021-07-20
Wissenschaftliche Politikberatung in Krisenzeiten Wissen	Weingart	2021-01-15
Data Science in the Library: Tools and Strategies for Supporting Data-Driven ...	Herndon	2021

(Brembs et al., 2023)

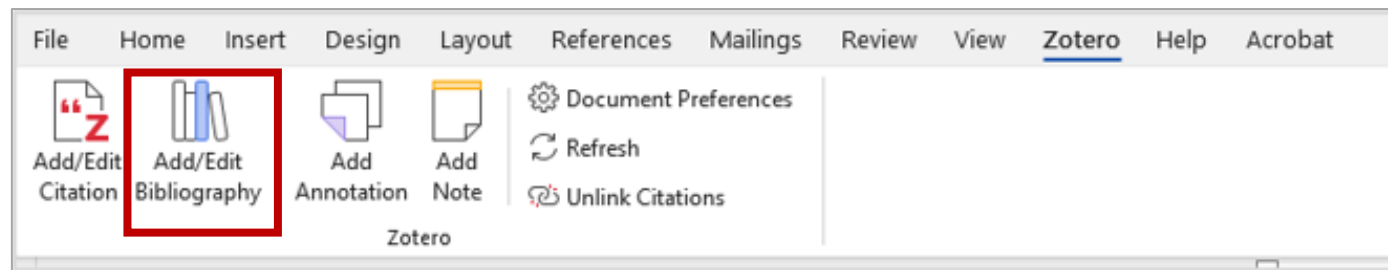
List Library

- Citations can always be edited through “Add/Edit citation”
- Use the dropdown arrow to add additional information for a given citation

Library for the Research Institutes within the ETH Domain: Eawag, Empa, PSI & WSL

Adding the list of references

- Can be added at any time
- Auto-updating for newly added and deleted citations



Commas, wild Question Marks and devious Semikoli, but the Little Blind Text didn't listen. She packed her seven versalia, put her initial into the belt and made herself on the way.

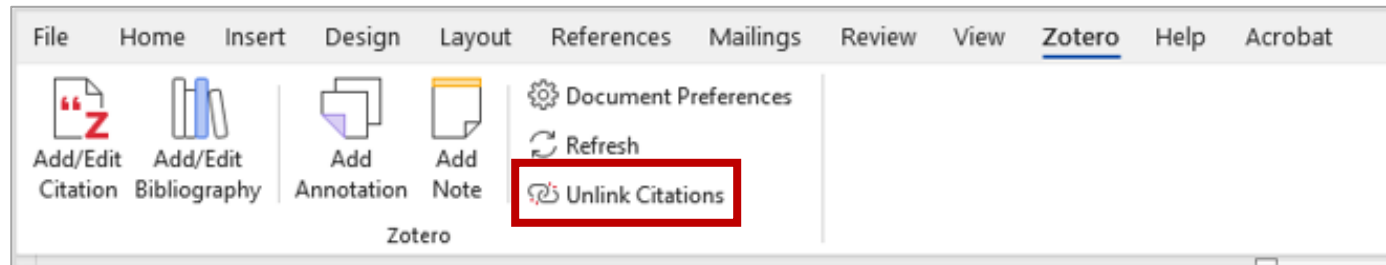
Source: blindtextgenerator.de

(Give your reference list a title, according to journal standards)

Oakley, B., Johnston, M., Chen, K., Jung, E., Sejnowski, T., 2025. The Memory Paradox: Why Our Brains Need Knowledge in an Age of AI. <https://doi.org/10.2139/ssrn.5250447>

Unlinking citations

- Unlink citations 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:
final_draft_reviewed_lastchanges_V7b.docx -> *publicationtitle_ready_for_submission.docx*



*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.

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:
 - Add another reference into a citation (1)
 - Change a citation from parenthetical to narrative: *(Author, Year) -> Author (Year)* (2)
 - Click the reference in the format window
 - Check «omit author» and write their name by hand
 - Add suffix pages (3)
- Unlink all citations in the end

Blind text: Functional placeholder

Far far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts (Waltman et al., 2026). Separated they live in Bookmarks grove right at the coast of the Semantics, a large language ocean.

A small river named Duden (Grossmann and Brembs, 2021; Moed, 2007) 1s by their place and sup 2s as Cytowic (2026) say. It is a paradisematic country, in which roasted parts of sentences fly into your mouth. Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life.

One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar (Balasubramanian, 2026, pp. 1–5). 3 Big Oxmox advised her not to do so, because there were thousands of bad Commas, wild Question Marks and devious Semikoli, but the Little Blind Text didn't listen. She packed her seven versalia, put her initial into the belt and made herself on the way.

