

Introduction to Zotero



A top-down view of a desk with a laptop, pens, glasses, and a watch. The laptop is on the left, with its keyboard and trackpad visible. A silver pen lies horizontally in the center. To the right of the pen is a small metal mesh pen holder containing several pens. Further right are a pair of round-rimmed glasses and a black smartwatch with a mesh band. The background is a plain, light-colored surface.

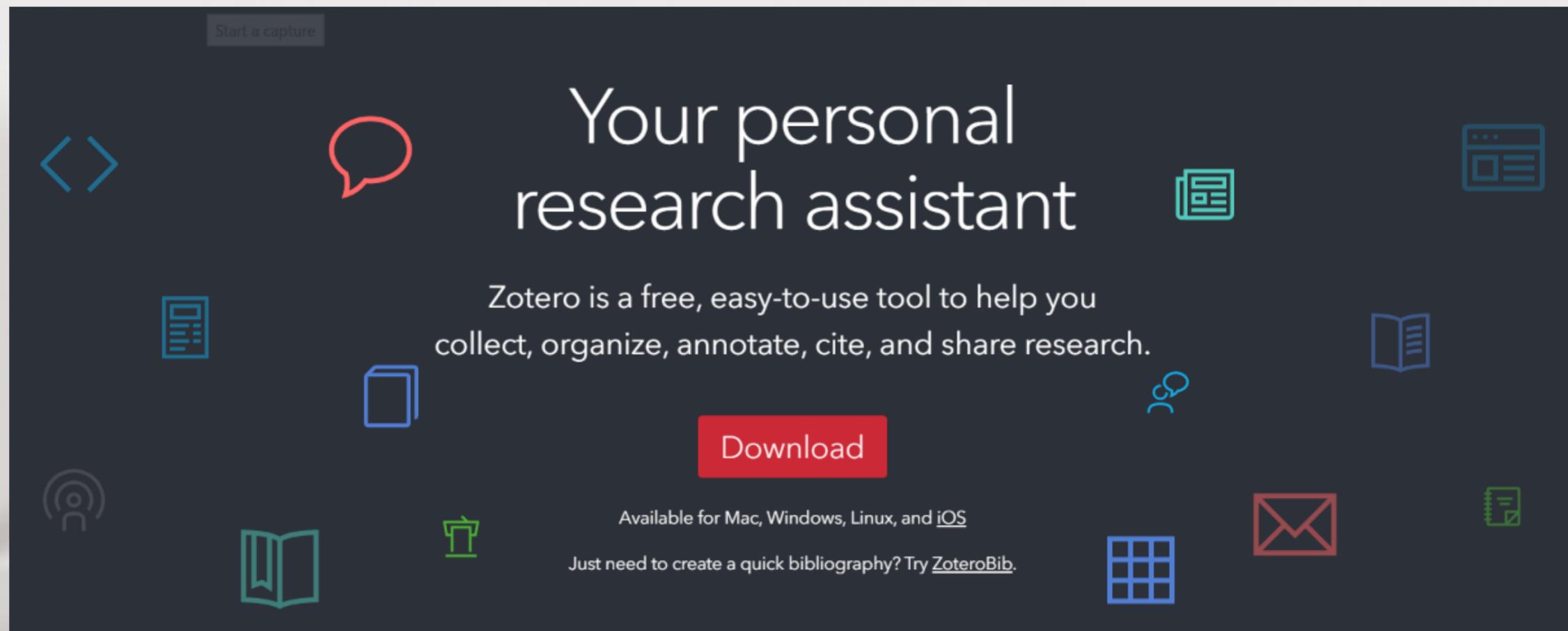
objectives.

- Install Zotero App and Create Online Account
- Use Browser Connector to Save References and PDFs
- Organize References into Collections
- Add Tags to References
- Highlight pdfs
- Create notes in a folder
- Create notes attached to a pdf
- Create Shared Collections
- Create In-text Citations and Bibliographies

1.

Getting Started

Go to <https://www.zotero.org/>



Click the Red Download Button

1.

Getting Started

Click the Blue Download Button



The image shows the download page for Zotero 6 on a Mac. At the top is the Zotero logo, a red 'Z' inside a grey hexagon. Below it, the text reads 'Zotero 6 for Mac' and 'Your personal research assistant'. A prominent blue button with the word 'Download' is centered. At the bottom, there are links for 'Other platforms' (Windows, Linux 32-bit, Linux 64-bit) and 'Installation Help'.



The image shows the download page for Zotero 6 on Windows. It features the same Zotero logo at the top. The main heading is 'Zotero 6 for Windows' with the subtitle 'Your personal research assistant'. A blue 'Download' button is centered. Below the button, there are links for 'Other platforms' (macOS, Linux 32-bit, Linux 64-bit) and 'Installation Help'.

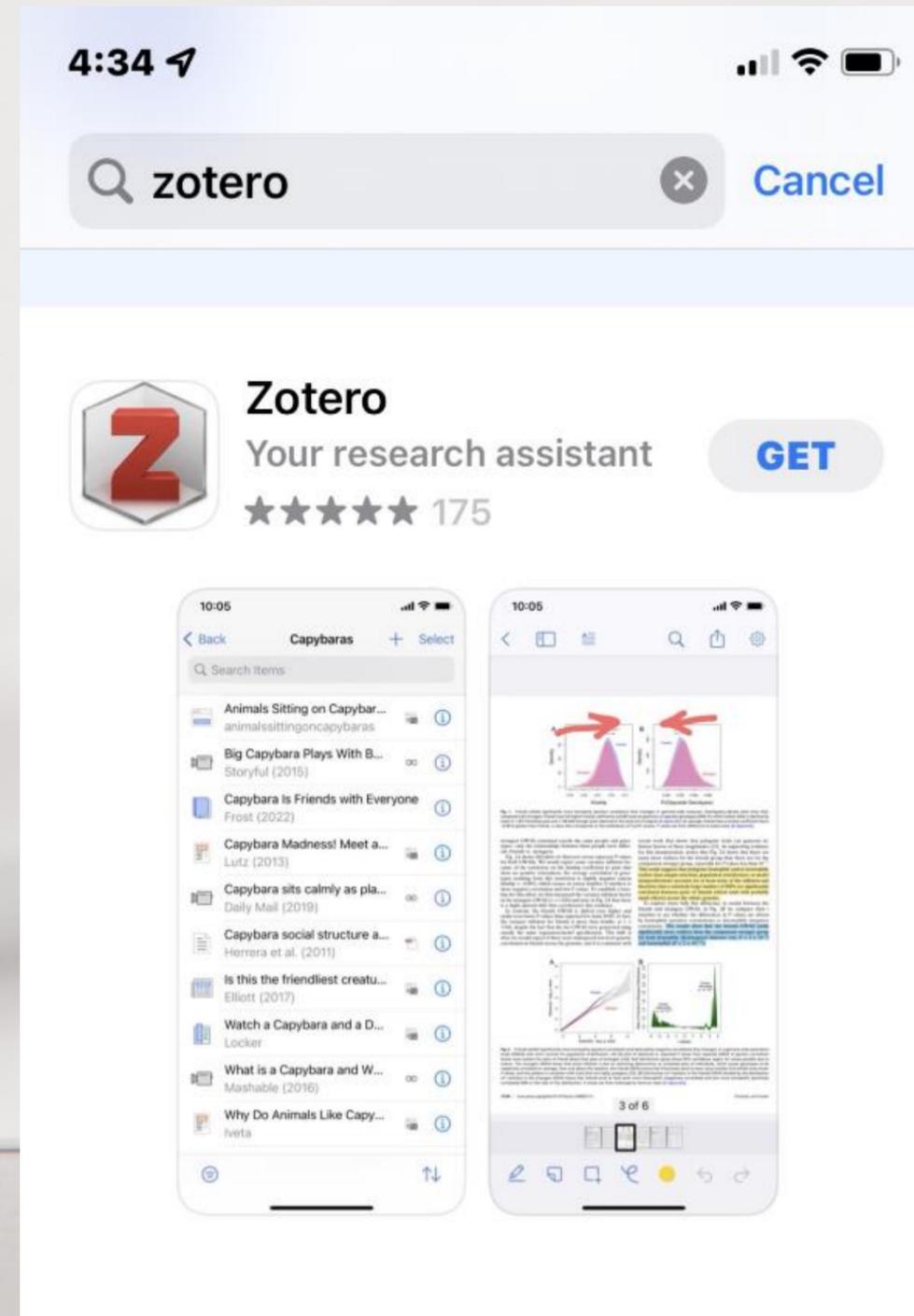


The image shows the download page for Zotero 6 on Linux. It features the same Zotero logo at the top. The main heading is 'Zotero 6 for Linux' with the subtitle 'Your personal research assistant'. A blue 'Download' button is centered. Below the button, there are links for 'Other platforms' (macOS, Linux 32-bit, Linux 64-bit) and 'Installation Help'.

1.

Getting Started

There is also a Zotero App for iPhones or iPads

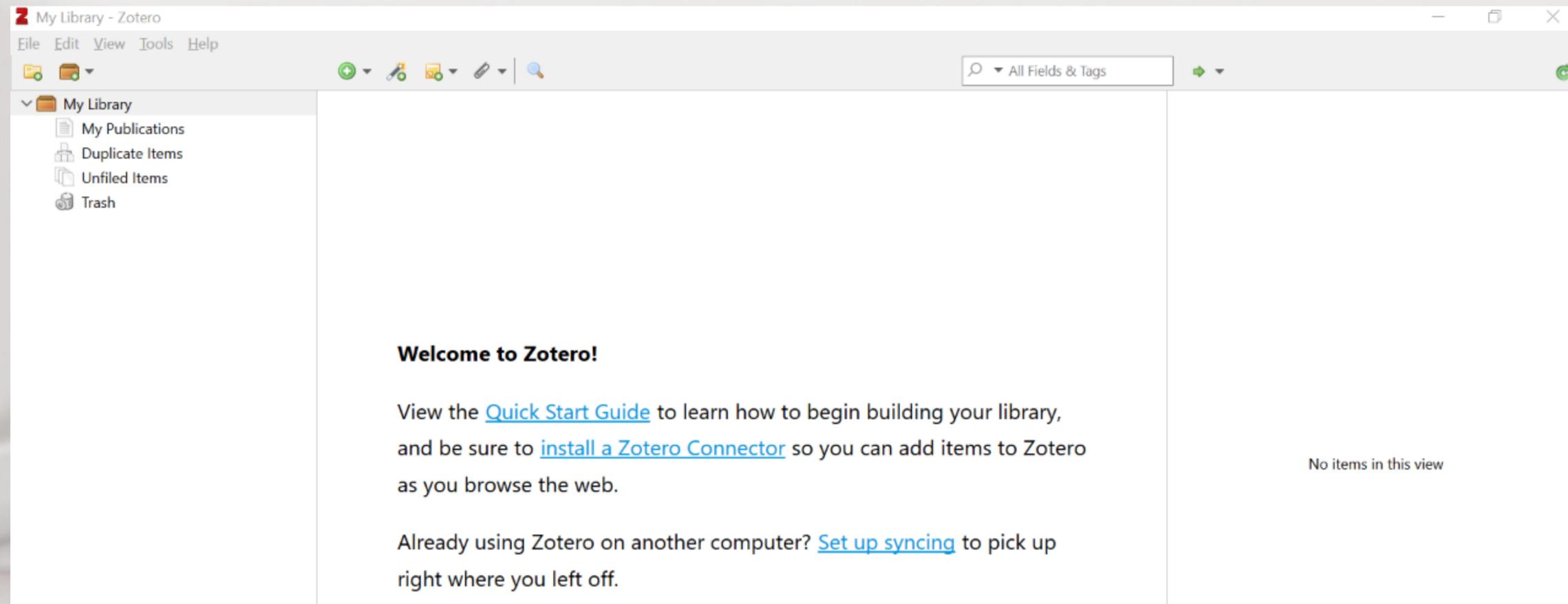


1.

Getting Started

Install the downloaded file

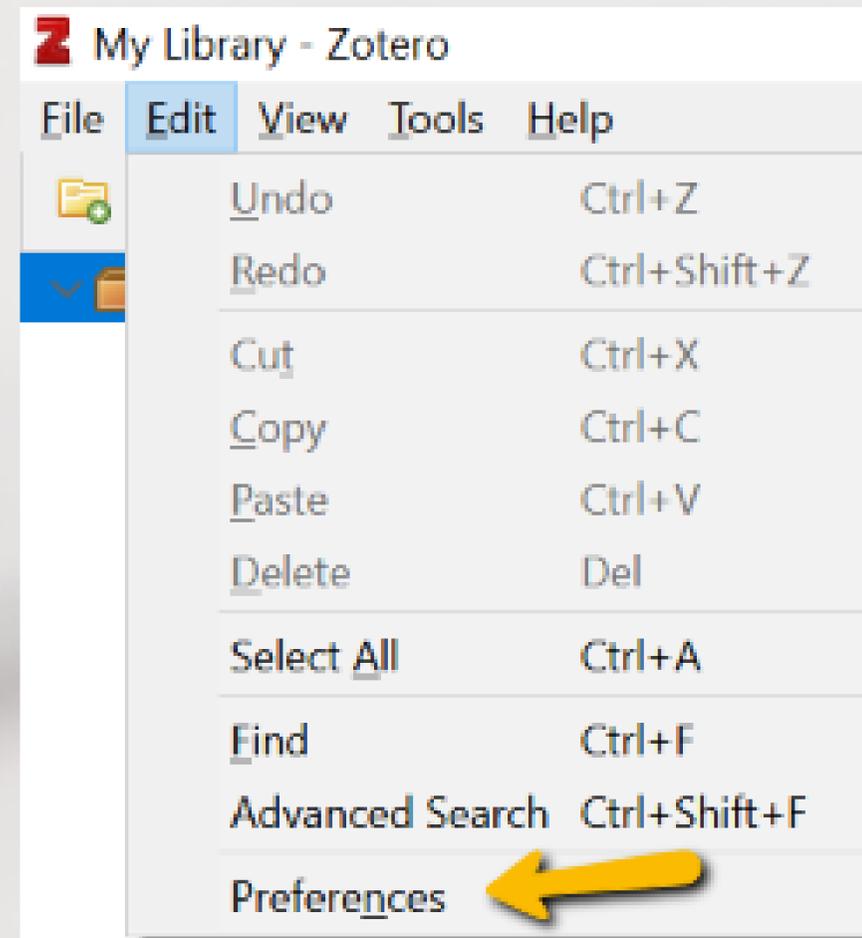
Choose a standard installation & launch Zotero



1.

Getting Started

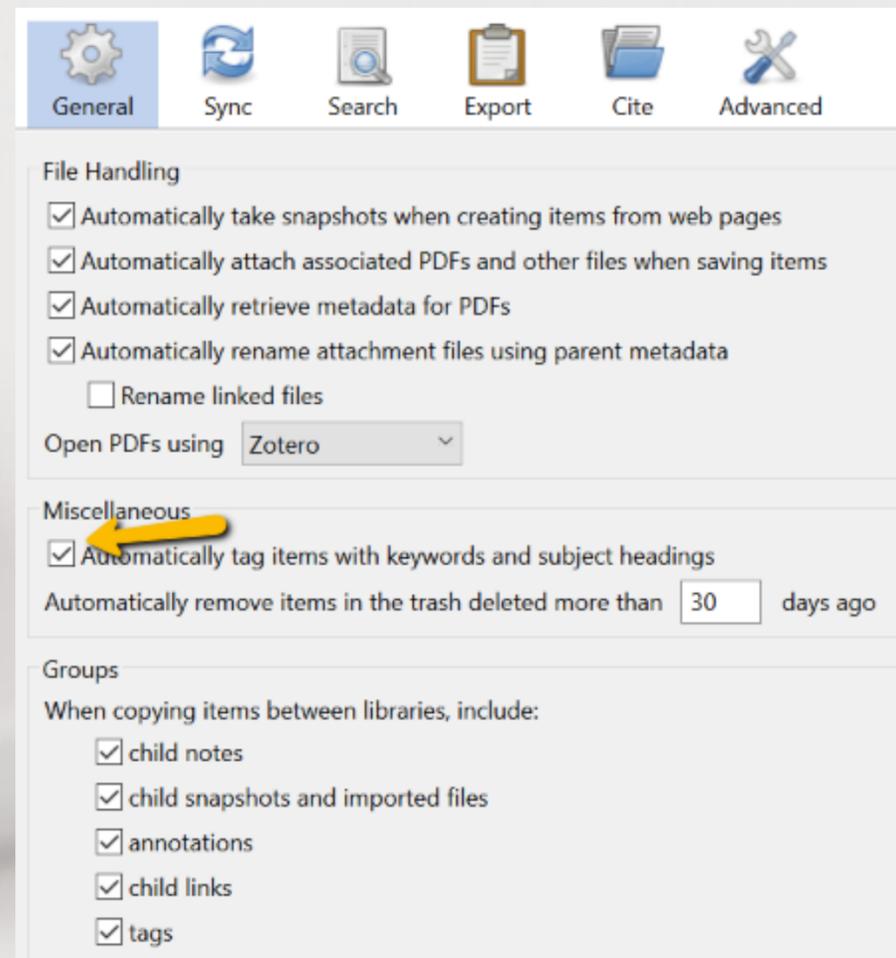
Open preferences



1.

Getting Started

Unselect "Automatically tag items with keywords and subject headings"



Click OK

1.

Getting Started

Go back to <https://www.zotero.org/download/>

Install the connector for your browser(s)



Zotero Connector
Save to Zotero from your browser

Install Edge Connector



Zotero Connector
Save to Zotero from your browser

Install Chrome Connector



Zotero Connector
Save to Zotero from your browser

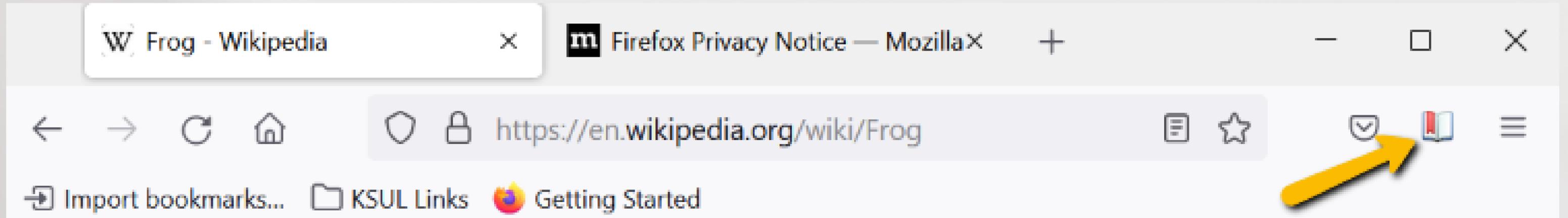
Install Firefox Connector

The Safari Connector is bundled with Zotero. Enable it from the extensions pane of Safari's preferences.

1.

Getting Started

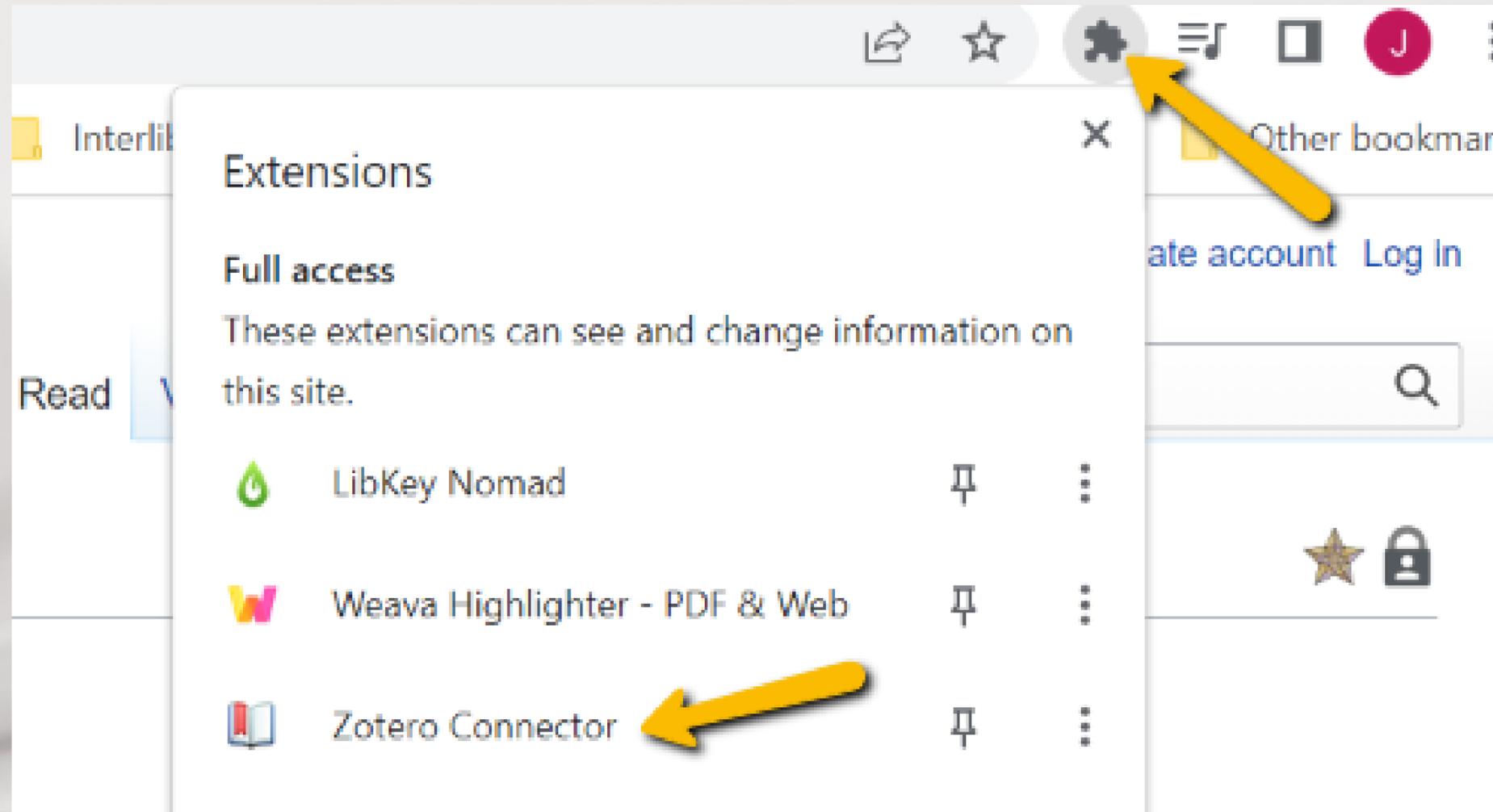
Where to find the Zotero Connector in Firefox



1.

Getting Started

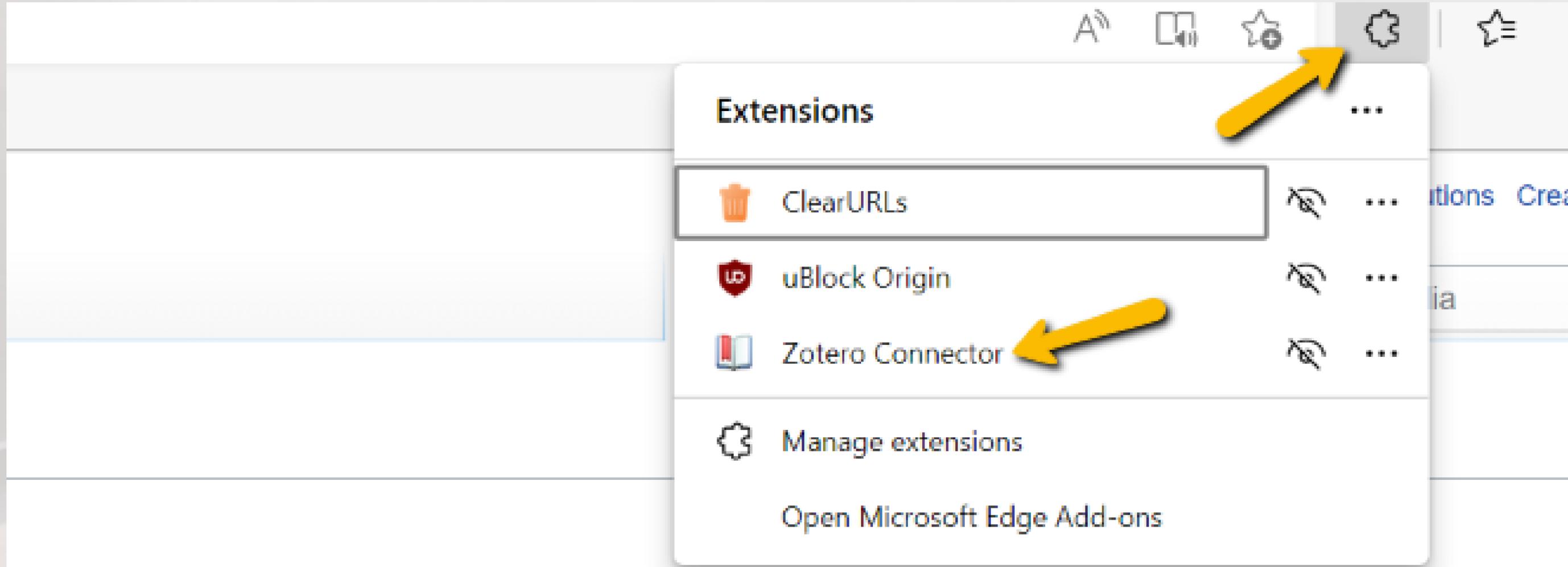
Where to find the Zotero Connector in Chrome



1.

Getting Started

Where to find the Zotero Connector in Edge



1.

Getting Started

Where to find the Zotero Connector in Safari

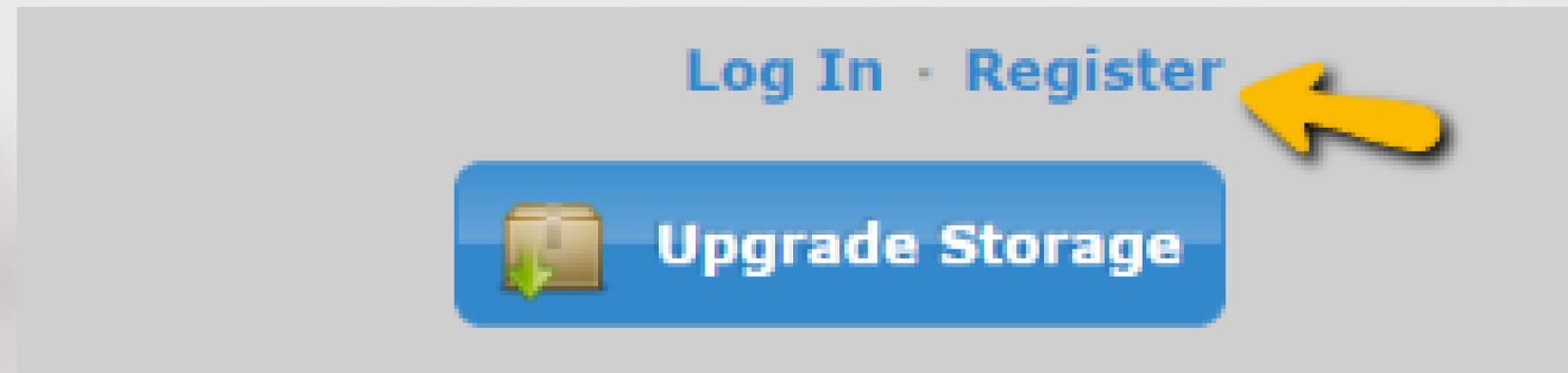


1.

Getting Started

Go to <https://www.zotero.org/download/>

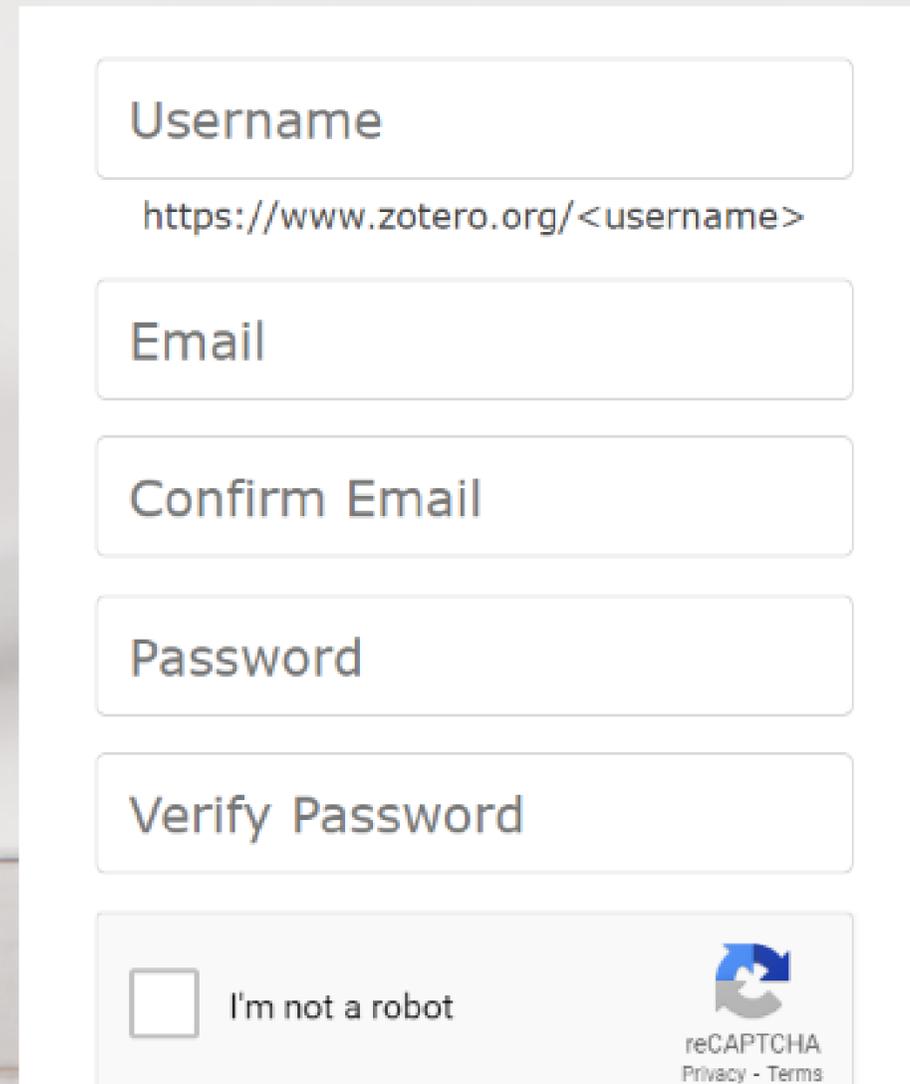
Create an online Zotero account to backup your files, access your Zotero library from any computer, and collaborate on creating collections



1.

Getting Started

Although Zotero works with any email address, for this class we ask that you use your @ksu.edu email address. You can have more than one account by using a different email address for each.



The image shows a registration form for Zotero. It consists of several input fields and a checkbox, all arranged vertically. The fields are: Username, Email, Confirm Email, Password, and Verify Password. Below the fields is a checkbox labeled "I'm not a robot" and a reCAPTCHA logo with links for "Privacy" and "Terms".

Username
<https://www.zotero.org/<username>>

Email

Confirm Email

Password

Verify Password

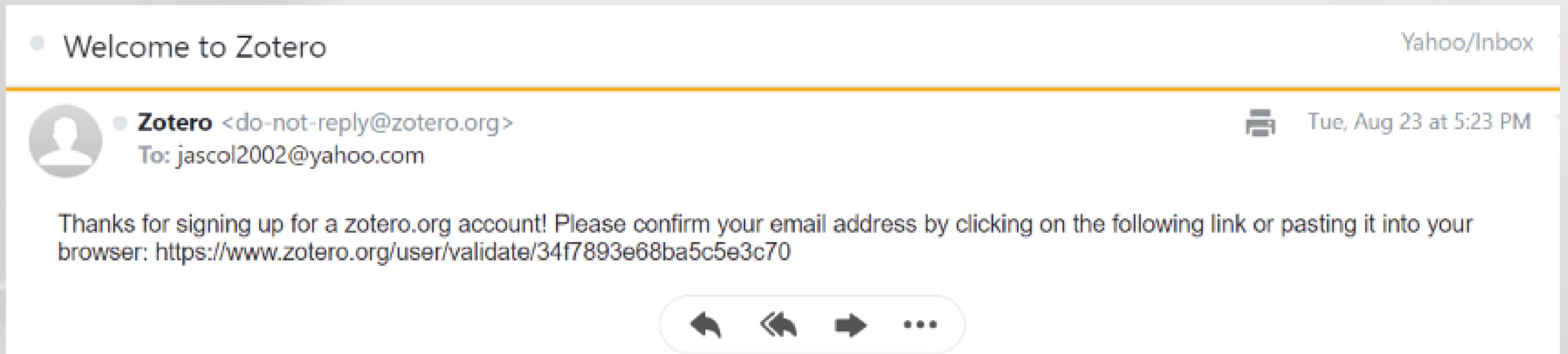
I'm not a robot

 reCAPTCHA
[Privacy](#) - [Terms](#)

1.

Getting Started

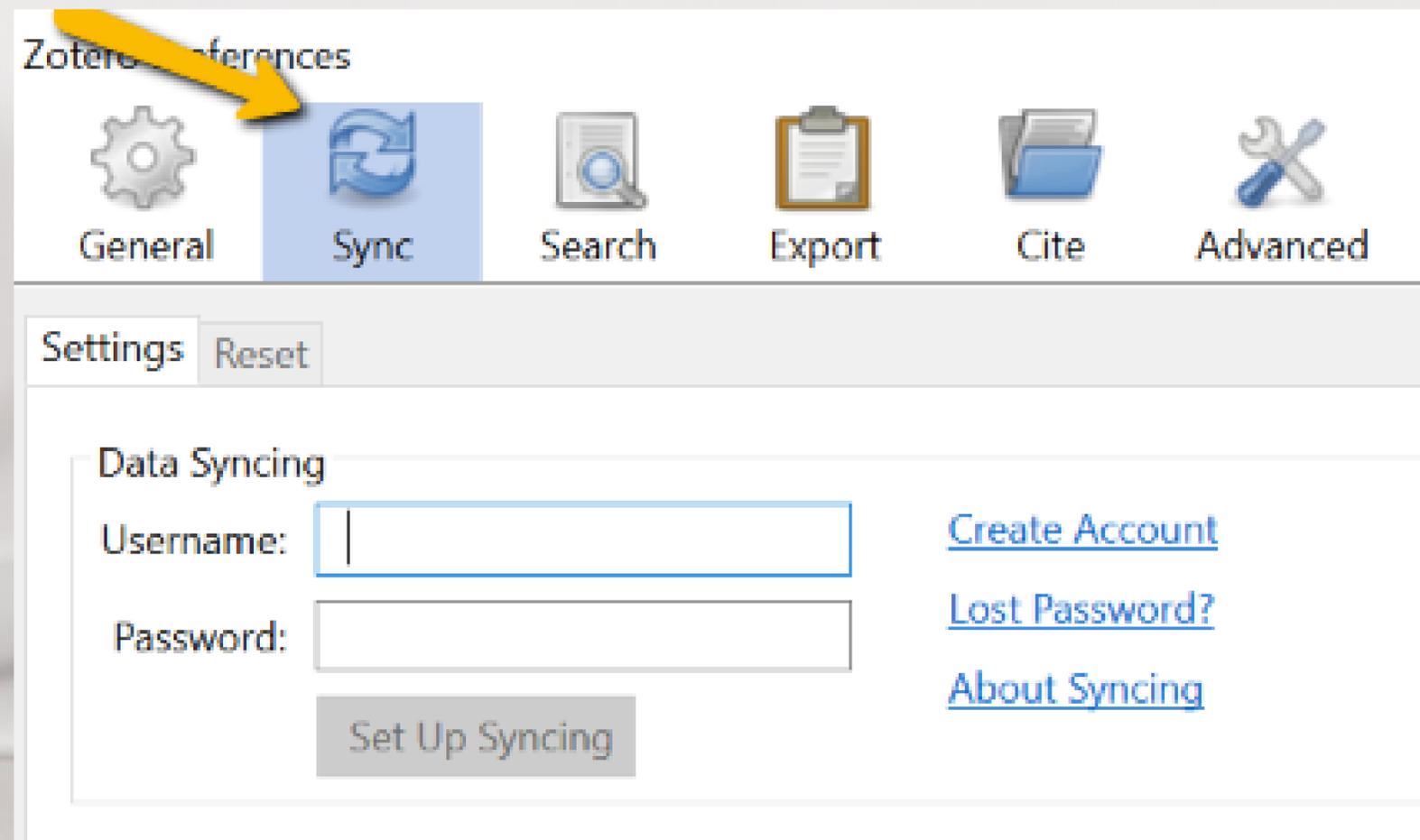
Open the email account you specified, open the Welcome to Zotero email, and follow the instructions to verify your account



1.

Getting Started

Then open your Zotero preferences, select Sync, and enter the account name and password you just created. Then click Set up Syncing.



The screenshot shows the Zotero preferences window with the 'Sync' tab selected. A yellow arrow points to the 'Sync' icon. The 'Data Syncing' section contains input fields for 'Username' and 'Password', a 'Set Up Syncing' button, and three links: 'Create Account', 'Lost Password?', and 'About Syncing'.

Zotero preferences

General Sync Search Export Cite Advanced

Settings Reset

Data Syncing

Username:

Password:

[Create Account](#)

[Lost Password?](#)

[About Syncing](#)

Set Up Syncing

2. Adding References

Example: Search Results Page from PubMed

The screenshot shows a web browser displaying the PubMed search results page. The URL in the address bar is `pubmed.ncbi.nlm.nih.gov/?term=over-prescribing+pain+race`. The page header includes the NIH logo and the text "National Library of Medicine National Center for Biotechnology Information". The search bar contains the query "over-prescribing pain race" and a "Search" button. Below the search bar, there are options for "Advanced", "Create alert", "Create RSS", and "User Guide". The results section shows "74 results" and a pagination control indicating "Page 1 of 8". The first result is titled "Race, pain, and opioids among patients with chronic pain in a safety-net health system." by Haq N, McMahan VM, Torres A, Santos GM, Knight K, Kushel M, Coffin PO. The second result is titled "The Influence of Patient Race and Activation on Pain Management in Advanced Lung Cancer: a Randomized Field Experiment." by Shields CG, Griggs JJ, Fiscella K, Elias CM, Christ SL, Colbert J, Henry SG, Hoh BG, Hunte HER, Marshall M, Mohile SG, Plumb S, Tejani MA, Venuti A, Epstein RM. The page also features a "RESULTS BY YEAR" bar chart and a "TEXT AVAILABILITY" section with checkboxes for "Abstract", "Free full text", and "Full text".

2. Adding References

Since there are several references on the page, the Zotero Connector icon shows a folder. PLEASE NOTE that this does not work in all databases. If it doesn't work in the database you are using, you will need to use the method shown on slide 26.

The screenshot shows a web browser window displaying a PubMed search results page. The search term is "over-prescribing pain race". The Zotero Connector extension menu is open, showing a folder icon next to the extension name, indicating it has detected references. A yellow arrow points to the Zotero Connector entry in the menu. The search results page shows 74 results, with the first result being "Race, pain, and opioids among patients with chronic pain in a safety-net health system." The second result is "The Influence of Patient Race and Activation on Pain Management in Advanced Lung Cancer: a Randomized Field Experiment."

icbi.nlm.nih.gov/?term=over-prescribing+pain+race

marks Library Reference Misc JED Campus Drive AI Disability Access

An official website of the United States government [Here's how you know](#)

NIH National Library of Medicine
National Center for Biotechnology Information

PubMed® over-prescribing pain race
Advanced Create alert Create RSS

Save Email Send to Sort by: Best match

Extensions

Full access
These extensions can see and change information on this site.

- Adobe Acrobat: PDF edit, conv...
- LibKey Nomad
- Zotero Connector
- Manage extensions

MY NCBI FILTERS

74 results Page 1 of 8

RESULTS BY YEAR

2004 2023

TEXT AVAILABILITY

- Abstract
- Free full text
- Full text

ARTICLE ATTRIBUTE

- Associated data

1 Cite Share

Race, pain, and opioids among patients with chronic pain in a safety-net health system.
Haq N, McMahan VM, Torres A, Santos GM, Knight K, Kushel M, Coffin PO.
Drug Alcohol Depend. 2021 May 1;222:108671. doi: 10.1016/j.drugalcdep.2021.108671.
Epub 2021 Mar 18.
PMID: 33810908

Download PDF View Complete Issue Free PMC article.

METHODS: To evaluate racial disparities in opioid prescribing and stewardship, we used baseline data collected from 2017 to 2019 for a longitudinal cohort of patients with chronic non-cancer pain and a history of illicit substance use. ...CONCLUSION: Lower pa ...