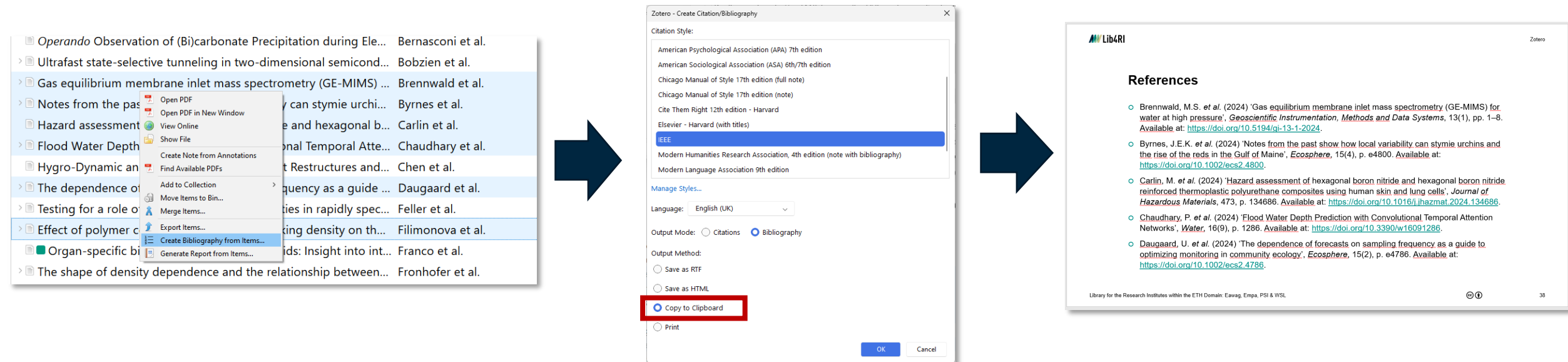
Source: blindtextgenerator.de

References

Balasubramanian, P.D.S., 2026. Publish or Pay: Investigating High APCs in Scopus and Web of Science Journals. *Int. J. Comput. Sci. Syst. IJCSS* 7, 57–71.
 Cytowic, R.E., 2026. *Your Stone Age Brain in the Screen Age: Coping with Digital Distraction and Sensory Overload*. MIT Press, Cambridge, MA, USA.
 Grossmann, A., Brembs, B., 2021. Current market rates for scholarly publishing services. <https://doi.org/10.12688/f1000research.27468.2>

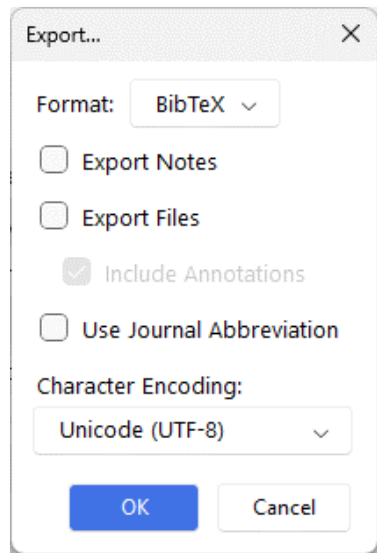
Beyond Word: PowerPoint

- Zotero does not work in PowerPoint (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!



Beyond Word: LaTeX

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



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.

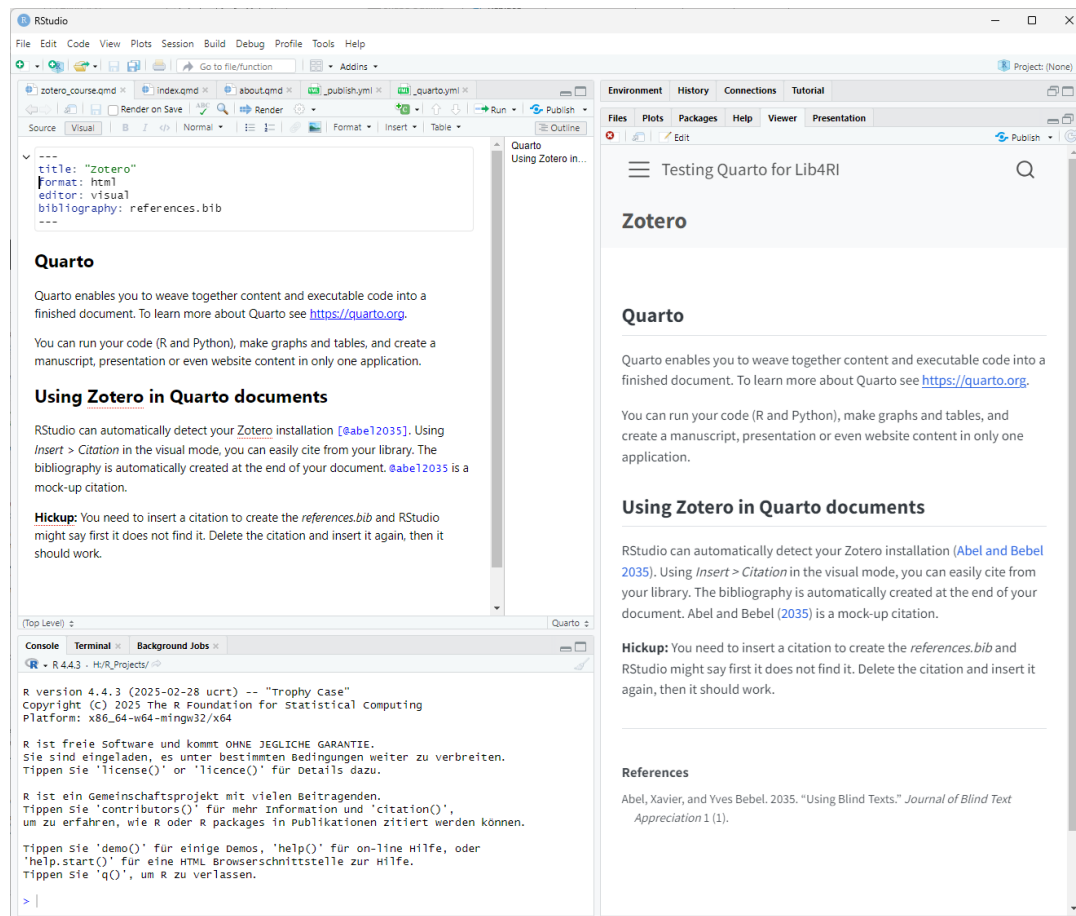
Remember to specify a bibliography style, as well as the filename of the .bib.

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 Word: Quarto



RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function

Adding

Project: (None)

Environment History Connections Tutorial

Files Plots Packages Help Viewer Presentation

Source Visual

Render on Save

Render

Run

Publish

Outline

Quarto Using Zotero in...

Testing Quarto for Lib4RI

Zotero

Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

You can run your code (R and Python), make graphs and tables, and create a manuscript, presentation or even website content in only one application.

Using Zotero in Quarto documents

RStudio can automatically detect your Zotero installation (@abe12035). Using `Insert > Citation` in the visual mode, you can easily cite from your library. The bibliography is automatically created at the end of your document. @abe12035 is a mock-up citation.

Hickup: You need to insert a citation to create the `references.bib` and RStudio might say first it does not find it. Delete the citation and insert it again, then it should work.

Console

R version 4.4.3 (2025-02-28 ucrt) -- "Trophy Case"

copyright (C) 2025 The R Foundation for Statistical Computing

Platform: x86_64-w64-mingw32/x64

R ist freie Software und kommt OHNE JEGLICHE GARANTIE.

Sie sind eingeladen, es unter bestimmten Bedingungen weiter zu verbreiten.

Tippen Sie 'license()' or 'licence()' für Details dazu.

R ist ein Gemeinschaftsprojekt mit vielen Beitragenden.

Tippen Sie 'contributors()' für mehr Information und 'citation()', um zu erfahren, wie R oder R packages in Publikationen zitiert werden können.

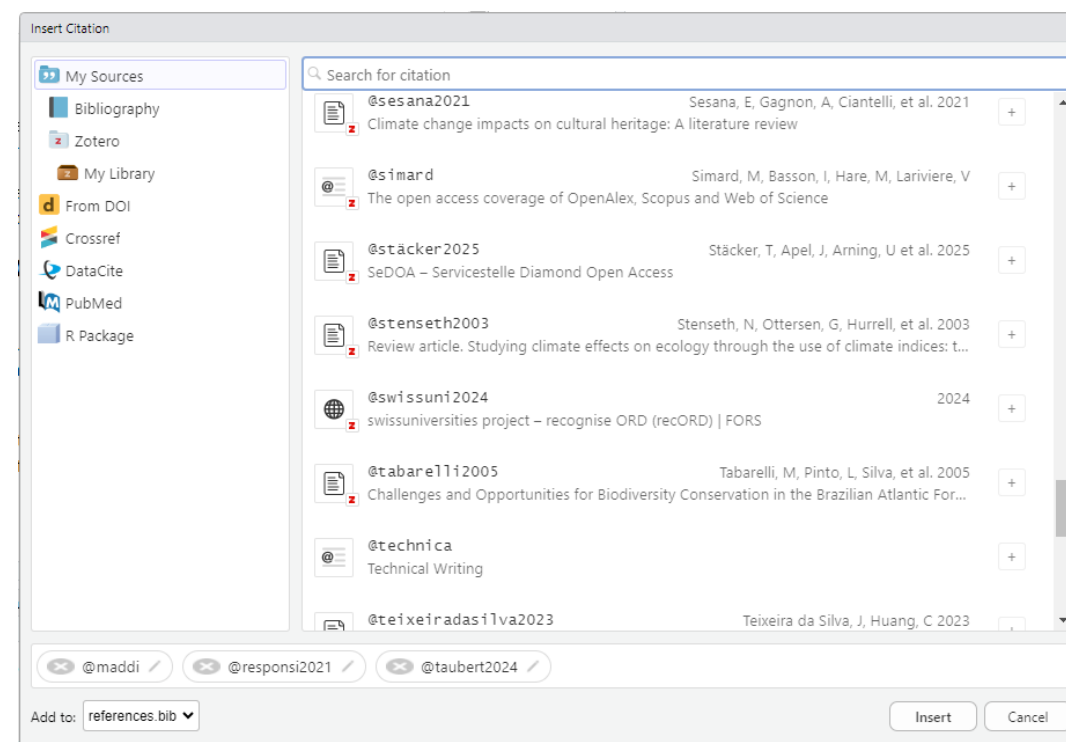
Tippen Sie 'demo()' für einige Demos, 'help()' für on-line Hilfe, oder 'help.start()' für eine HTML Browserschnittstelle zur Hilfe.