2 Cite Share

The Influence of Patient Race and Activation on Pain Management in Advanced Lung Cancer: a Randomized Field Experiment.
Shields CG, Griggs JJ, Fiscella K, Elias CM, Christ SL, Colbert J, Henry SG, Hoh BG, Hunte HER, Marshall M, Mohile SG, Plumb S, Tejani MA, Venuti A, Epstein RM.
J Gen Intern Med. 2019 Mar;34(3):435-442. doi: 10.1007/s11606-018-4785-z. Epub 2019

2. Adding References

Select the titles you want to save in Zotero and then click OK

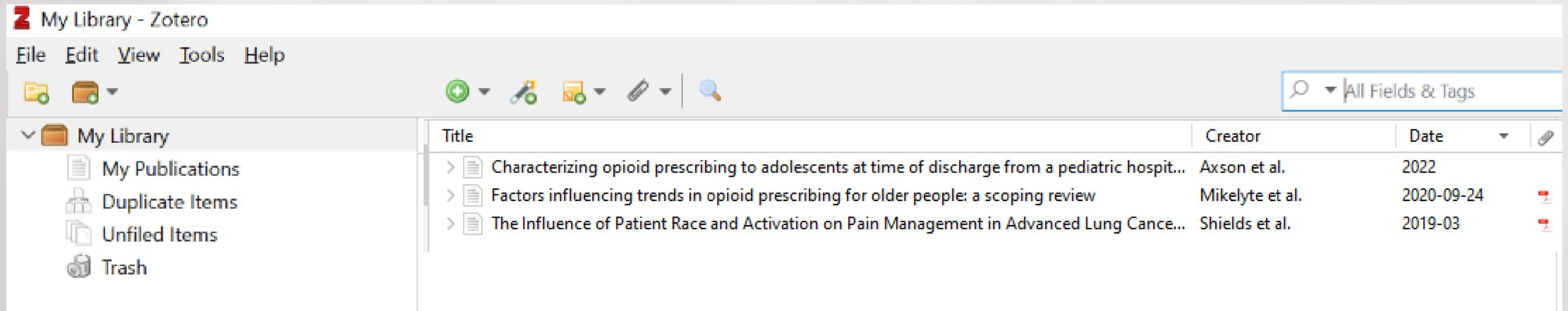
The screenshot shows the PubMed search results page for the query "over-prescribing pain race". The search bar at the top contains the query and a "Search" button. Below the search bar are links for "Advanced", "Create alert", "Create RSS", and "User Guide". The results are sorted by "Best match" and display options are visible. A Zotero Item Selector dialog box is overlaid on the page, prompting the user to "Select which items you'd like to add to your library:". The dialog lists ten search results with checkboxes for selection. The results are:

- Race, pain, and opioids among patients with chronic pain in a safety-net health system.
- The Influence of Patient Race and Activation on Pain Management in Advanced Lung Cancer: a Random
- Factors influencing trends in opioid prescribing for older people: a scoping review.
- Characterizing opioid prescribing to adolescents at time of discharge from a pediatric hospital over a five-
- Trends in opioid prescribing by race/ethnicity for patients seeking care in US emergency departments.
- Patterns of postoperative pain medication prescribing after invasive dental procedures.
- Is physician implicit bias associated with differences in care by patient race for metastatic cancer-related
- Opioid prescribing patterns for non-malignant chronic pain for rural versus non-rural US adults: a populati
- Analgesic prescribing trends in a national sample of older veterans with osteoarthritis: 2012-2017.
- Analgesic prescribing for patients who are discharged from an emergency department.

At the bottom of the dialog box are buttons for "Select All", "Deselect All", "Cancel", and "OK". The background page shows a "RESULTS BY YEAR" chart with a peak in 2004, and a "TEXT AVAILABILITY" section with checkboxes for "Abstract", "Free full text", and "Full text". The "ARTICLE ATTRIBUTE" section includes "Cite" and "Share" buttons, and a snippet of the first article's title and authors: "Shields CG, Griggs JJ, Fiscella K, Elias CM, Christ SL, Colbert J, Henry SG, Hoh BG, Hunte HER, Marshall M, Mohile SG, Plumb S, Tejani MA, Venuti A, Epstein RM. J Gen Intern Med. 2019 Mar;34(3):435-442. doi: 10.1007/s11606-018-4785-z. Epub 2019".

2. Adding References

When we view the Zotero App, we see that the references have been added to My Library



The screenshot shows the Zotero application interface. The title bar reads "My Library - Zotero". The menu bar includes "File", "Edit", "View", "Tools", and "Help". The toolbar contains icons for adding, editing, deleting, and searching. A search box on the right is set to "All Fields & Tags". The left sidebar shows a tree view with "My Library" expanded, containing "My Publications", "Duplicate Items", "Unfiled Items", and "Trash". The main pane displays a table of references:

Title	Creator	Date	
> Characterizing opioid prescribing to adolescents at time of discharge from a pediatric hospit...	Axson et al.	2022	
> Factors influencing trends in opioid prescribing for older people: a scoping review	Mikelyte et al.	2020-09-24	
> The Influence of Patient Race and Activation on Pain Management in Advanced Lung Cance...	Shields et al.	2019-03	

2. Adding References

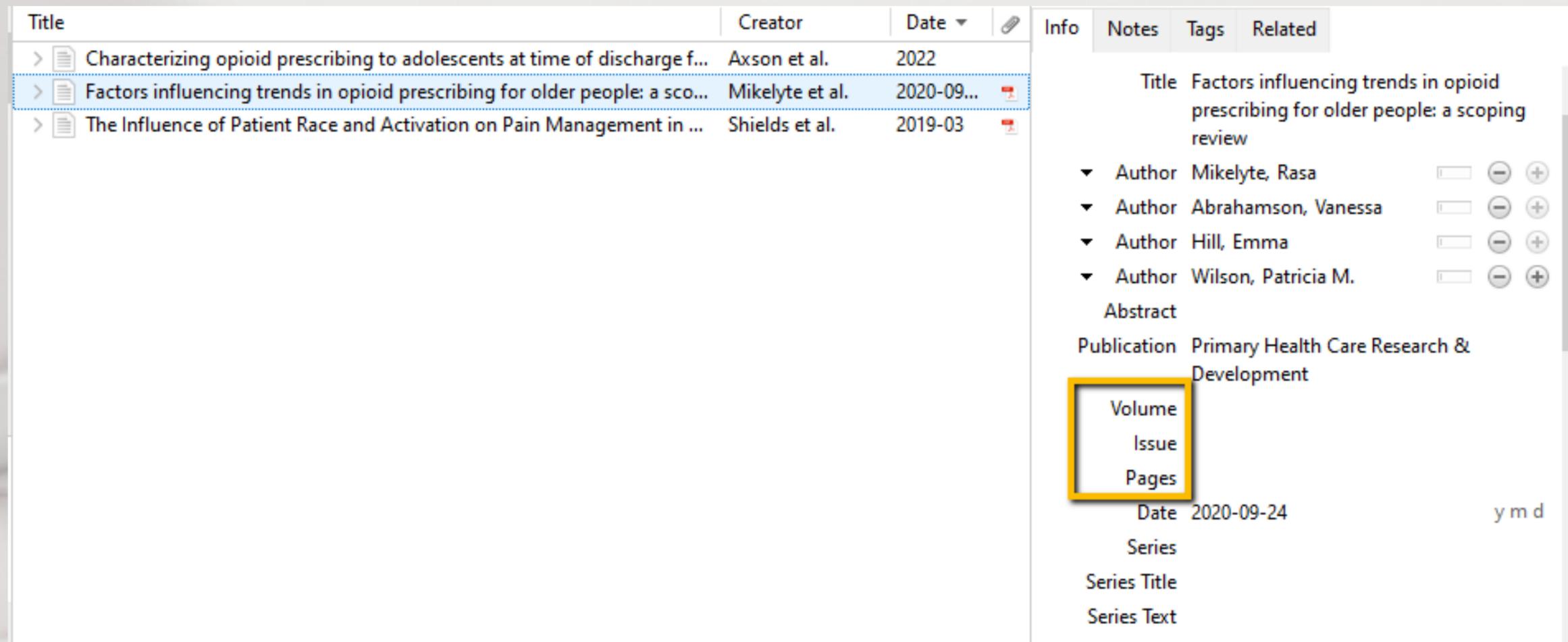
Clicking an entry reveals its metadata in the right panel

Title	Creator	Date	
>  Characterizing opioid prescribing to adolescents at time of discharge f...	Axson et al.	2022	
>  Factors influencing trends in opioid prescribing for older people: a sco...	Mikelyte et al.	2020-09...	
>  The Influence of Patient Race and Activation on Pain Management in ...	Shields et al.	2019-03	

Info	Notes	Tags	Related
Item Type	Journal Article		
Title	The Influence of Patient Race and Activation on Pain Management in Advanced Lung Cancer: a Randomized Field Experiment		
Author	Shields, Cleveland G.	<input type="text"/>	<input type="button" value="-"/> <input type="button" value="+"/>
Author	Griggs, Jennifer J.	<input type="text"/>	<input type="button" value="-"/> <input type="button" value="+"/>
Author	Fiscella, Kevin	<input type="text"/>	<input type="button" value="-"/> <input type="button" value="+"/>
Author	Elias, Cezanne M.	<input type="text"/>	<input type="button" value="-"/> <input type="button" value="+"/>
Author	Christ, Sharon L.	<input type="text"/>	<input type="button" value="-"/> <input type="button" value="+"/>
	10 more...		
Abstract	BACKGROUND: Pain management racial disparities exist, yet it is unclear whether disparities exist in pain management in advanced cancer. OBJECTIVE: To examine the effect of race on physicians' pain assessment and treatment in advanced lung cancer and		

2. Adding References

You can edit any of the metadata by clicking on it in the right panel. This can be important, because sometimes essential metadata (e.g., volume number, issue number, pages) is missing from the information the Zotero connector extracts from the source.



The screenshot displays the Zotero interface. On the left, a list of references is shown with columns for Title, Creator, and Date. The second reference, 'Factors influencing trends in opioid prescribing for older people: a scoping review' by Mikelyte et al. (2020-09-24), is selected. On the right, the 'Info' panel for this reference is open, showing fields for Title, Author (Mikelyte, Rasa; Abrahamson, Vanessa; Hill, Emma; Wilson, Patricia M.), Abstract, Publication (Primary Health Care Research & Development), and Date (2020-09-24). A yellow box highlights the 'Volume', 'Issue', and 'Pages' fields, which are currently empty, indicating that this metadata is missing from the extracted information.

Title	Creator	Date
> Characterizing opioid prescribing to adolescents at time of discharge f...	Axson et al.	2022
> Factors influencing trends in opioid prescribing for older people: a sco...	Mikelyte et al.	2020-09-24
> The Influence of Patient Race and Activation on Pain Management in ...	Shields et al.	2019-03

Info | Notes | Tags | Related

Title: Factors influencing trends in opioid prescribing for older people: a scoping review

Author: Mikelyte, Rasa
Author: Abrahamson, Vanessa
Author: Hill, Emma
Author: Wilson, Patricia M.

Abstract

Publication: Primary Health Care Research & Development

Volume
Issue
Pages

Date: 2020-09-24 (y m d)

Series
Series Title
Series Text

2.

Adding References

It is also important because article titles, authors, journal names and other metadata may have inappropriate capitalization.

For example, The 7th edition of the Publication Manual of the American Psychological Association requires that only the first word of a title and proper nouns are capitalized. Thus, you would need to edit the title below, if you were using that style.

The screenshot shows a reference list in a document editor. The title is "The Influence of Patient Race and Activation on Pain Management in Advanced Lung Cancer: a Randomized Field Experiment". Below the title are five authors, each with a dropdown arrow, a text input field, and expand/collapse buttons. The authors are Shields, Cleveland G.; Griggs, Jennifer J.; Fiscella, Kevin; Elias, Cezanne M.; and Christ, Sharon L. Below the authors is a link for "10 more...". The word "Abstract" is partially visible at the bottom.

Field	Value
Title	The Influence of Patient Race and Activation on Pain Management in Advanced Lung Cancer: a Randomized Field Experiment
Author	Shields, Cleveland G.
Author	Griggs, Jennifer J.
Author	Fiscella, Kevin
Author	Elias, Cezanne M.
Author	Christ, Sharon L.

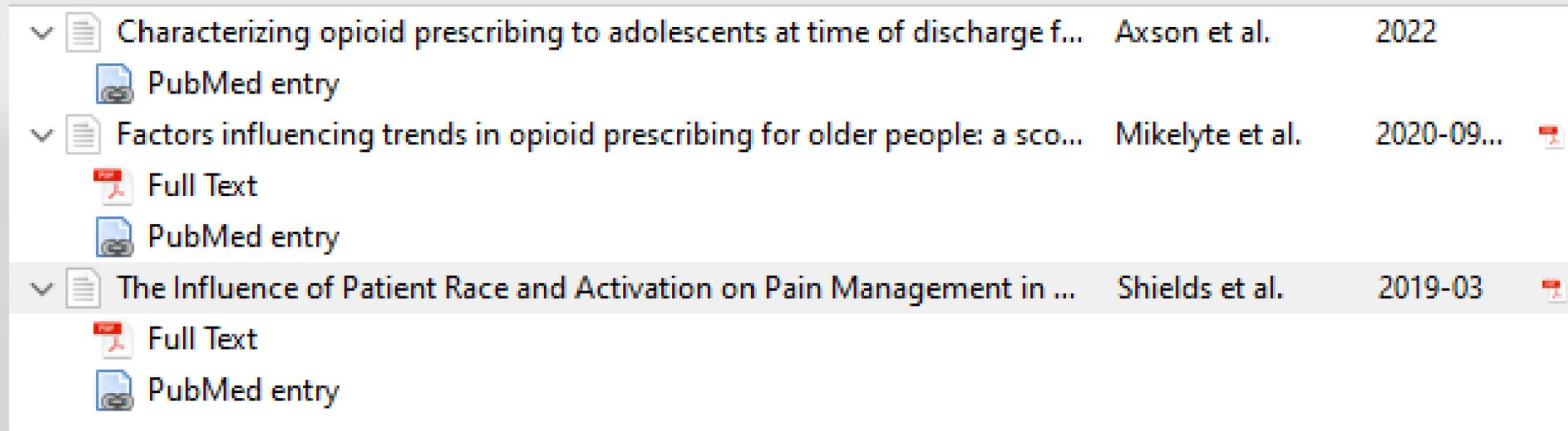
[10 more...](#)

Abstract

2.

Adding References

If an entry has a > symbol to the left, it means there are files attached. You can see them by clicking >



The screenshot shows a list of three references. Each reference is preceded by a downward-pointing chevron (>). The first reference, 'Characterizing opioid prescribing to adolescents at time of discharge f...', has a document icon and a 'PubMed entry' link. The second reference, 'Factors influencing trends in opioid prescribing for older people: a sco...', has a PDF icon, a 'Full Text' link, and a 'PubMed entry' link. The third reference, 'The Influence of Patient Race and Activation on Pain Management in ...', has a PDF icon, a 'Full Text' link, and a 'PubMed entry' link.

>	Characterizing opioid prescribing to adolescents at time of discharge f...	Axson et al.	2022	
	PubMed entry			
>	Factors influencing trends in opioid prescribing for older people: a sco...	Mikelyte et al.	2020-09...	
	Full Text			
	PubMed entry			
>	The Influence of Patient Race and Activation on Pain Management in ...	Shields et al.	2019-03	
	Full Text			
	PubMed entry			

Notice that the connector attached PDFs for articles 2 and 3, but not 1. The other icon provides information about where the connector found the metadata

2. Adding References

You can also add individual items from a database by opening the full view (by clicking or double-clicking the title). Notice that the connector icon shows the type of reference. Click that icon.

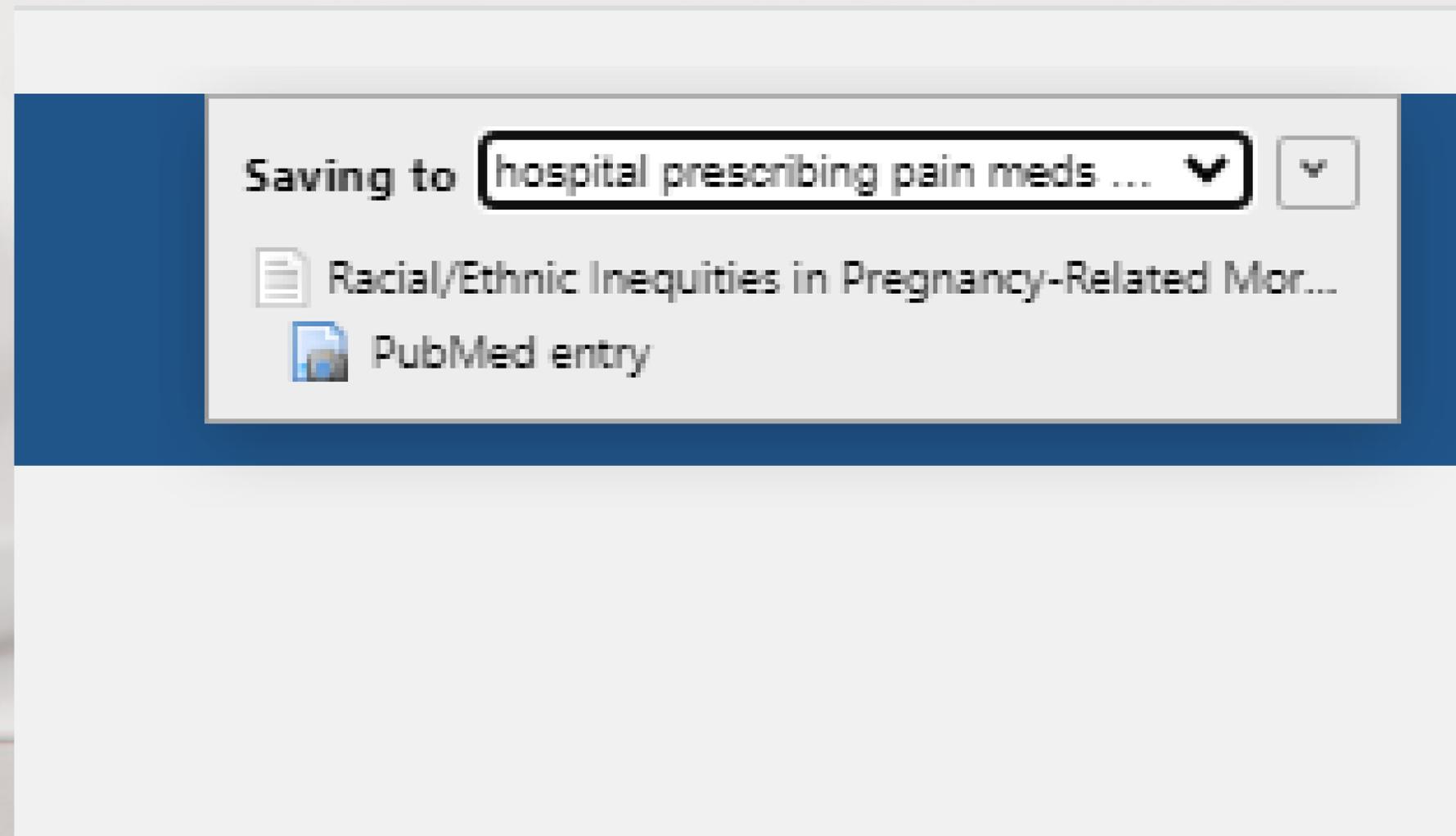
The screenshot shows a web browser window with the following elements:

- Browser Tabs:** Bookmarks, Library, Reference, Misc, JED Campus, Drive, AI, Disability Access.
- Page Header:** NIH National Library of Medicine, National Center for Biotechnology Information.
- Search Bar:** PubMed logo, search input containing "hospitals pain medicine race bias", and an "Advanced" link.
- Search Results:** "Search results" label, "Save", "Email", and "Share" buttons.
- Article Preview:**
 - Review > Obstet Gynecol Clin North Am. 2021 Mar;48(1):31-51. doi: 10.1016/j.ogc.2020.11.005.
 - Title:** Racial/Ethnic Inequities in Pregnancy-Related Morbidity and Mortality
 - Authors:** Rebecca D Minehart¹, Allison S Bryant², Jaleesa Jackson³, Jaime L Daly⁴
 - Affiliations:** Affiliations + expand
 - PMID:** 33573789 **DOI:** 10.1016/j.ogc.2020.11.005
 - Access Options:** A button with a green leaf icon and the text "Access Options".
 - Abstract:** A section labeled "Abstract" is visible at the bottom.
- Right Sidebar:**
 - FULL TEXT LINKS:** ELSEVIER FULL-TEXT ARTICLE button.
 - ACTIONS:** "Cite" and "Collections" buttons.
 - SHARE:** Social media icons for Twitter, Facebook, and LinkedIn.
- Extensions Menu:** A dropdown menu is open on the right side, showing a list of installed extensions. The "Zotero Connector" extension is highlighted with a yellow arrow. Other visible extensions include Adobe Acrobat: PDF edit, conv..., LibKey Nomad, and Manage extensions.

2.