Tippen Sie 'q()' , um R zu verlassen.

> |

References

Abel, Xavier, and Yves Bebel. 2035. "Using Blind Texts." *Journal of Blind Text Appreciation* 1 (1).



Insert Citation

My Sources

Bibliography

Zotero

My Library

From DOI

Crossref

DataCite

PubMed

R Package

Search for citation

@sesana2021 Sesana, E, Gagnon, A, Ciantelli, et al. 2021 Climate change impacts on cultural heritage: A literature review

@simard Simard, M, Basson, I, Hare, M, Lariviere, V The open access coverage of OpenAlex, Scopus and Web of Science

@stacker2025 Stacker, T, Apel, J, Arning, U et al. 2025 SeDOA – Servicestelle Diamond Open Access

@stenseth2003 Stenseth, N, Ottersen, G, Hurrell, et al. 2003 Review article. Studying climate effects on ecology through the use of climate indices: t...

@swissuni2024 2024 swissuniversities project – recognise ORD (recORD) | FORS

@tabarelli2005 Tabarelli, M, Pinto, L, Silva, et al. 2005 Challenges and Opportunities for Biodiversity Conservation in the Brazilian Atlantic For...

@technica Technical Writing

@teixeiradasilva2023 Teixeira da Silva, J, Huang, C 2023

@maddi

@responsi2021

@taubert2024

Add to: references.bib

Insert

Cancel

Beyond a paper: When multiple bibliographies are needed

- Zotero cannot handle two bibliographies in one Word document
- **Solution I:** Write each chapter into a separate file
 - Unlink citations before joining the individual files or join PDF versions only
- **Solution II:** Use LaTeX with [according packages](#) ([training available](#) at Lib4RI)

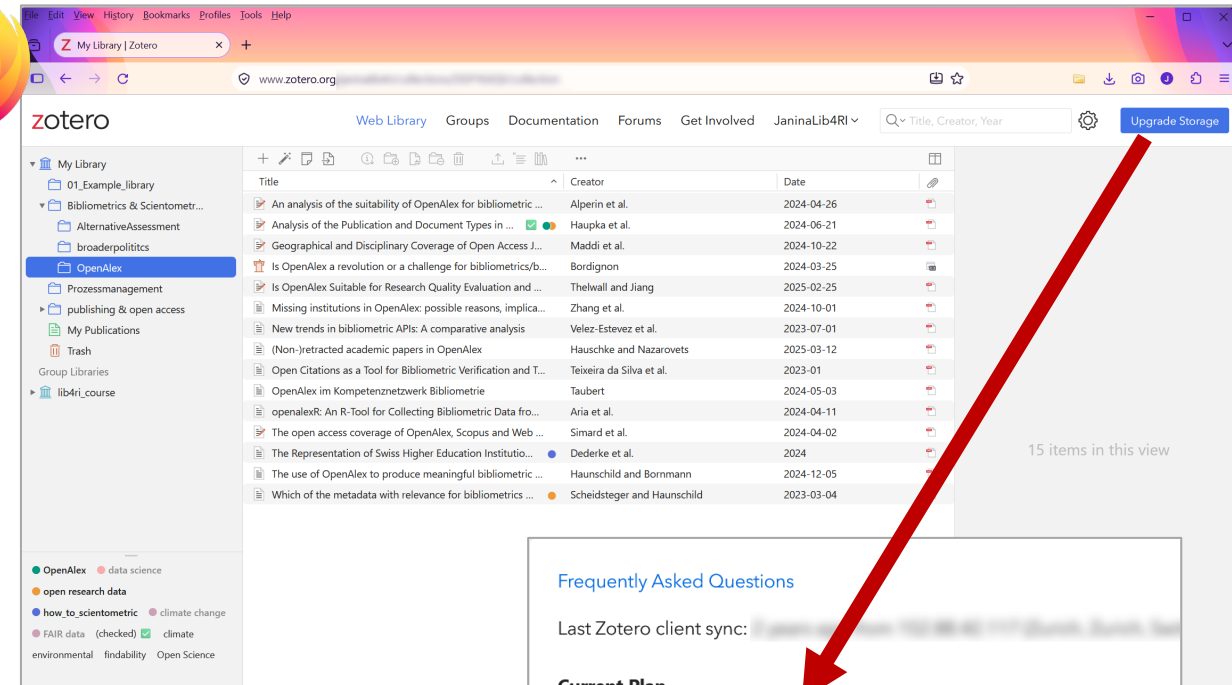
Step 5: Sync and collaborate

Notes on the cloud server

- Up to here, Zotero fully operates without registration
- To use the online or group library, registration with Zotero is required
- Cloud server is located in the USA and operated by Amazon
- **Your institutions data security regulations have to be followed!**
 - You may not upload or share sensitive data to the cloud
- **Full text may not be shared in public libraries!**
 - This counts as copyright infringement, also for many Open Access publications
- **If you do not wish to register, feel free to just follow the lecture without actions**

The web library

- Free account required to use the web library
- Online mirror of your local library
- File **sync on the Zotero server** is restricted to max. 300 MB with a free account
- Since 2026, accounts linked to institutional e-mail addresses from the 4RI automatically have unlimited cloud storage



Frequently Asked Questions

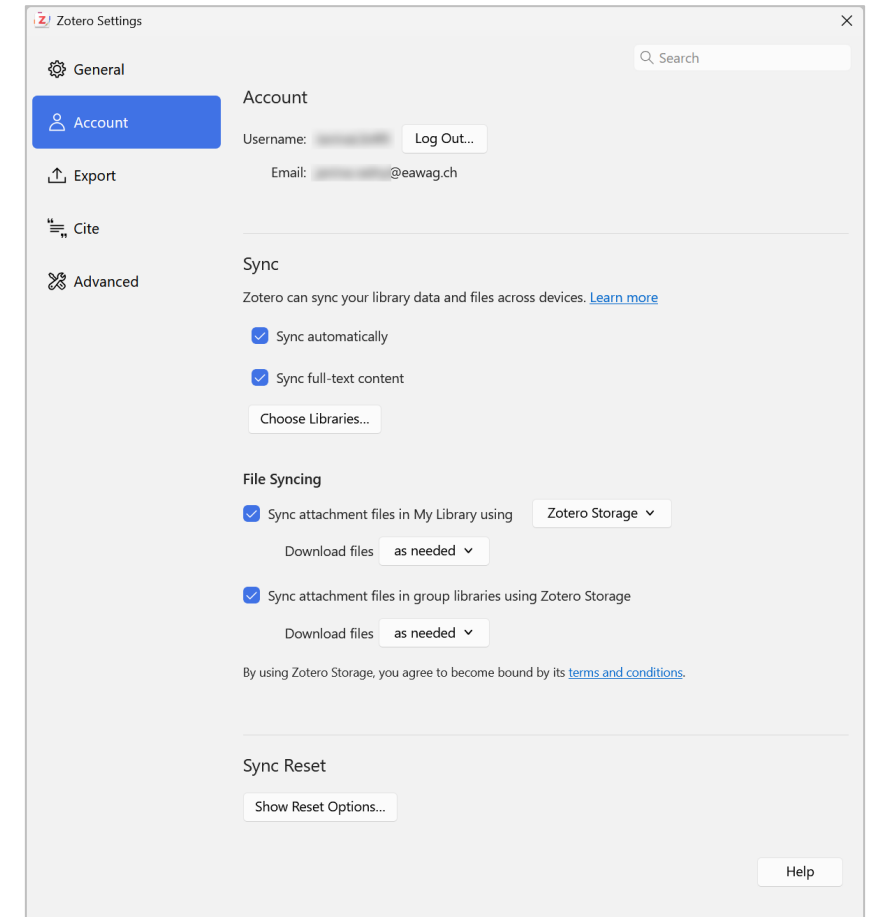
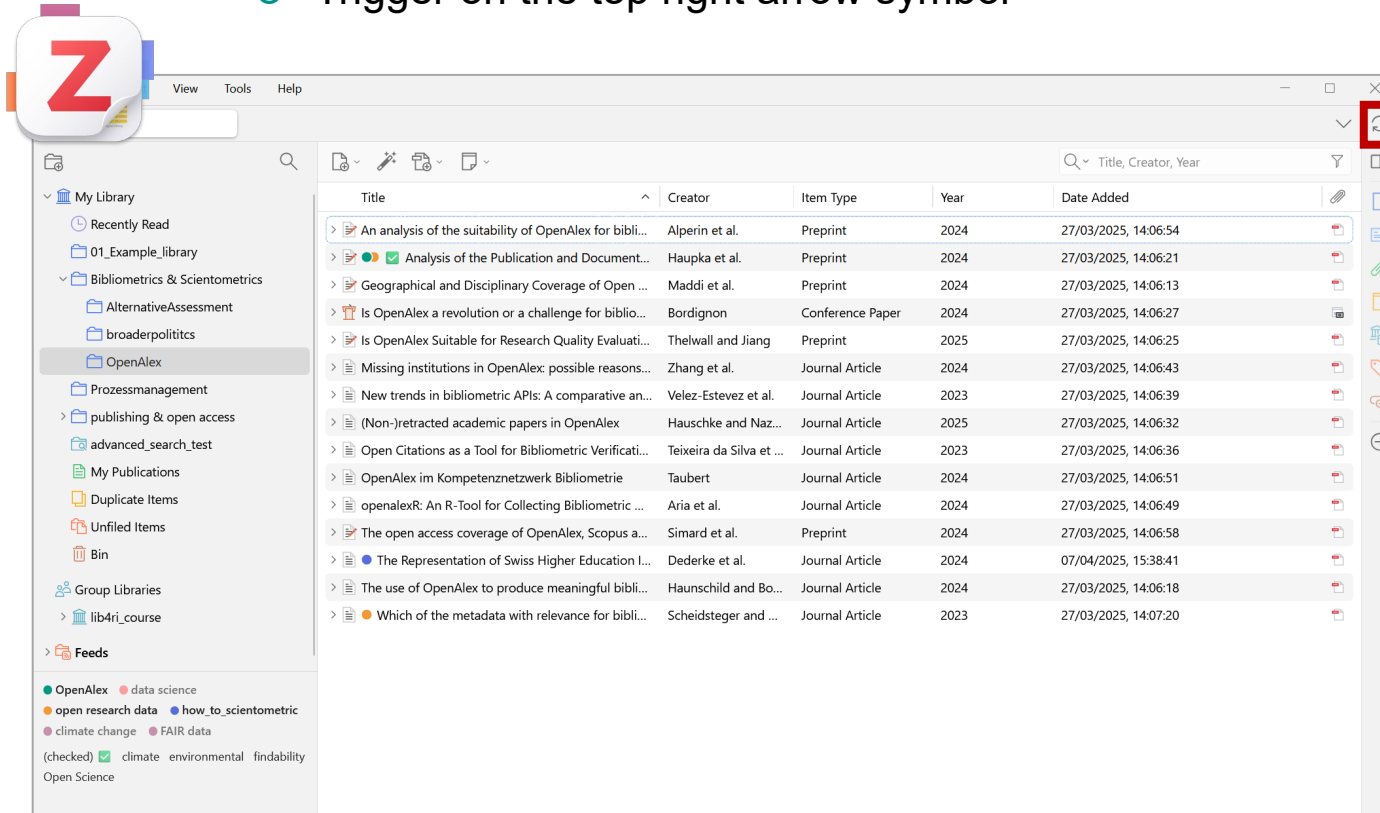
Last Zotero client sync: [redacted]