Adding References

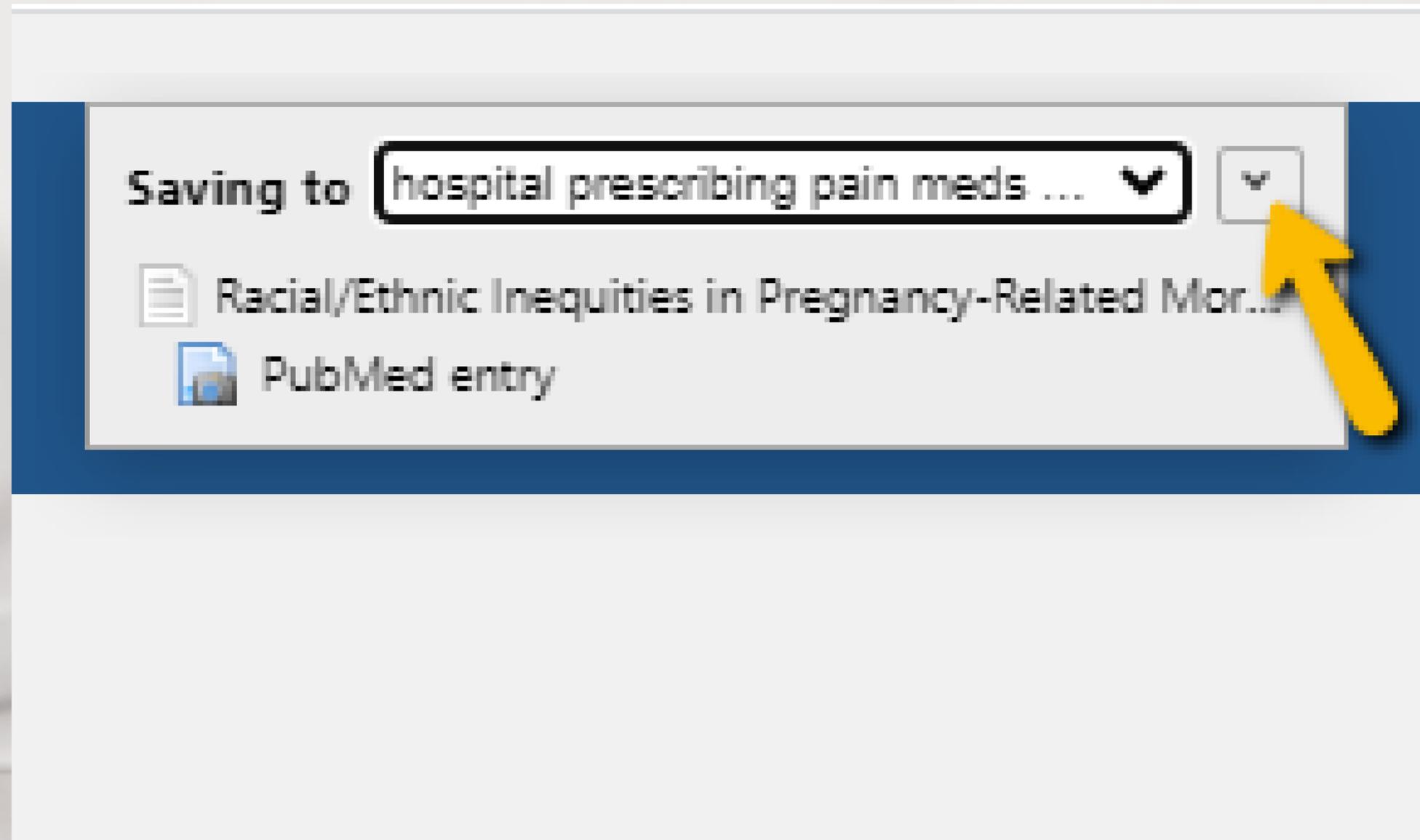
When we do this, we get a dialog box that allows us to specify the collection to which we want to add the reference



2.

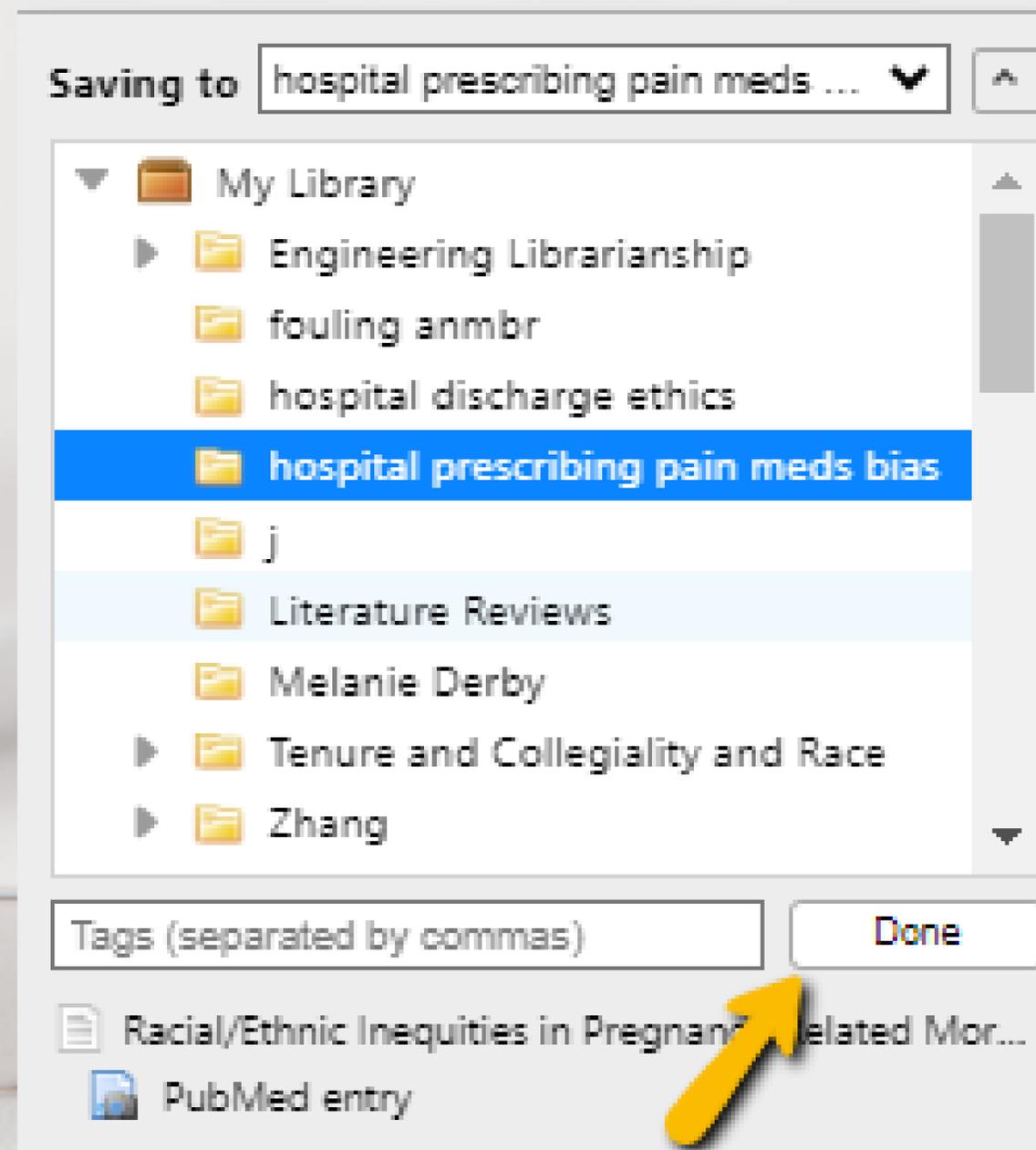
Adding References

Click the icon at the top-right.



2. Adding References

Select the collection to which you want to save the references.
Then click Done



2. Adding References

The Zotero Connector also works with webpages such as this post in UVAToday.



2. Adding References

You can also add references by dragging a file into Zotero. In this case, Zotero attempts to extract metadata from the file and there is no attached file pointing to online metadata.

The image shows a Windows File Explorer window on the left and the Zotero application window on the right. A yellow callout box with a black border is overlaid on the File Explorer, containing the text: "Here, I dragged the pnas.20151607.pdf file from my computer's downloads folder to a folder in Zotero." A yellow arrow points from the file 'pnas.201516047' in the File Explorer to the Zotero interface. The Zotero window shows a library named 'hospital prescribing pain meds bias - Zotero' with a list of items. The item 'Hoffman et al. - 2016 - Racial bias in pain assessment and treatment...' is highlighted, and a red PDF icon is visible next to it.

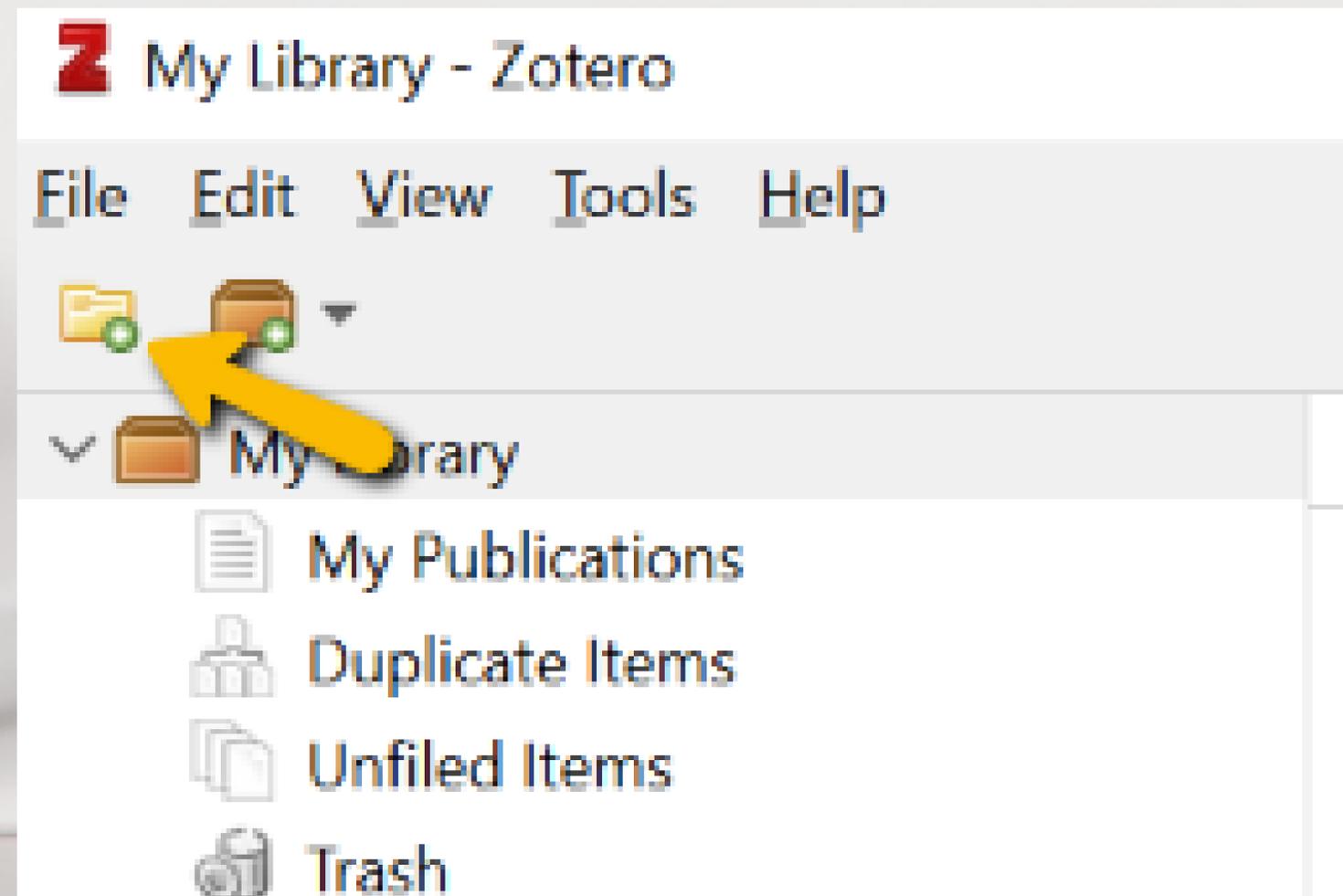
Here, I dragged the pnas.20151607.pdf file from my computer's downloads folder to a folder in Zotero.

Title	Creator	Date
Characterizing opioid prescribing to adolescents at time of discharge f...	Axson et al.	2022
Racial/Ethnic Inequities in Pregnancy-Related Morbidity and Mortality	Minehart et al.	2021-03
Factors influencing trends in opioid prescribing for older people: a sco...	Mikelyte et al.	2020-09...
The Influence of Patient Race and Activation on Pain Management in ...	Shields et al.	2019-03
Racial bias in pain assessment and treatment recommendations, and f...	Hoffman et al.	2016-04...

3.

Collections

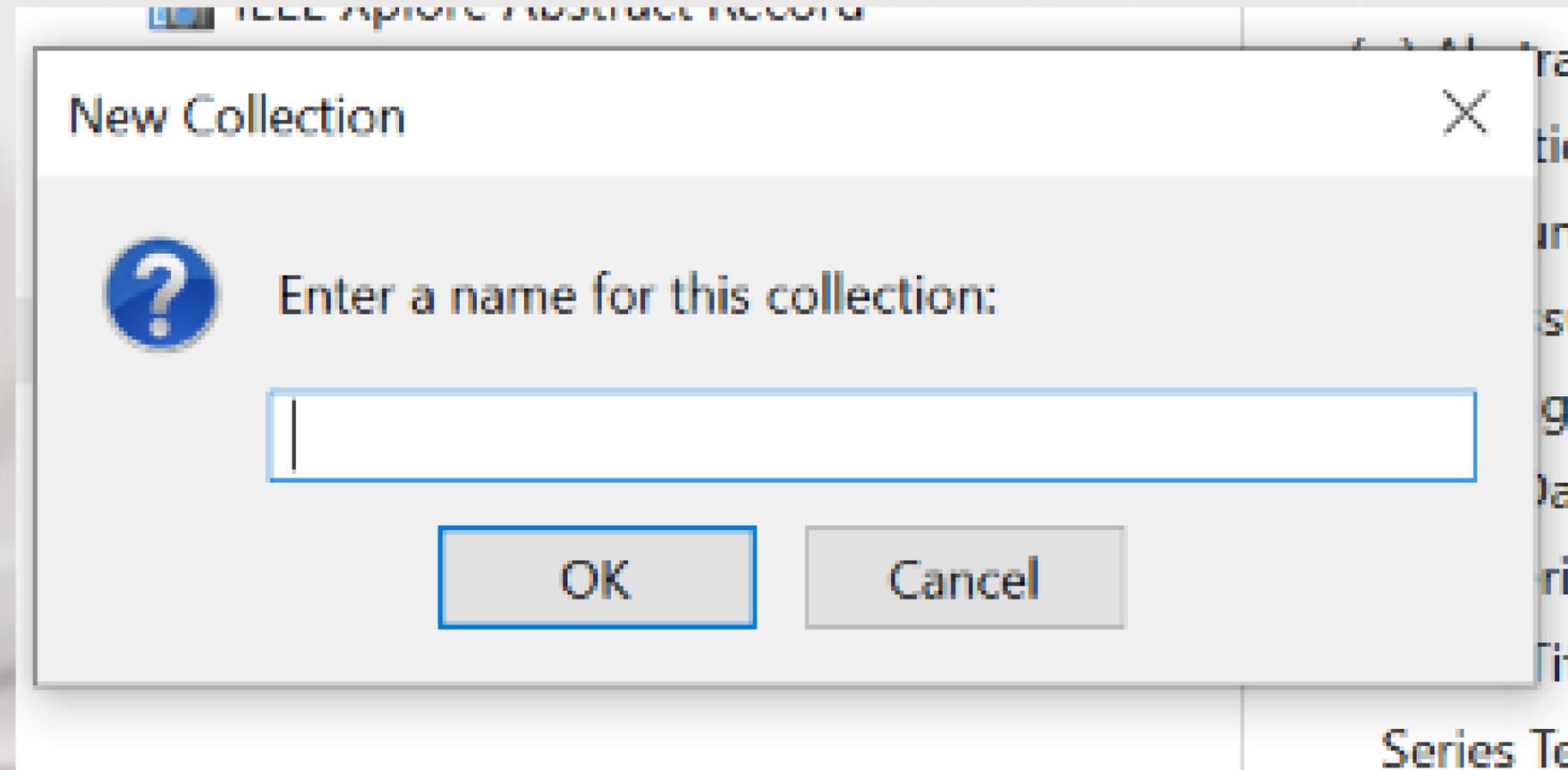
If you use Zotero for multiple projects, you will want to create collections. You can do this by clicking the folder icon



3.

Collections

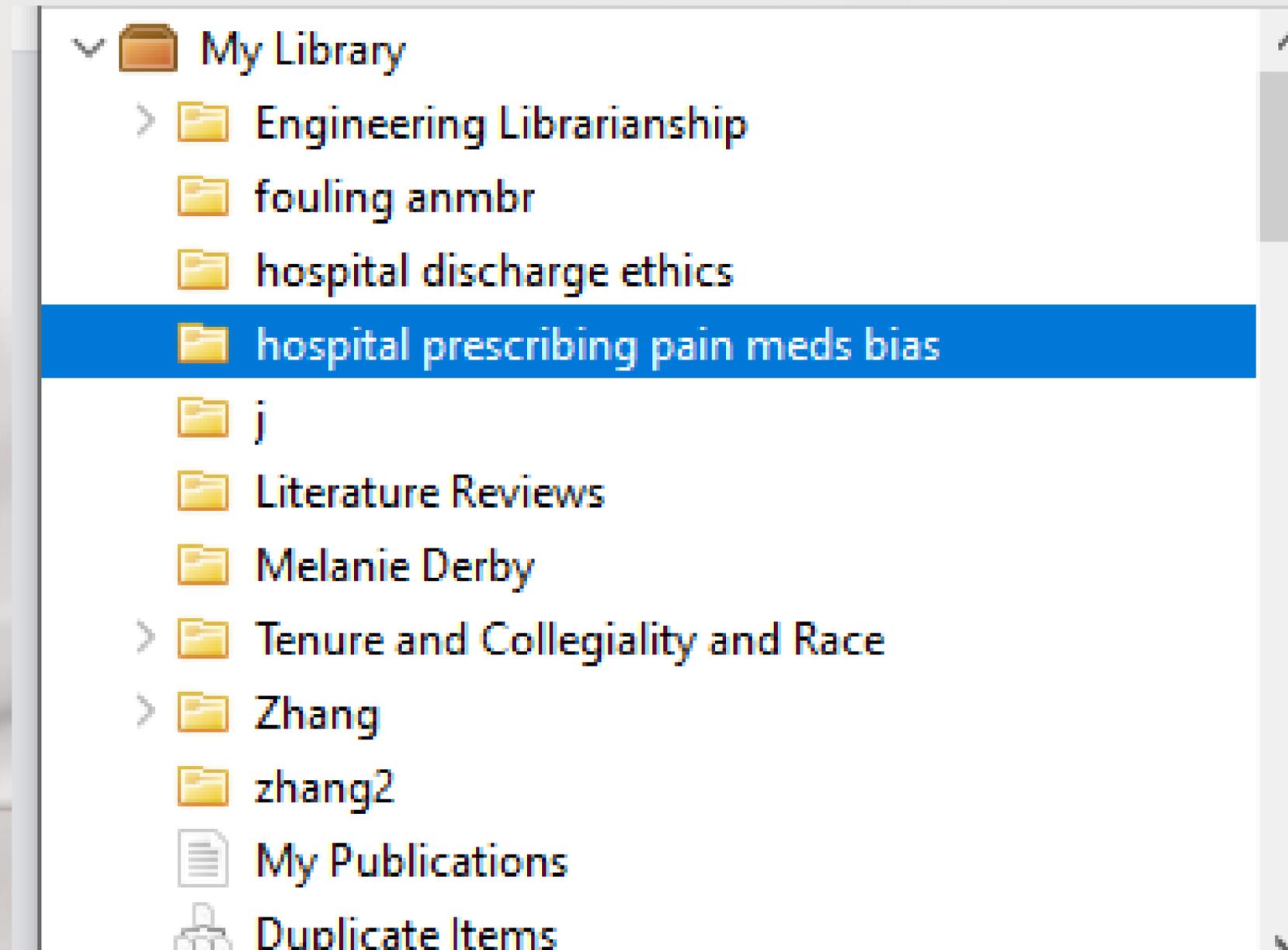
You will be prompted to give your collection a name.



3.

Collections

I have 10 collections in my Zotero library.

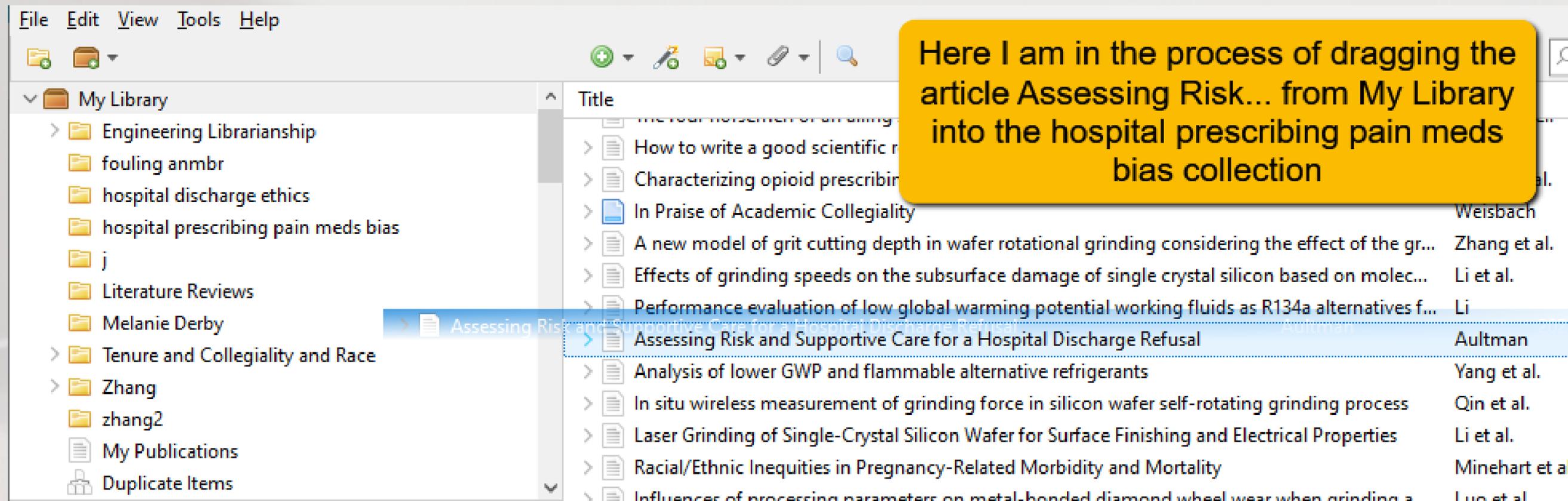


3.