Current Plan	
Quota	Unlimited
Expiration	Never
Current Usage	My Library - 513.5 MB lib4ri_course - 0 MB Total - 514.4 MB
Institutional Storage	Lib4RI - Library for the Research Institutes within the ETH Domain: Eawag, Empa, PSI & WSL provides unlimited storage for [redacted]@eawag.ch

Subscriptions are billed annually.
By using Zotero, you agree to be bound by its [Terms of Service](#).

Syncing your library

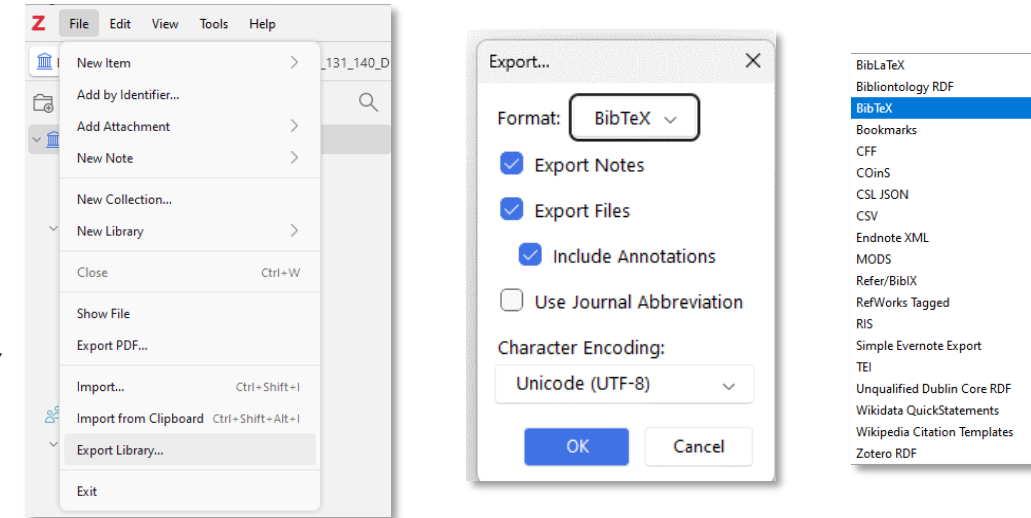
- Automatic by default
- Trigger on the top right arrow symbol