Collections

As we have already seen, you can add an item to a collection when using the Zotero Connector or when dragging a file from your computer into a collection.

A third way to add an item to a collection, is to drag it into the folder from another collection or from the My Library folder.



3.

Collections

Whenever you add an item to a collection, it is also automatically included in the My Library folder (unless it was already there).

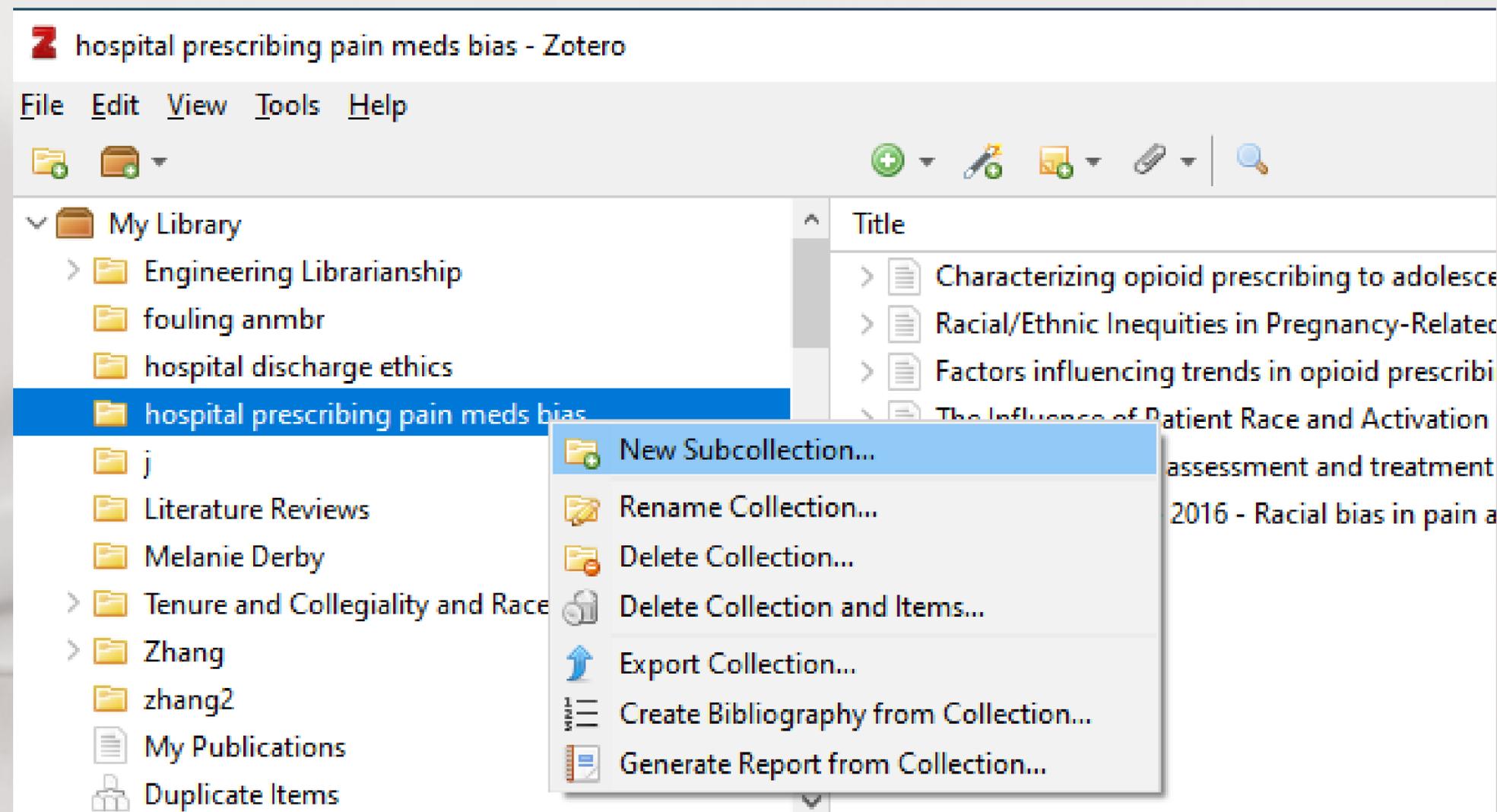
A few additional tips about collections:

- An individual reference can be in multiple collections.
- If you move an item to the trash from a collection, it will remain in the My Library folder and in any other collections where it was present.
- If you move an item from the My Library folder to trash, it will be removed from all collections as well.

3.

Collections

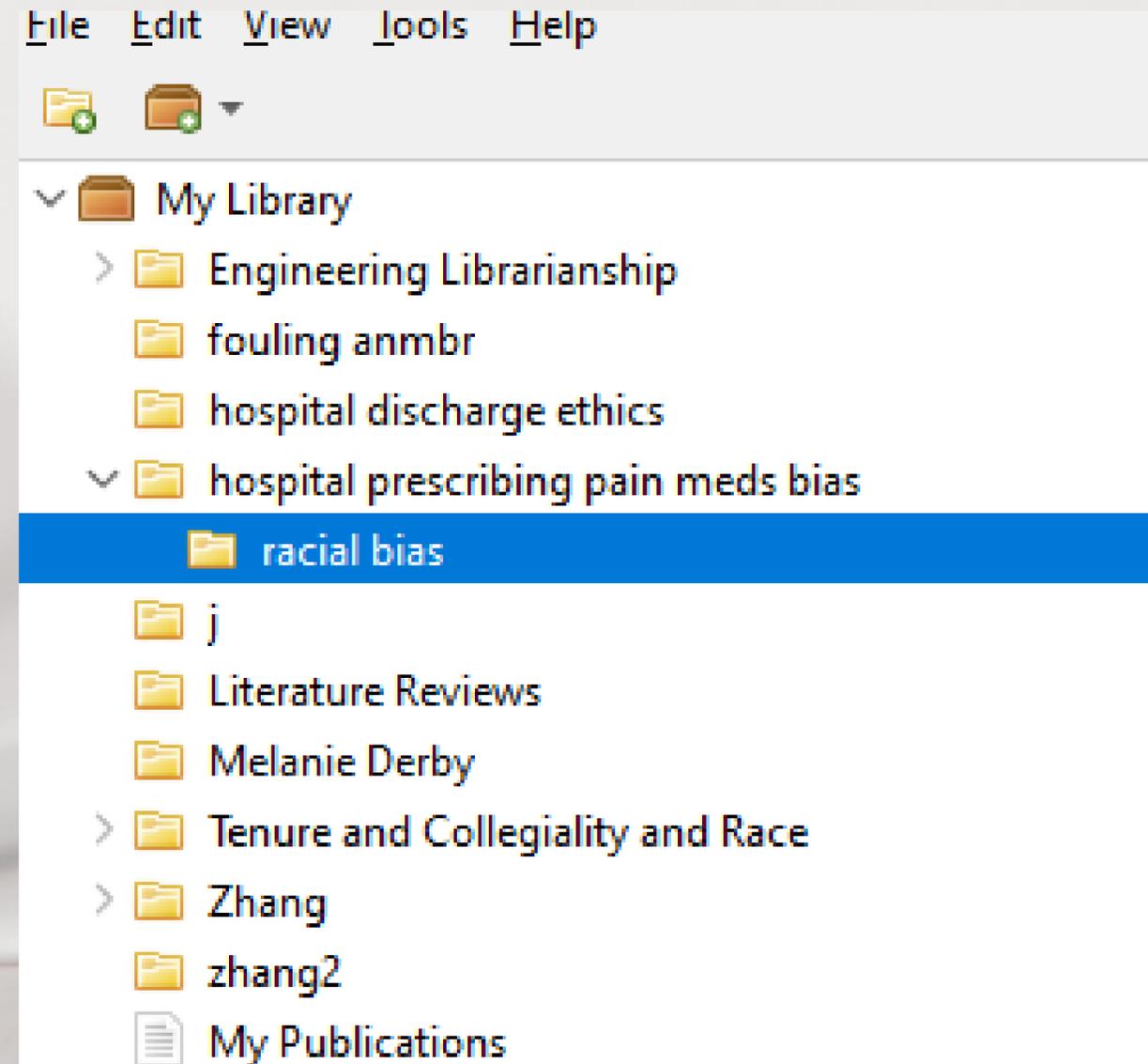
If you want to be super organized, you can create subcollections by right-clicking on a collection and selecting New subcollection.



3.

Collections

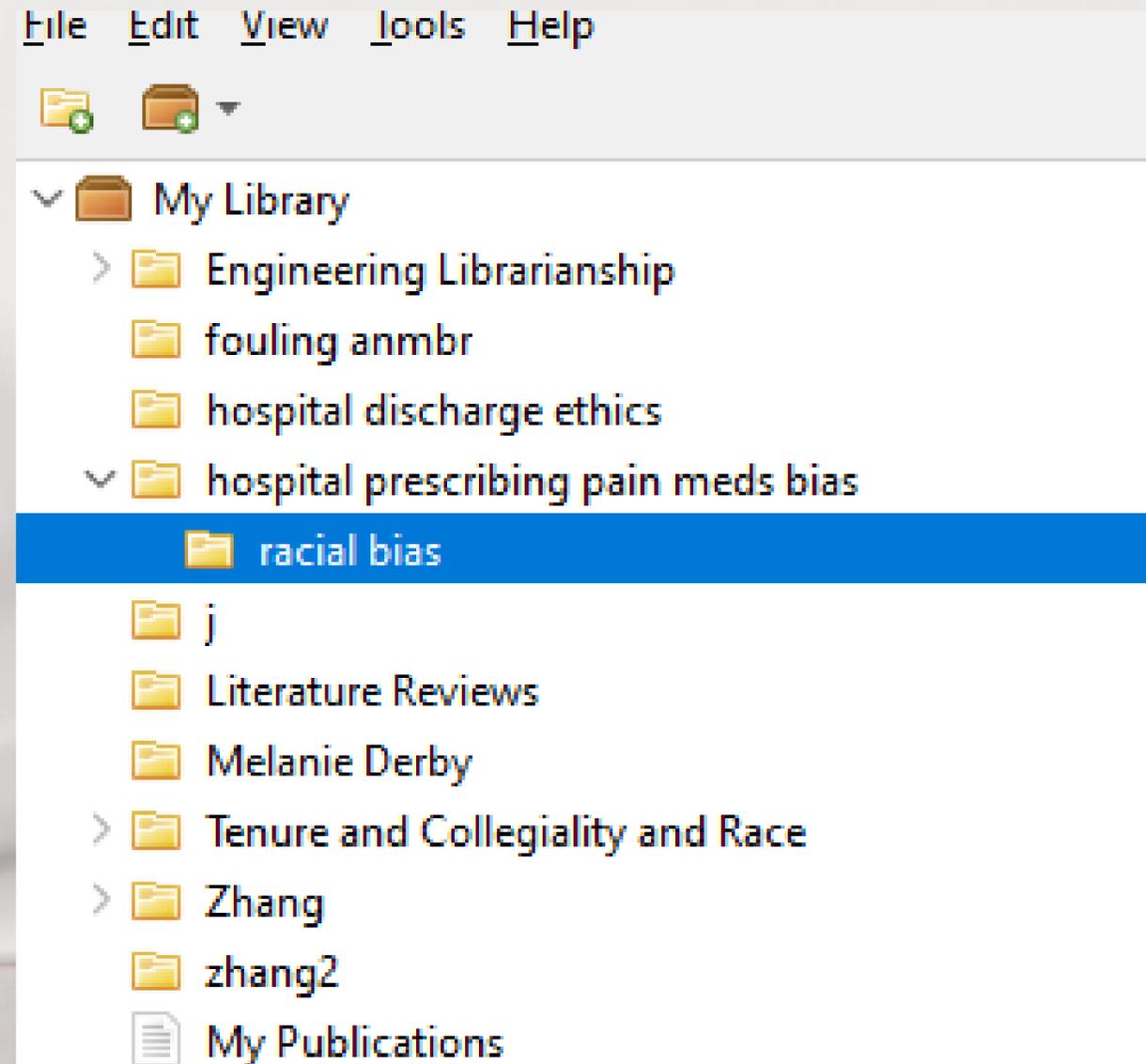
Here, I've created a sub-collection titled "racial bias"



3.

Collections

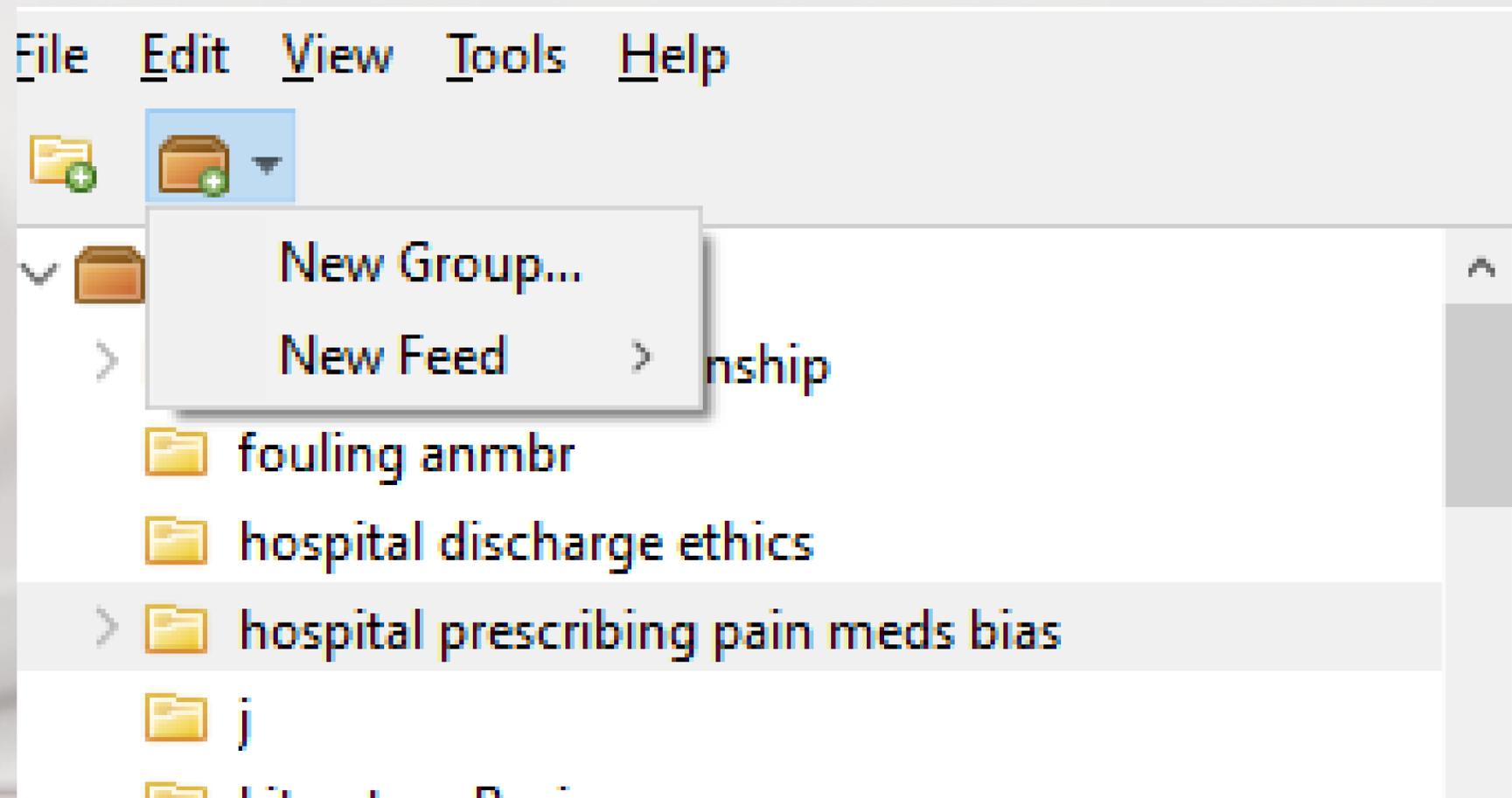
You can create sub-sub-collections and sub-sub-sub-collections and so on, if you wish.



4.

Group Libraries

You can create group libraries by clicking the new library icon and then selecting new group



4.

Group Libraries

This will take you to Zotero's online site. If you aren't logged in with your Zotero account, you will need to do so. Then you will see several options for creating a new group.

The screenshot shows the Zotero website's 'Create a New Group' page. At the top, there is a navigation bar with links for Home, Web Library, Groups, Documentation, Forums, and Get Involved. A search bar for groups is also present. Below the navigation, the breadcrumb trail reads 'Home > Groups > New group'. The main heading is 'Create a New Group', with a secondary link for 'Search for Groups · Create a New Group'. The 'Group Name' section includes a text input field with the prompt 'Choose a name for your group'. Below this, the 'Group URL' is shown as 'https://www.zotero.org/groups/'. The 'Group Type' section offers three options: 'Public, Open Membership' (selected), 'Public, Closed Membership', and 'Private Membership'. Each option includes a brief description and a radio button. A red 'Create Group' button is located at the bottom of the form.

Home Web Library **Groups** Documentation Forums Get Involved Search for groups Search

Home > Groups > New group

Create a New Group

[Search for Groups](#) · [Create a New Group](#)

Group Name

Choose a name for your group

Group URL: <https://www.zotero.org/groups/>

Group Type

Public, Open Membership

Anyone can view your group online and join the group instantly.

Choose a Public, Open Membership

Public, Closed Membership

Anyone can view your group online, but members must apply or be invited.

Choose Public, Closed Membership

Private Membership

Only members can view your group online and must be invited to join.

Choose Private Membership

Create Group

4.

Group Libraries

When you click the Create Group button, you will have several choices to make.

DAS497jmc Settings

[Group Settings](#) · [Members Settings](#) · [Library Settings](#)

Group Type

Private

Public Closed

Public Open

Controls who can see and join your group

Library Reading

Anyone on the internet

Any group member

Who can see items in this group's library?

Library Editing

Any group members

Only group admins

Who can add, edit, and remove items from this group's library?

File Editing

Any group members

Only group admins

No group file storage

Who can work with files stored in the group? Public Open groups cannot have file storage enabled.

[Save Settings](#)

4.

Group Libraries

You can add members by clicking the Members Settings link and then the Send More Invitations link.

[Home](#) > [Groups](#) > [DAS497jmc](#) > Settings

DAS497jmc: Members Settings

[Group Settings](#) · [Members Settings](#) · [Library Settings](#)

Current Members

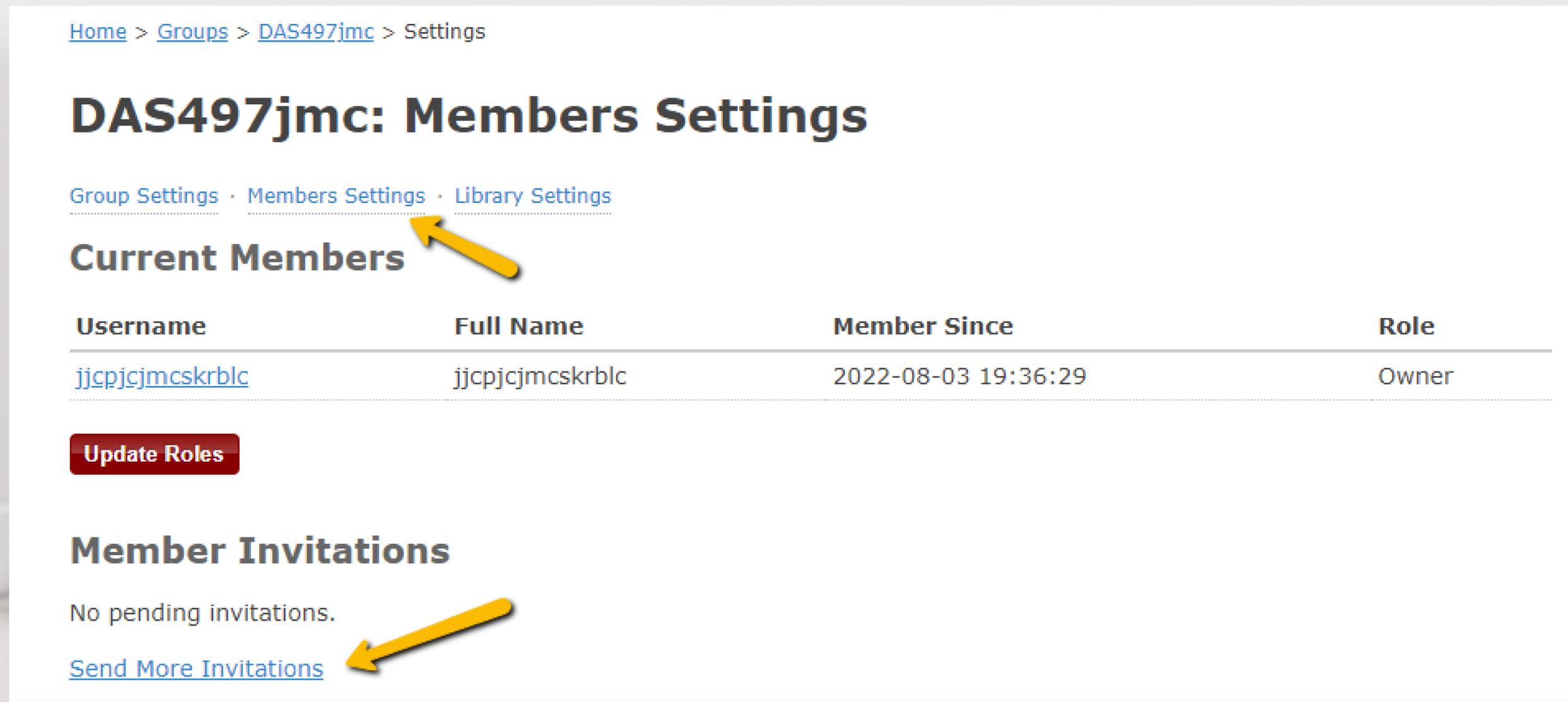
Username	Full Name	Member Since	Role
jjcpjcmcskrblc	jjcpjcmcskrblc	2022-08-03 19:36:29	Owner

[Update Roles](#)

Member Invitations

No pending invitations.