Working with colleagues

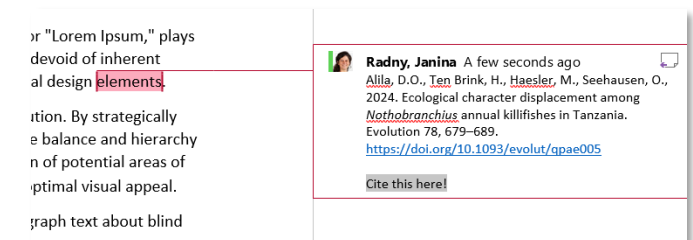
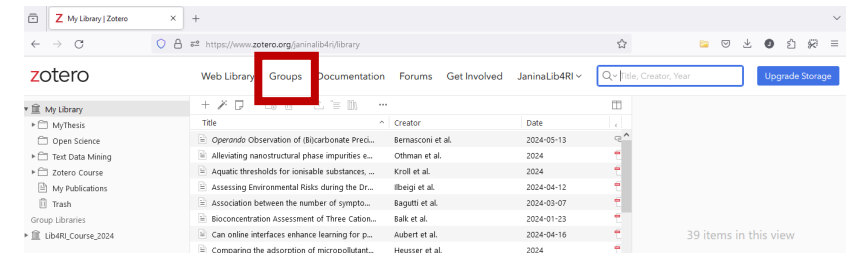
Sharing a library

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



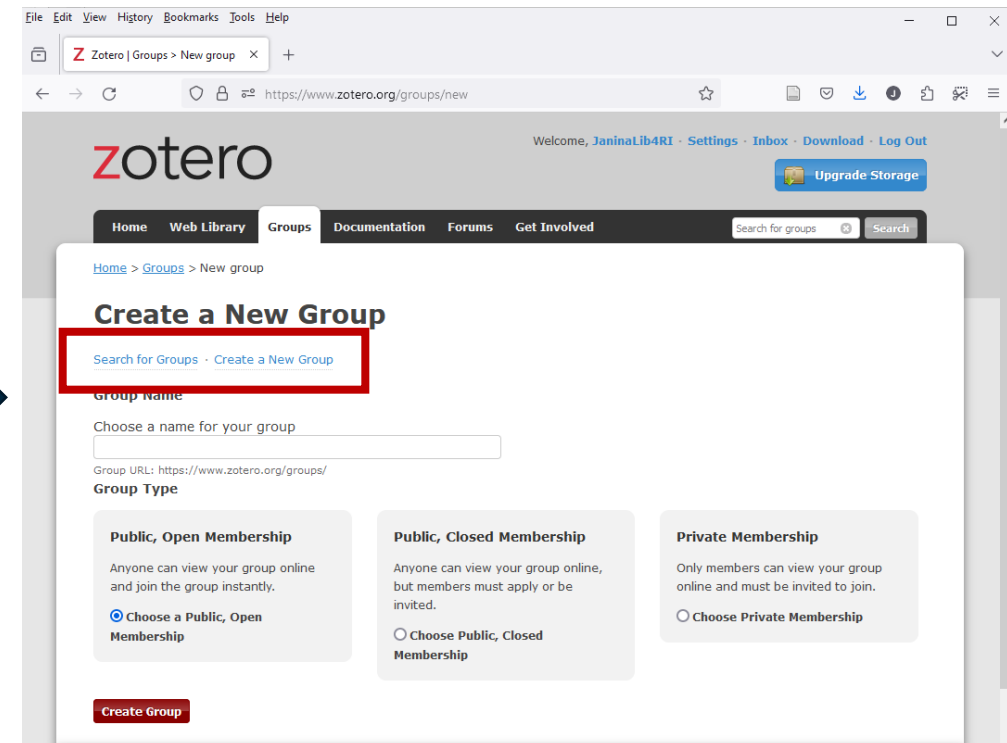
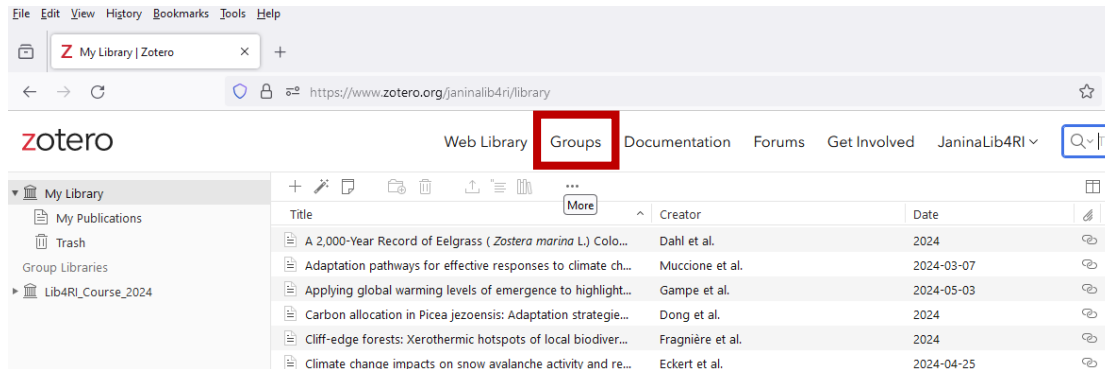
Working together in one file