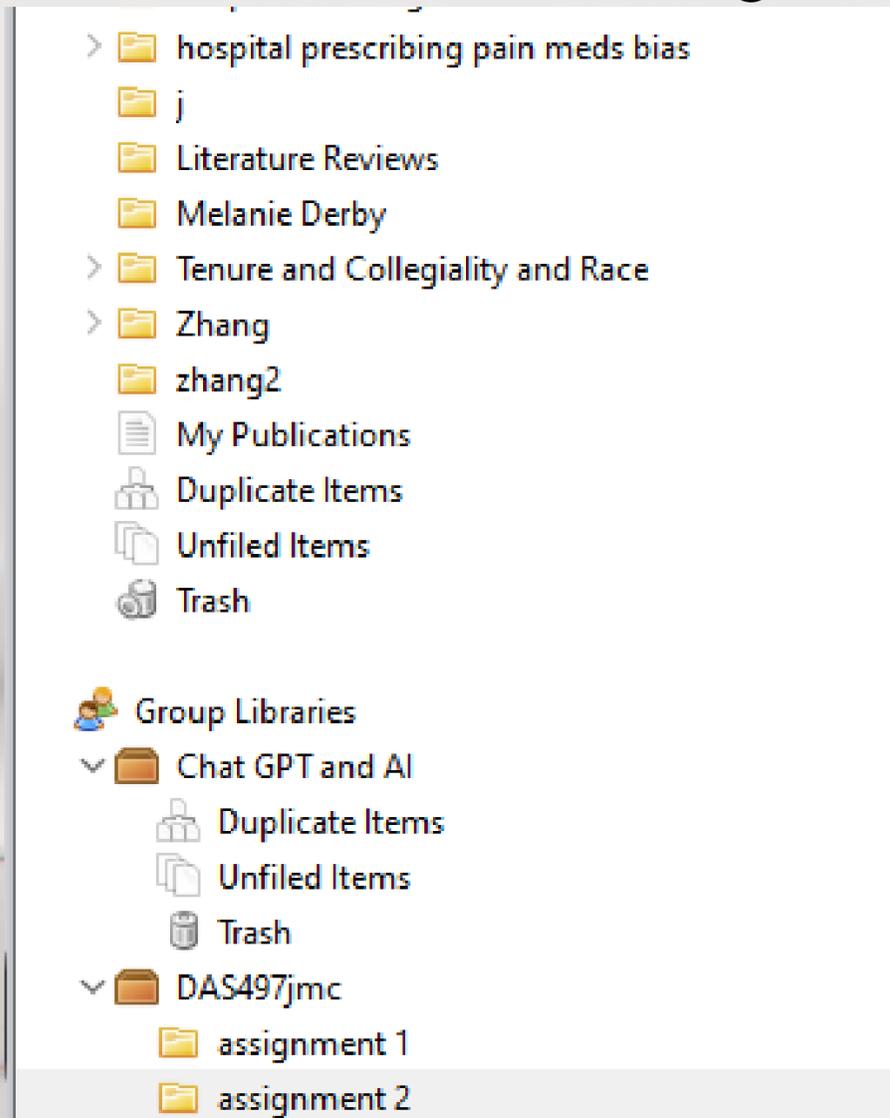
[Send More Invitations](#)



4.

Group Libraries

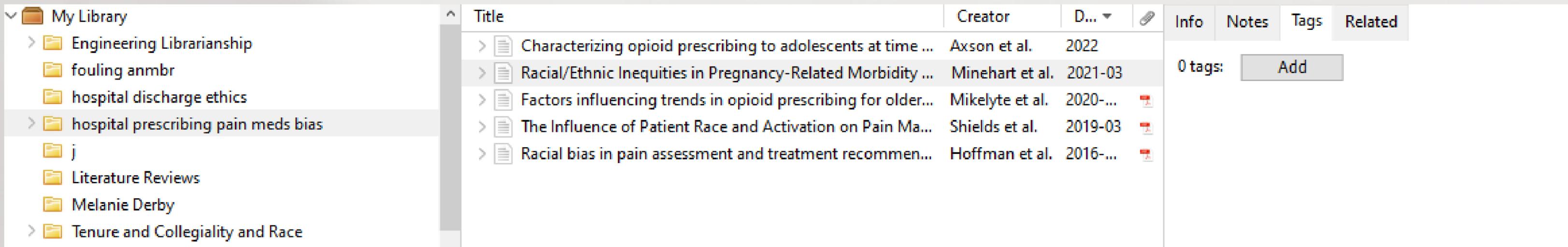
I have access to two Group Libraries. The ChatGPT and AI group library is one that someone else created and then sent me an invitation to join. The DAS497jmc group is one I created. Notice that I have added two collections to the group library.



5.

Tags

Tags can be a handy way to organize your references. To create one, select an item, and then click the Tags tab in the right panel. Then click the Add button.



The screenshot displays a library management interface. On the left, a sidebar shows a tree view of folders under 'My Library', including 'Engineering Librarianship', 'fouling anmbr', 'hospital discharge ethics', 'hospital prescribing pain meds bias', 'j', 'Literature Reviews', 'Melanie Derby', and 'Tenure and Collegiality and Race'. The main area shows a list of references with columns for Title, Creator, and Date. The 'Tags' tab is selected in the right-hand panel, showing '0 tags:' and an 'Add' button.

Title	Creator	D...
> [document icon] Characterizing opioid prescribing to adolescents at time ...	Axson et al.	2022
> [document icon] Racial/Ethnic Inequities in Pregnancy-Related Morbidity ...	Minehart et al.	2021-03
> [document icon] Factors influencing trends in opioid prescribing for older...	Mikelyte et al.	2020-...
> [document icon] The Influence of Patient Race and Activation on Pain Ma...	Shields et al.	2019-03
> [document icon] Racial bias in pain assessment and treatment recommen...	Hoffman et al.	2016-...

Info Notes **Tags** Related

0 tags:

5.

Tags

Here is what it looks like after I added two tags

The screenshot shows a reference management application interface. On the left, a list of articles is displayed with columns for Title, Creator, and Date. The second article, 'Racial/Ethnic Inequities in Pregnancy-Related Morbidity ...' by Minehart et al. (2021-03), is selected. On the right, a detailed view for this article is shown, including tabs for Info, Notes, Tags, and Related. The 'Tags' tab is active, displaying '2 tags: pregnancy, racial disparity' with an 'Add' button and expand/collapse icons.

Title	Creator	D...	
> [document icon] Characterizing opioid prescribing to adolescents at time ...	Axson et al.	2022	
∨ [document icon] Racial/Ethnic Inequities in Pregnancy-Related Morbidity ...	Minehart et al.	2021-03	
[document icon] PubMed entry			
> [document icon] Factors influencing trends in opioid prescribing for older...	Mikelyte et al.	2020-...	[flag icon]
> [document icon] The Influence of Patient Race and Activation on Pain Ma...	Shields et al.	2019-03	[flag icon]
> [document icon] Racial bias in pain assessment and treatment recommen...	Hoffman et al.	2016-...	[flag icon]

Info | Notes | **Tags** | Related

2 tags:

- [tag icon] pregnancy [collapse icon]
- [tag icon] racial disparity [collapse icon]

5.

Tags

Notice that all of your tags from all of your collections appear at the bottom of the left panel. If you are viewing a collection, the tags in that collection will be in black font, while others will be in gray font.

Title	Creator	D...	
> [document icon] Characterizing opioid prescribing to adolescents at time ...	Axson et al.	2022	
> [document icon] Racial/Ethnic Inequities in Pregnancy-Related Morbidity ...	Minehart et al.	2021-03	
> [document icon] Factors influencing trends in opioid prescribing for older...	Mikelyte et al.	2020-...	[red icon]
> [document icon] The Influence of Patient Race and Activation on Pain Ma...	Shields et al.	2019-03	[red icon]
> [document icon] Racial bias in pain assessment and treatment recommen...	Hoffman et al.	2016-...	[red icon]

graduate students lit reviews pregnancy racial disparity

5.

Tags

If you click on a tag in black font when viewing a folder, you will see a list of all references in that folder that have that tag.

The screenshot shows the Zotero application window titled "hospital prescribing pain meds bias - Zotero". The interface includes a menu bar (File, Edit, View, Tools, Help), a toolbar with icons for adding, deleting, and searching, and a search bar containing "Everything".

The left sidebar displays a hierarchical folder structure under "My Library":

- Engineering Librarianship
- fouling anmbr
- hospital discharge ethics
- hospital prescribing pain meds bias
 - racial bias
 - 1
 - 2
 - 3
 - 5
 - j
 - Literature Reviews

The main pane shows a list of references with columns for Title, Creator, and Date:

Title	Creator	D...
Racial/Ethnic Inequities in Pregnancy-Related Morbidity ...	Minehart et al.	2021-03
Racial bias in pain assessment and treatment recommen...	Hoffman et al.	2016-...

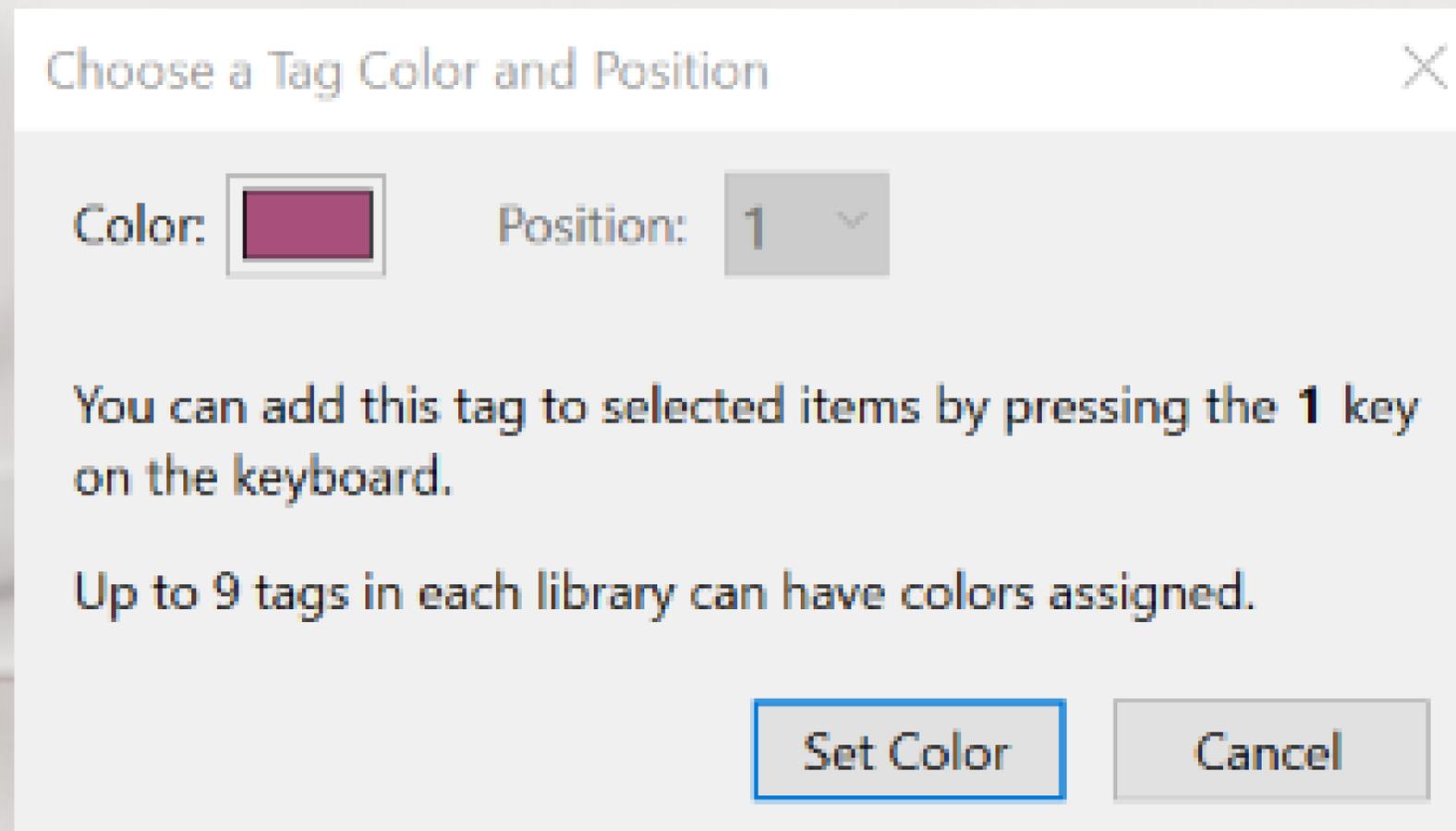
The right pane shows the "Tags" tab for the selected reference, displaying "1 tag: Add" and a tag labeled "racial disparity".

At the bottom of the window, a tag bar shows "graduate students", "lit reviews", "pregnancy", and "racial disparity" (which is highlighted in blue).

5.

Tags

If you right-click a tag in the folder panel, you can assign a number and a color to it. You can use that number to easily assign the tag to other items in the folder. To do that, simply type the number of the tag when the tags tab is open.



6.

Notes

When an item is selected, you can make notes by clicking the notes tab in the right panel and clicking Add. You will then be able to type and format your note. Each note can be quite long.

The screenshot shows the Zotero application window titled "hospital prescribing pain meds bias - Zotero". The interface includes a menu bar (File, Edit, View, Tools, Help), a toolbar with icons for adding, deleting, and searching, and a search bar containing "Everything".

The left sidebar shows a tree view of the library structure:

- My Library
 - Engineering Librarianship
 - fouling anmbr
 - hospital discharge ethics
 - hospital prescribing pain meds bias
 - racial bias
 - 1
 - 2
 - 3

Title	Creator	D...	
> [document icon] Characterizing opioid prescribing to adolescents at time ...	Axson et al.	2022	
> [document icon] Racial/Ethnic Inequities in Pregnancy-Related Morbidi...	Minehart et al.	2021-03	
▼ [document icon] Factors influencing trends in opioid prescribing for older...	Mikelyte et al.	2020-...	[trash icon]
[document icon] This is an incisive article that I want to cite in my intro...			
[document icon] Full Text			
[document icon] PubMed entry			
> [document icon] The Influence of Patient Race and Activation on Pain ...	Shields et al.	2019-03	[trash icon]
> [document icon] Racial bias in pain assessment and treatment recomm...	Hoffman et al.	2016-...	[trash icon]

Formatting toolbar: Aa, A⁺, [pencil icon], T_x, [link icon], [+], [search icon], [more icon]

This is an incisive article that I want to cite in my introduction. The methodology is particularly sound.

6.

Notes

You can have several different notes for an item. You can edit a note by clicking on it.

The screenshot shows a library interface with a folder structure on the left and a list of items on the right. The folder structure is as follows:

- My Library
 - Engineering Librarianship
 - fouling anmbr
 - hospital discharge ethics
 - hospital prescribing pain meds bias
 - racial bias
 - 1
 - 2
 - 3
 - 5
 - j
 - Literature Reviews

The list of items on the right is as follows:

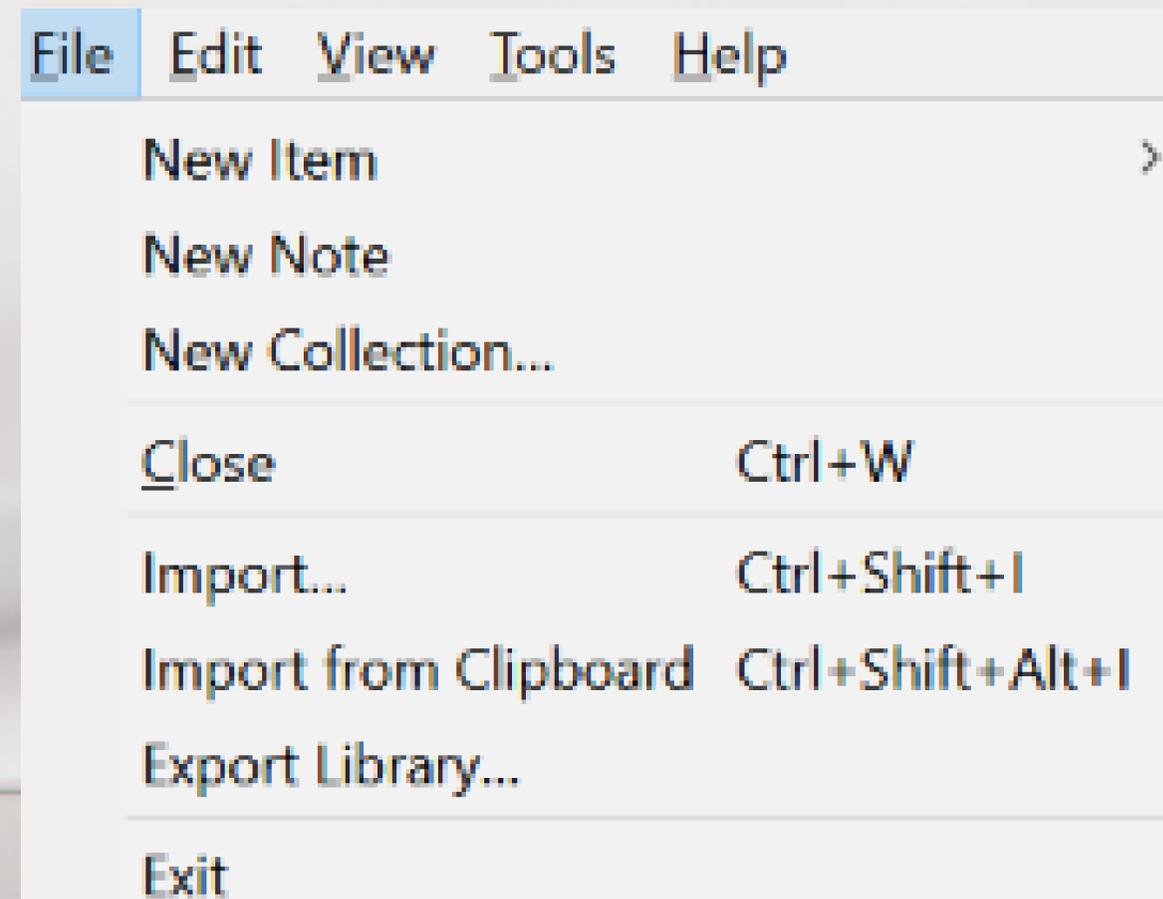
Title	Creator	D...	
> Characterizing opioid prescribing to adolescents at time ...	Axson et al.	2022	
> Racial/Ethnic Inequities in Pregnancy-Related Morbidi...	Minehart et al.	2021-03	
▼ Factors influencing trends in opioid prescribing for older...	Mikelyte et al.	2020-...	
I disagree with the authors' main conclusions about th...			
This is an incisive article that I want to cite in my intro...			
This resonates with me and reminds me of what I obse...			
Full Text			
PubMed entry			
> The Influence of Patient Race and Activation on Pain ...	Shields et al.	2019-03	
> Racial bias in pain assessment and treatment recomm...	Hoffman et al.	2016-...	

At the bottom of the folder structure, there are tags: **racial disparity**, graduate students, and lit reviews.

6.

Notes

You can also create notes in a collection that are not attached to a specific item. To do this, select the collection to which you want to add the note, then click File from the top-level menu, and then New Note.



6.

Notes

These notes will appear at the bottom of the list of references in a folder.

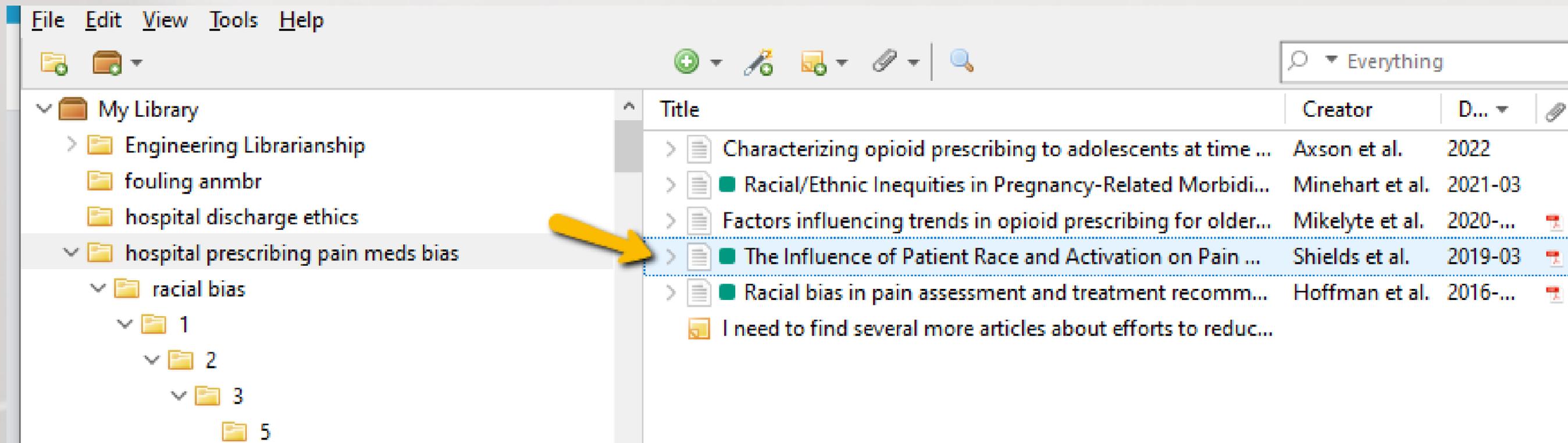
The screenshot shows a library management software interface. On the left, a folder tree under 'My Library' is expanded to show a folder named 'hospital prescribing pain meds bias', which contains a sub-folder 'racial bias'. Inside 'racial bias', there are three numbered folders (1, 2, 3) and a folder '5'. The main pane on the right displays a list of references with columns for 'Title', 'Creator', and 'D...'. The references listed are:

Title	Creator	D...
> Characterizing opioid prescribing to adolescents at time ...	Axson et al.	2022
> Racial/Ethnic Inequities in Pregnancy-Related Morbidi...	Minehart et al.	2021-03
∨ Factors influencing trends in opioid prescribing for older...	Mikelyte et al.	2020-...
I disagree with the authors' main conclusions about th...		
This is an incisive article that I want to cite in my intro...		
This resonates with me and reminds me of what I obse...		
Full Text		
PubMed entry		
> The Influence of Patient Race and Activation on Pain ...	Shields et al.	2019-03
> Racial bias in pain assessment and treatment recomm...	Hoffman et al.	2016-...
I need to find several more articles about efforts to reduc...		

At the bottom of the interface, there are tags: 'racial disparity', 'graduate students', and 'lit reviews'.

6. Annotating Pdfs

If an item has a pdf attached, as indicated by the pdf icon to the right of the Date column, you can double-click it to bring up that pdf.



The screenshot shows a library application window with a menu bar (File, Edit, View, Tools, Help) and a search bar. The left sidebar displays a folder structure under 'My Library', including 'Engineering Librarianship', 'fouling anmbr', 'hospital discharge ethics', and 'hospital prescribing pain meds bias'. The main pane shows a list of items with columns for Title, Creator, and Date. A yellow arrow points to the item 'The Influence of Patient Race and Activation on Pain ...' by Shields et al., dated 2019-03, which has a PDF icon to its right.

Title	Creator	D...	
> Characterizing opioid prescribing to adolescents at time ...	Axson et al.	2022	
> Racial/Ethnic Inequities in Pregnancy-Related Morbidi...	Minehart et al.	2021-03	
> Factors influencing trends in opioid prescribing for older...	Mikelyte et al.	2020-...	
> The Influence of Patient Race and Activation on Pain ...	Shields et al.	2019-03	
> Racial bias in pain assessment and treatment recomm...	Hoffman et al.	2016-...	
I need to find several more articles about efforts to reduc...			

6. Annotating Pdfs

When viewing a pdf, you can click the top-left and the top-right icons to reveal useful panels.



6. Annotating Pdfs

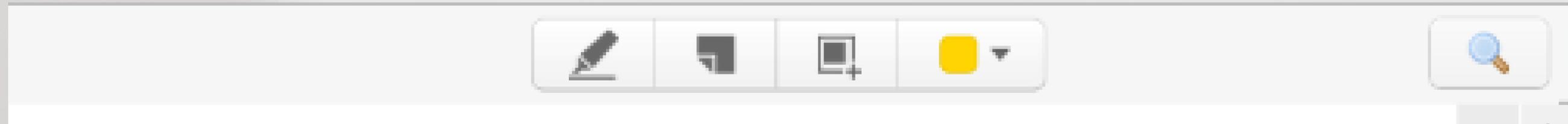
The left panel shows any selections you have highlighted in the pdf. The right section shows notes you've made for the item as well as all notes for all items in the collection.

The screenshot displays a PDF annotation application. The top menu bar includes 'File', 'Edit', 'View', 'Go', 'Tools', and 'Help'. Below the menu, there are two tabs: 'hospital prescribing pai...' and 'The Influence of Patient Rac... X'. A toolbar contains various icons for navigation and editing, including a search icon, a magnifying glass, a double-headed arrow, left and right arrows, a page number '435 (1 of 8)', a pencil, a square, a magnifying glass, and a yellow square. The main content area shows the title 'The Influence of Patient Race and Activation on Pain Management in Advanced Lung Cancer: a Randomized Field Experiment' by Cleveland G. Shields, PhD^{1,2,3}, Jennifer J. Griggs, MD, MPH^{4,5}, Kevin Fiscella, MD, MPH^{6,7,8}, Cezanne M. Elias, PhD³, Sharon L. Christ, PhD^{3,9}, Joseph Colbert, BA¹⁰, Stephen G. Henry, MD, MSc¹¹, Beth G. Hoh, MSW¹², Haslyn E. R. Huntle, PhD¹³, Mary Marshall, MS³, Supriya Gupta Mohile, MD, MS¹⁴, Sandy Plumb, BS^{6,7,14}, Mohamedtaki A. Tejani, MD, MS¹⁴, Alison Venuli, BS⁵, and Ronald M. Epstein, MD^{6,7,12,14,15,16}. The authors' affiliations are listed at the bottom. On the left, a sidebar titled 'Search Annotations' contains the text 'Create an annotation to see it in the sidebar'. On the right, a notes panel shows 'Item Notes' with 'No notes' and 'All Notes' with two entries: 'I need to find several more articles about efforts to reduce t...' (5:26 PM) and 'Factors influencing trends in opioid prescribing for older pe...' (5:21 PM).

6.

Annotating Pdfs

The center of the top bar has five tools: highlight text, add a note, select a portion of the pdf (e.g., an image), select the color of the highlighter, search within the pdf.



6. Annotating Pdfs

Here, I've highlighted a passage. Notice that the highlighted text is saved in the left panel.

The screenshot shows a PDF viewer interface. On the left, there is an annotation panel with a search bar labeled "Search Annotations" and a section titled "Page 439" containing a highlighted text snippet: "We hypothesized that black SPs would receive less adequate treatment for pain in the context of advanced cancer and uncontrolled pain. We did not observe an...". The main document area displays a table with a highlighted row and a corresponding text passage. The table has columns for "Random intercept", σ^2 , and "95% CI". The highlighted row shows values 0.27, 0.00, and 282.16. Below the table, there is a text passage starting with "uncontrolled pain. We did not observe an effect of race or activation on opioid prescribing; however, in post hoc analysis, we did find a difference in prescribing by race but only with oncologists, which we discuss later. Although activation improved pain assessment overall, activation did not modify the effect of race on opioid prescribing or on pain assessment, disconfirming our secondary hypotheses. Our results shed light on the conflicting findings regarding racial disparities in cancer pain management." Below this is a section titled "DISCUSSION" and another highlighted text snippet: "We hypothesized that black SPs would receive less adequate treatment for pain in the context of advanced cancer and". At the bottom, a caption reads: "Table 2 Total Daily Oral Morphine Equivalent Dosing Prescribed by Standardized Patient Race and Activation and Physician Characteristics (Mixed Model Linear Regression)".

Random intercept	σ^2	95% CI
1.62	0.85	3.10
1.64	0.86	3.15
0.27	0.00	282.16

*SP, standardized patient; *p < 0.05; ~ Referent = white*

compared to typical SPs (Table 5). No effect of race or activation was seen among PCPs. Physician race, sex, and age were not associated with prescribing patterns.

Site Effects. Across all analyses (Tables 1, 2, 3, 4, 5), the last data collection site (site #3) was consistently associated with lower prescribing.

There were no appreciable changes in the effect sizes for any of these analyses when we re-analyzed the data excluding detected visits.

DISCUSSION

We hypothesized that black SPs would receive less adequate treatment for pain in the context of advanced cancer and

uncontrolled pain. We did not observe an effect of race or activation on opioid prescribing; however, in post hoc analysis, we did find a difference in prescribing by race but only with oncologists, which we discuss later. Although activation improved pain assessment overall, activation did not modify the effect of race on opioid prescribing or on pain assessment, disconfirming our secondary hypotheses. Our results shed light on the conflicting findings regarding racial disparities in cancer pain management.

There are several explanations for the absence of hypothesized disparities. First, opioid prescribing for pain due to metastatic cancer may not be race-sensitive.²⁴ Given broad

Table 2 Total Daily Oral Morphine Equivalent Dosing Prescribed by Standardized Patient Race and Activation and Physician Characteristics (Mixed Model Linear Regression)

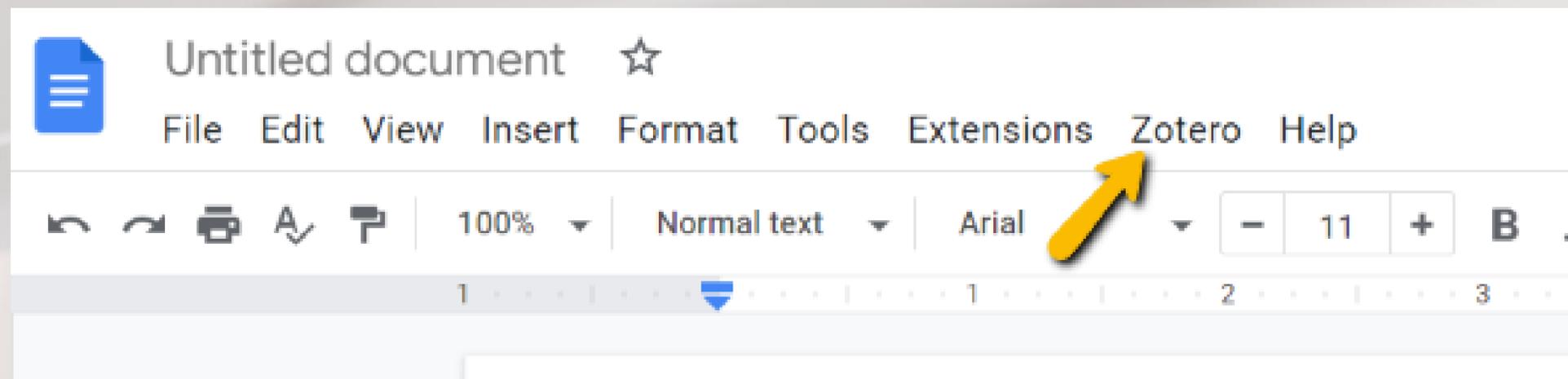
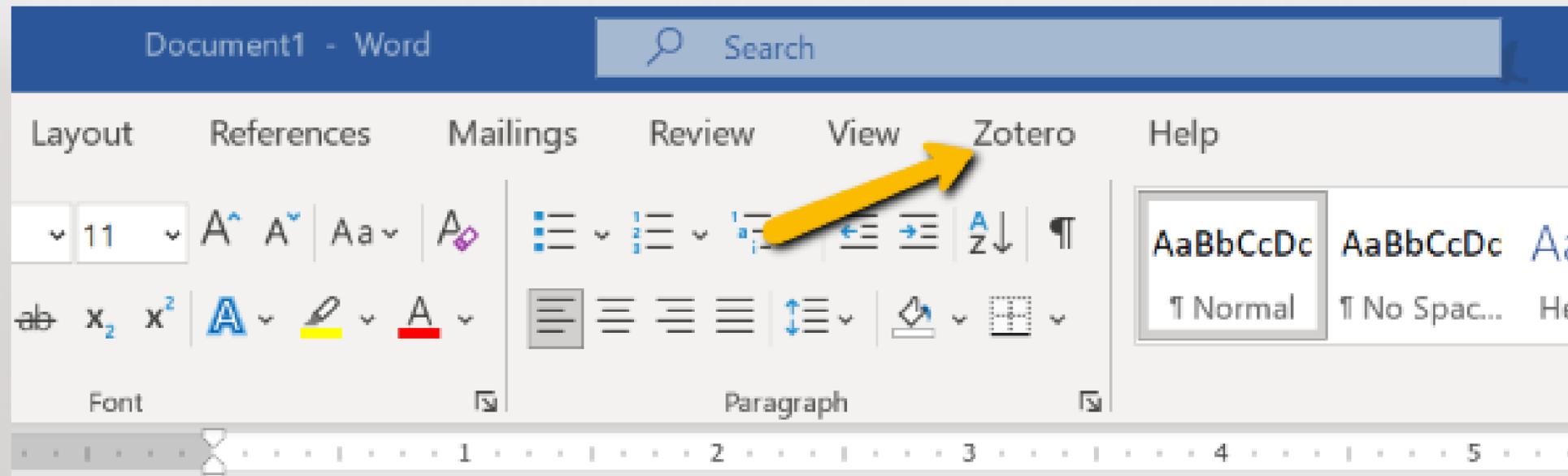
6. Annotating Pdfs

Here, I clicked on the add note icon (1), which gave me a place to write the content of the note in the left panel (2), and also created a note icon, which I can move (3).

The screenshot displays a PDF viewer interface. At the top, a toolbar contains various navigation and editing icons. A yellow arrow labeled '1' points to the 'add note' icon. On the left side, a panel titled 'Search Annotations' shows a list of notes. A yellow arrow labeled '2' points to the first note on page 437, which contains the text: 'True, but could have there been any effects, nonetheless.' Below this note is an 'Add tags...' field. Another note on page 439 is visible below it. The main document area shows a page with the heading 'Data Collection and Outcome Measures'. A yellow arrow labeled '3' points to a yellow note icon that has been placed on the page. To the right of the document, there is a section titled 'Role of the Funding Source' with the text: 'The National Cancer Institute of the National Institutes of Health funded this study. The funder had no role in the study's design, conduct, or reporting.' Below this is a 'RESULTS' section with the text: 'Fourteen SPs completed 181 visits with 96 physicians; 85 physicians completed 2 visits while 11 only completed one'.

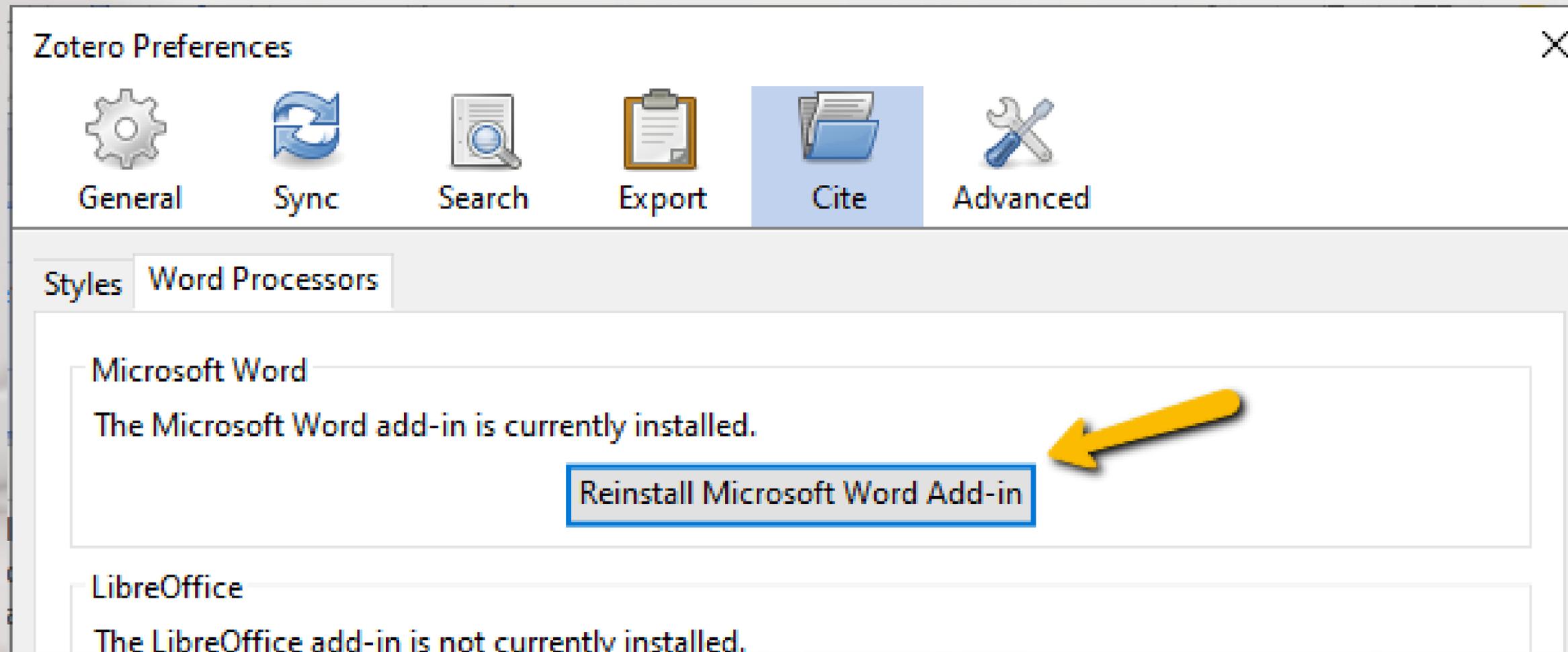
7. Adding in-text citations

When you install Zotero, a Zotero tab should be added to Word and to Google Docs.



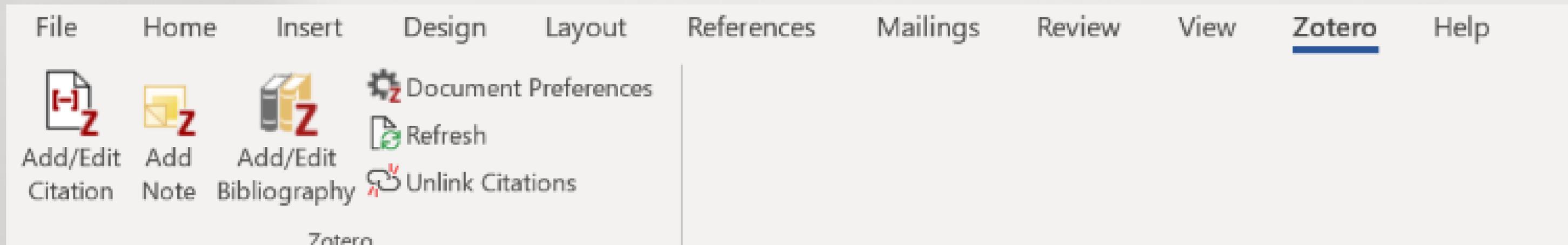
7. Adding in-text citations

If you do not see the Zotero tab in Word, open Zotero and go to the preferences menu (by clicking edit, then preferences if you use a Windows machine, and Zotero, then preferences if you use a Mac). From the preferences menu, click Cite. Then click the button to either install the Add-in or Reinstall it.



7. Adding in-text citations

In Word, clicking the Zotero tab reveals tools for adding in-text citations, quotations from your notes, and creating a bibliography. In Google Docs, these tools are shown as menu items under the Zotero tab.



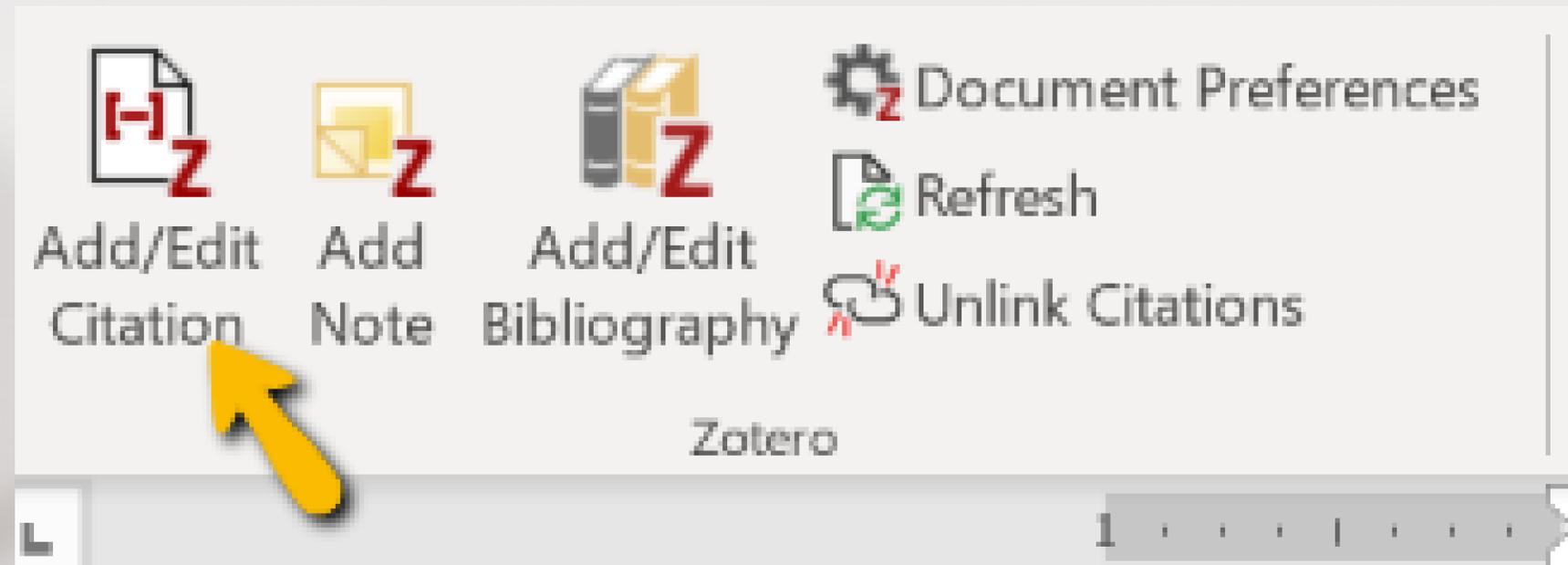
7. Adding in-text citations

In my paper, I've made a claim and I need to indicate where I found that information. I place my cursor at the point I want to add the citation.