- 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
- Note: Group names cannot contain the word “Zotero”



Hands-on: Group libraries

- Registration required at [Zotero.org](https://www.zotero.org)
- If you do not want to register, skip this hands-on
- Find and join the group *lib4ri_course*
- Drop one item into the group
- Import the items from the group library into your local collection *Zotero course*
- Retrieve PDFs for the new items
- **Experiment:** Add annotations to the standalone note in the group library

Going further

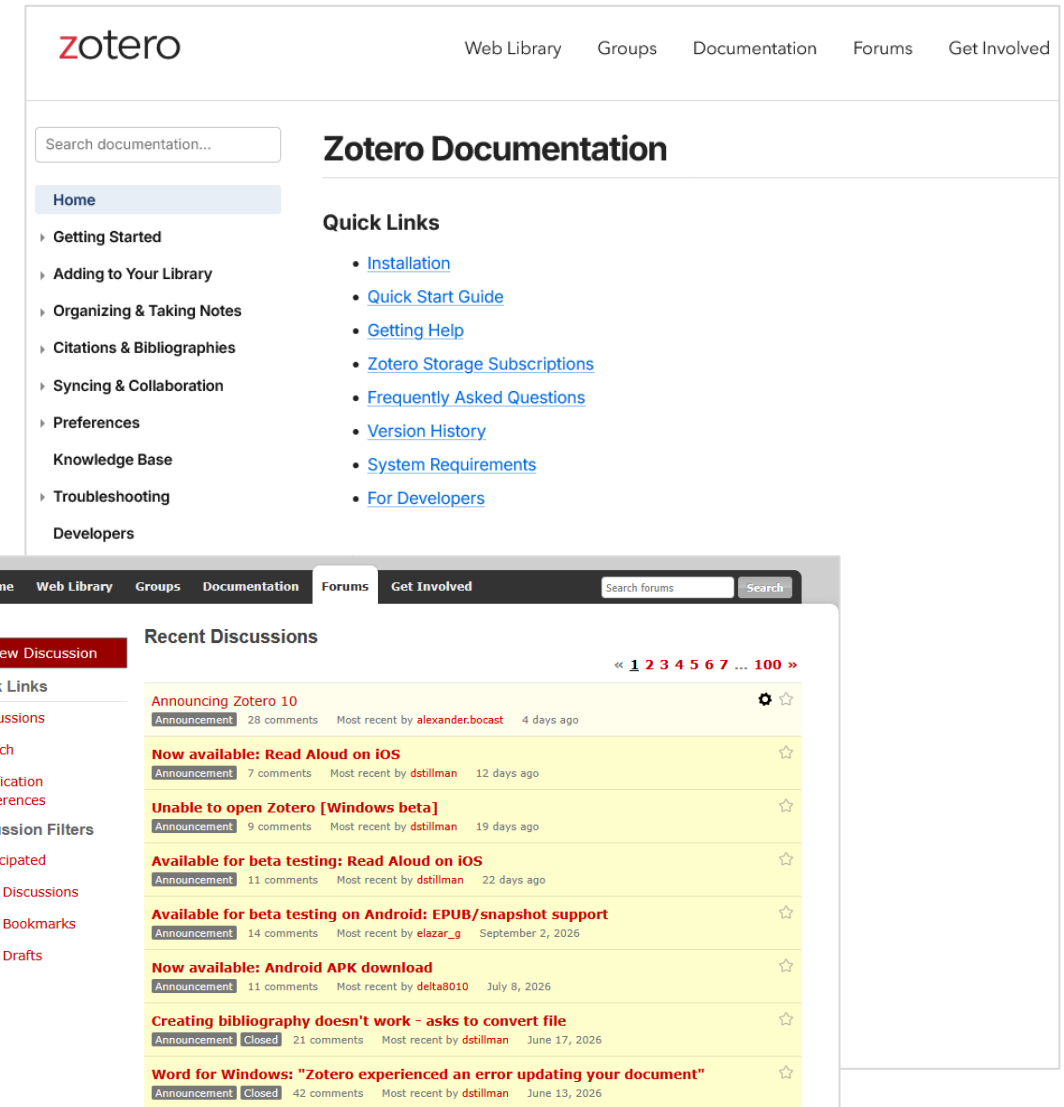
Going further from here

Documentation & support

- <https://www.zotero.org/support/>
- <https://forums.zotero.org/discussions>

Extending functionalities

- Tools > Plugins
- <https://www.zotero.org/support/plugins>
- Code repositories, e.g. GitHub, Codeberg...
 - Operate at your own risk!



Questions left?