There have been reports of racial disparities in the likelihood that a doctor will prescribe an opioid to a patient who has cancer|

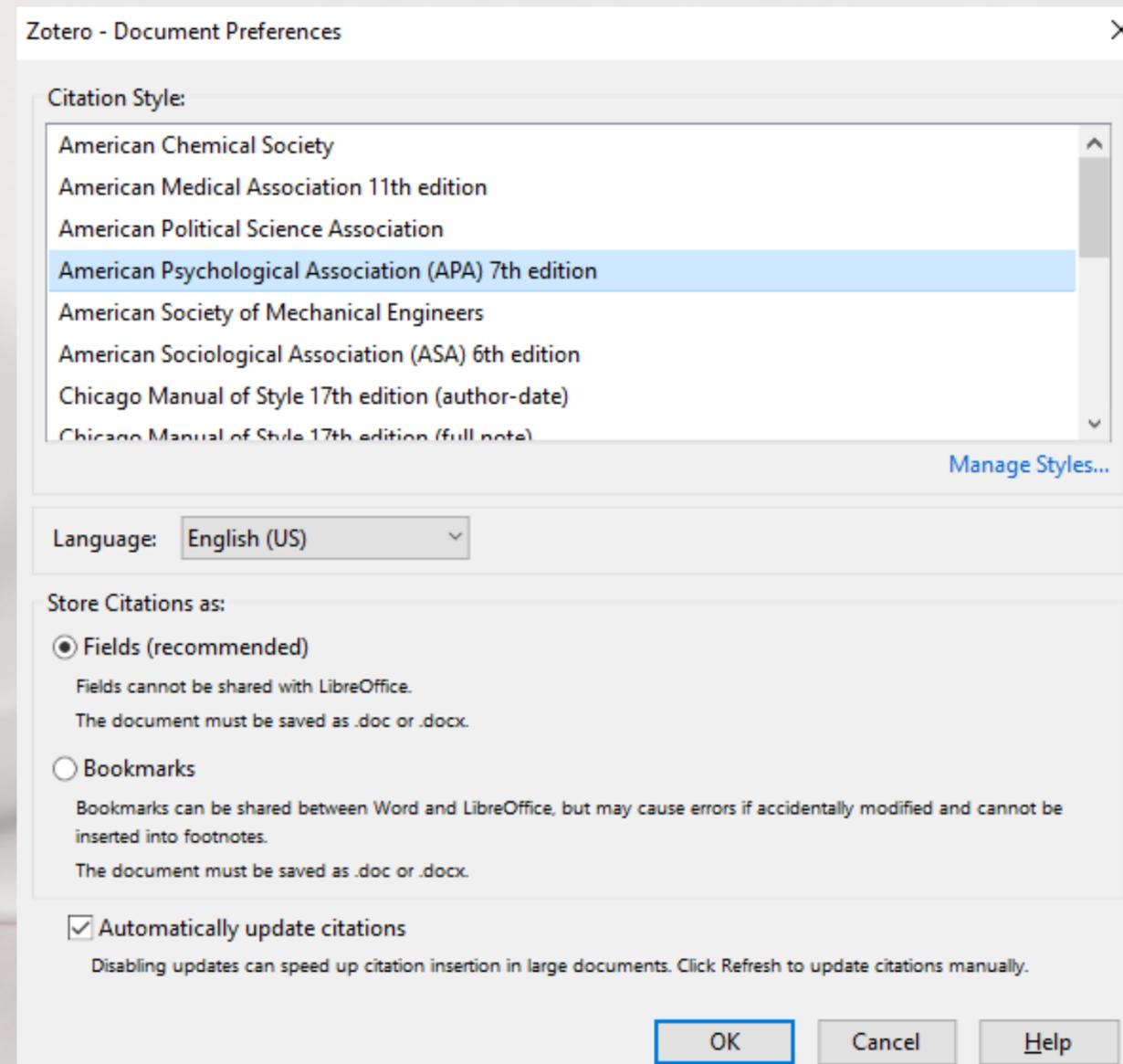
7. Adding in-text citations

Then I click Add/Edit Citation



7. Adding in-text citations

This brings up the document preferences screen. Here I can indicate the citation style I want to use. I'll choose American Psychological Association (APA) 7th edition.



7. Adding in-text citations

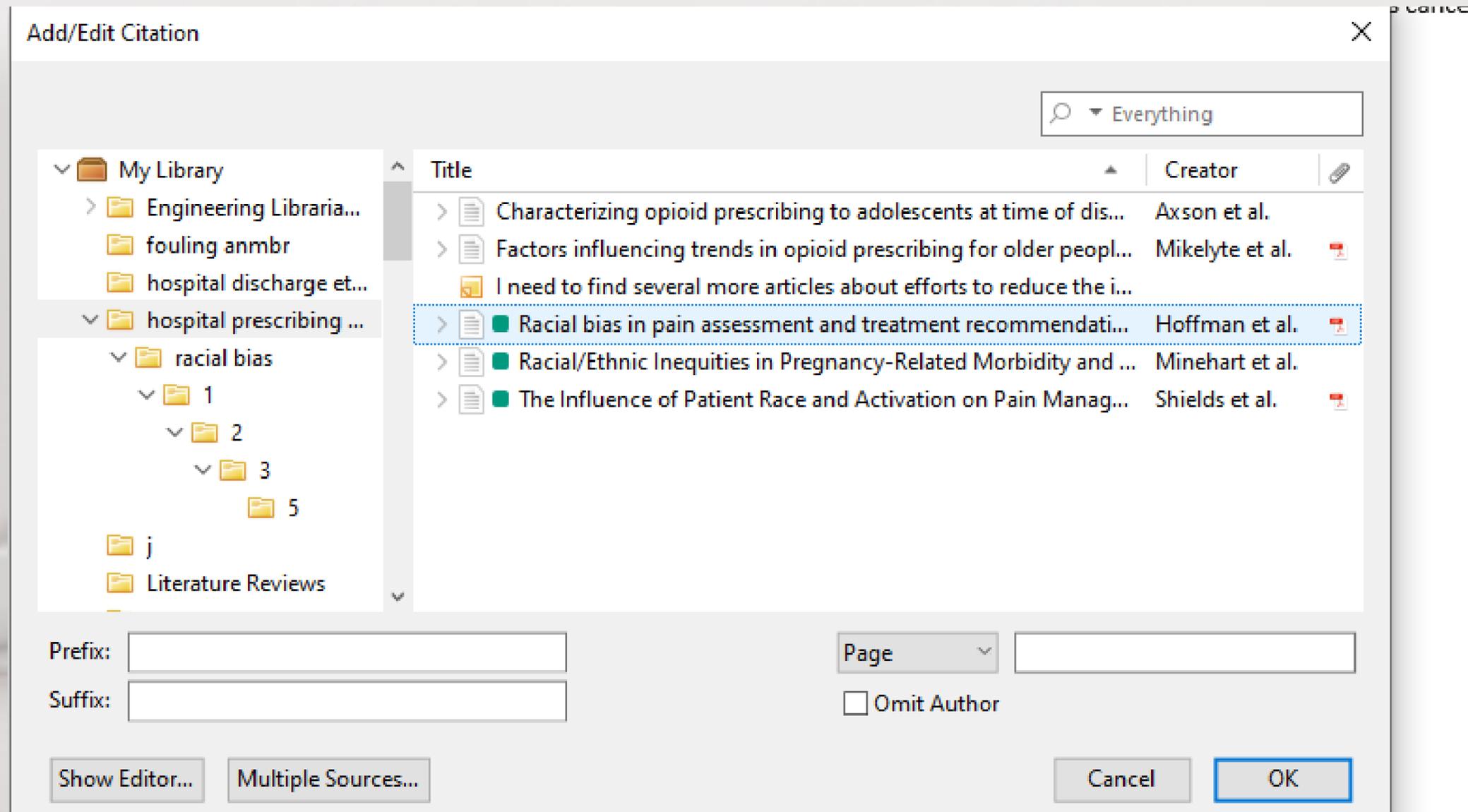
This brings up Zotero's in-text citation bar. Click the Z and then click Classic View

There have been reports of racial disparities in the likelihood that a doctor will prescribe an opioid to a patient who has cancer



7. Adding in-text citations

If you just want to cite one article to support a particular claim and you do not want to identify the page or section containing that support, you can click OK.



7. Adding in-text citations

Here is what my document looks like after clicking the article for which Hoffman was the first author.

There have been reports of racial disparities in the likelihood that a doctor will prescribe an opioid to a patient who has cancer (Hoffman et al., 2016).

7. Adding in-text citations

If you provide a quotation, you will need to indicate the page or section containing that quote. For example:

There have been reports of racial disparities in the likelihood that a doctor will prescribe an opioid to a patient who has cancer (Hoffman et al., 2016). Recently increased attention has been given to understanding the factors that contribute to this disparity. One intriguing possibility is presented in the following succinct quote: “Physician-patient communication may contribute to disparities in cancer pain treatment” {Citation}.

Add/Edit Citation

Everything

My Library

- Engineering Libraria...
- fouling anmbr
- hospital discharge et...
- hospital prescribing ...
 - racial bias
 - 1
 - 2
 - 3
 - 5
 - j
 - Literature Reviews

Title	Creator
Characterizing opioid prescribing to adolescents at time of dis...	Axson et al.
Factors influencing trends in opioid prescribing for older peopl...	Mikelyte et al.
I need to find several more articles about efforts to reduce the i...	
Racial bias in pain assessment and treatment recommendati...	Hoffman et al.
Racial/Ethnic Inequities in Pregnancy-Related Morbidity and ...	Minehart et al.
The Influence of Patient Race and Activation on Pain Manag...	Shields et al.

Prefix:

Suffix:

Page: 435

Omit Author

Show Editor... Multiple Sources... Cancel OK

7. Adding in-text citations

Adding that in-text citation yields this:

There have been reports of racial disparities in the likelihood that a doctor will prescribe an opioid to a patient who has cancer (Hoffman et al., 2016). Recently increased attention has been given to understanding the factors that contribute to this disparity. One intriguing possibility is presented in the following succinct quote: “Physician-patient communication may contribute to disparities in cancer pain treatment” (Shields et al., 2019, p. 435).

7. Adding in-text citations

You can also cite multiple items to support the same claim. To do that, you will click Add/Edit Citation, click the Z in the box that appears, click Classic View, and then click the Multiple Sources button.

The screenshot shows a document editor with a text passage about racial disparities in cancer treatment. An 'Add/Edit Citation' dialog box is open, displaying a search results table. The table has columns for 'Title' and 'Creator'. The results include articles by Axson et al., Mikelyte et al., Hoffman et al., Minehart et al., and Shields et al. A yellow arrow points to the 'Multiple Sources...' button at the bottom of the dialog box.

There have been reports of racial disparities in the likelihood that a doctor would recommend a patient who has cancer (Hoffman et al., 2016). Recently increased attention has been given to understanding the factors that contribute to this disparity. One intriguing finding is a succinct quote: "Physician-patient communication may contribute to racial disparities in cancer treatment" (Shields et al., 2019, p. 435). Many recent studies have revealed that the race of the physician and the

Add/Edit Citation

Everything

Title	Creator
Characterizing opioid prescribing to adolescents at time of discharge	Axson et al.
Factors influencing trends in opioid prescribing for older people	Mikelyte et al.
I need to find several more articles about efforts to reduce the impact of racial bias in pain assessment and treatment recommendations	
Racial bias in pain assessment and treatment recommendations	Hoffman et al.
Racial/Ethnic Inequities in Pregnancy-Related Morbidity and Mortality	Minehart et al.
The Influence of Patient Race and Activation on Pain Management	Shields et al.

Prefix:

Suffix:

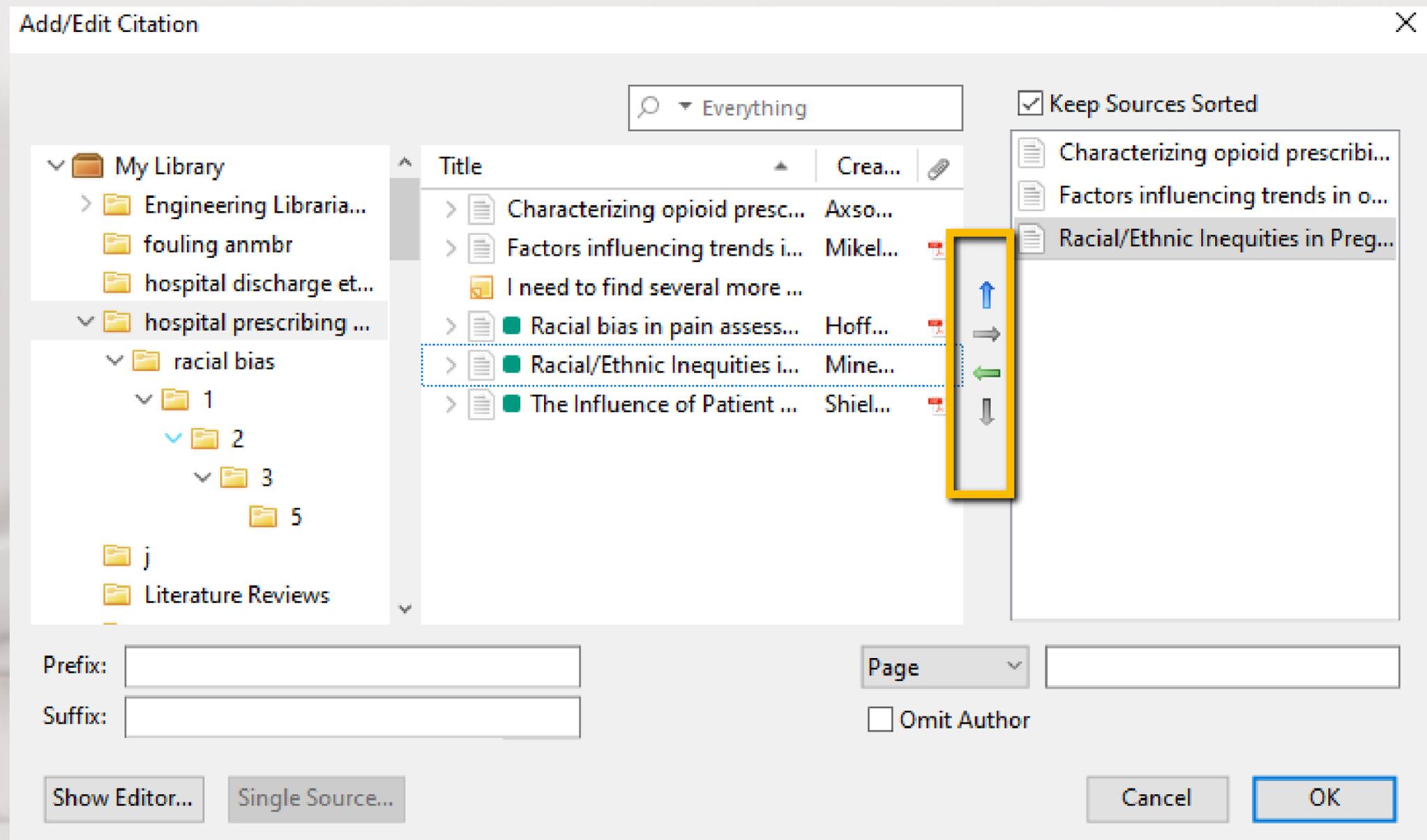
Page:

Omit Author

Show Editor... **Multiple Sources...** Cancel OK

7. Adding in-text citations

You will then see an interface with arrows you can use to create a list of the sources you want to cite to support that claim.



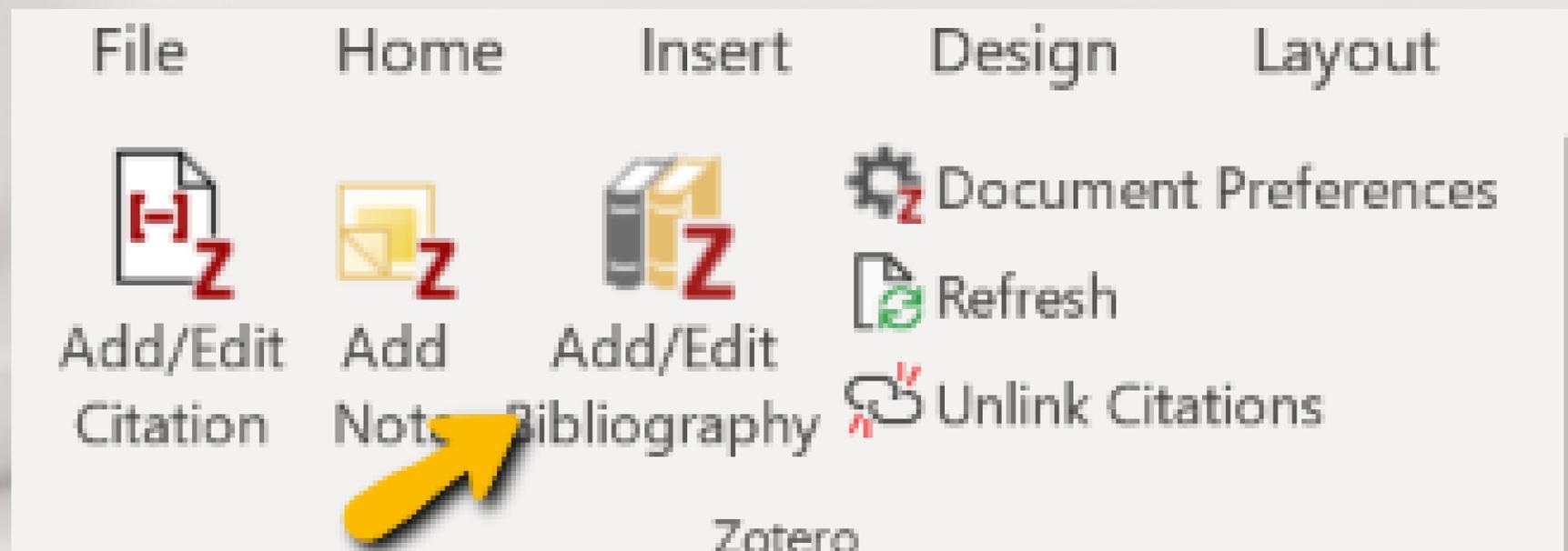
7. Adding in-text citations

After clicking OK, my paper will appear like this:

There have been reports of racial disparities in the likelihood that a doctor will prescribe an opioid to a patient who has cancer (Hoffman et al., 2016). Recently increased attention has been given to understanding the factors that contribute to this disparity. One intriguing possibility is presented in the following succinct quote: “Physician-patient communication may contribute to disparities in cancer pain treatment” (Shields et al., 2019, p. 435). Many recent studies have revealed that the length and quality of communication can be impacted by the race of the physician and the patient (Axson et al., 2022; Mikelyte et al., 2020; Minehart et al., 2021)

8. Creating a list of references

To create a list of references at the end of your paper, place your cursor at the point you want to insert the list. Then click Add/Edit Bibliography from the Zotero menu.



8. Creating a list of references

Doing so yields:

There have been reports of racial disparities in the likelihood that a doctor will prescribe an opioid to a patient who has cancer (Hoffman et al., 2016). Recently increased attention has been given to understanding the factors that contribute to this disparity. One intriguing possibility is presented in the following succinct quote: “Physician-patient communication may contribute to disparities in cancer pain treatment” (Shields et al., 2019, p. 435). Many recent studies have revealed that the length and quality of communication can be impacted by the race of the physician and the patient (Axson et al., 2022; Mikelyte et al., 2020; Minehart et al., 2021)

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Shields, C. G., Griggs, J. J., Fiscella, K., Elias, C. M., Christ, S. L., Colbert, J., Henry, S. G., Hoh, B. G., Hunte, H. E. R., Marshall, M., Mohile, S. G., Plumb, S., Tejani, M. A., Venuti, A., & Epstein, R. M. (2019). The Influence of Patient Race and Activation on Pain Management in Advanced Lung Cancer: A

9.

Warning

Zotero is not intelligent, it just uses rules to format citations from the metadata it finds. If the metadata is wrong (or missing), your in-text citations and references list will have errors.

It is essential to proof your in-text citations and references lists. If you see an error, it's best to go back into Zotero and correct it there. Then right click on the place in your document with the error, and select Update Field.

In the case of the reference list I just created, the last two entries have all the words in the title capitalized, which is not correct for APA Style.

10.

Help

If you run into any problems with Zotero or have questions about it, please reach out to me!

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