

Literature Review Research in STEM

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The University of Memphis

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Tuesday, July 11th, 2023

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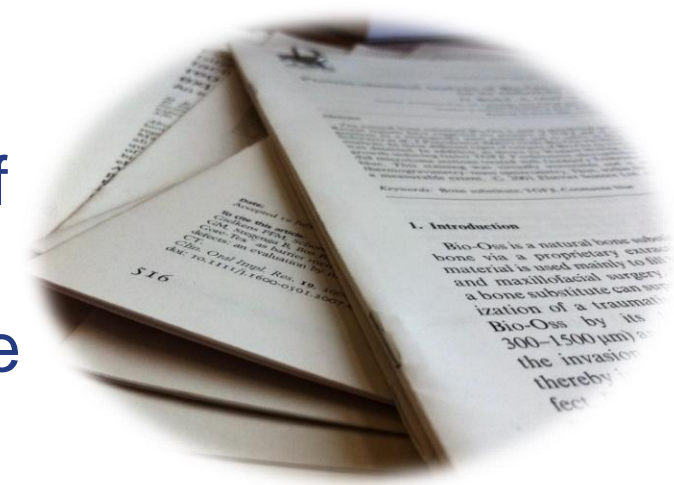
Objective of the session

At the end of the session, students will be able to

1. Understand the importance of the literature review
2. Set automatic Google alerts to track newly published work
3. Use UofM library resources to search bibliography
4. Identify Mendeley as a key for bibliography review, sharing, and citations

Why is Literature Review important to STEM research?

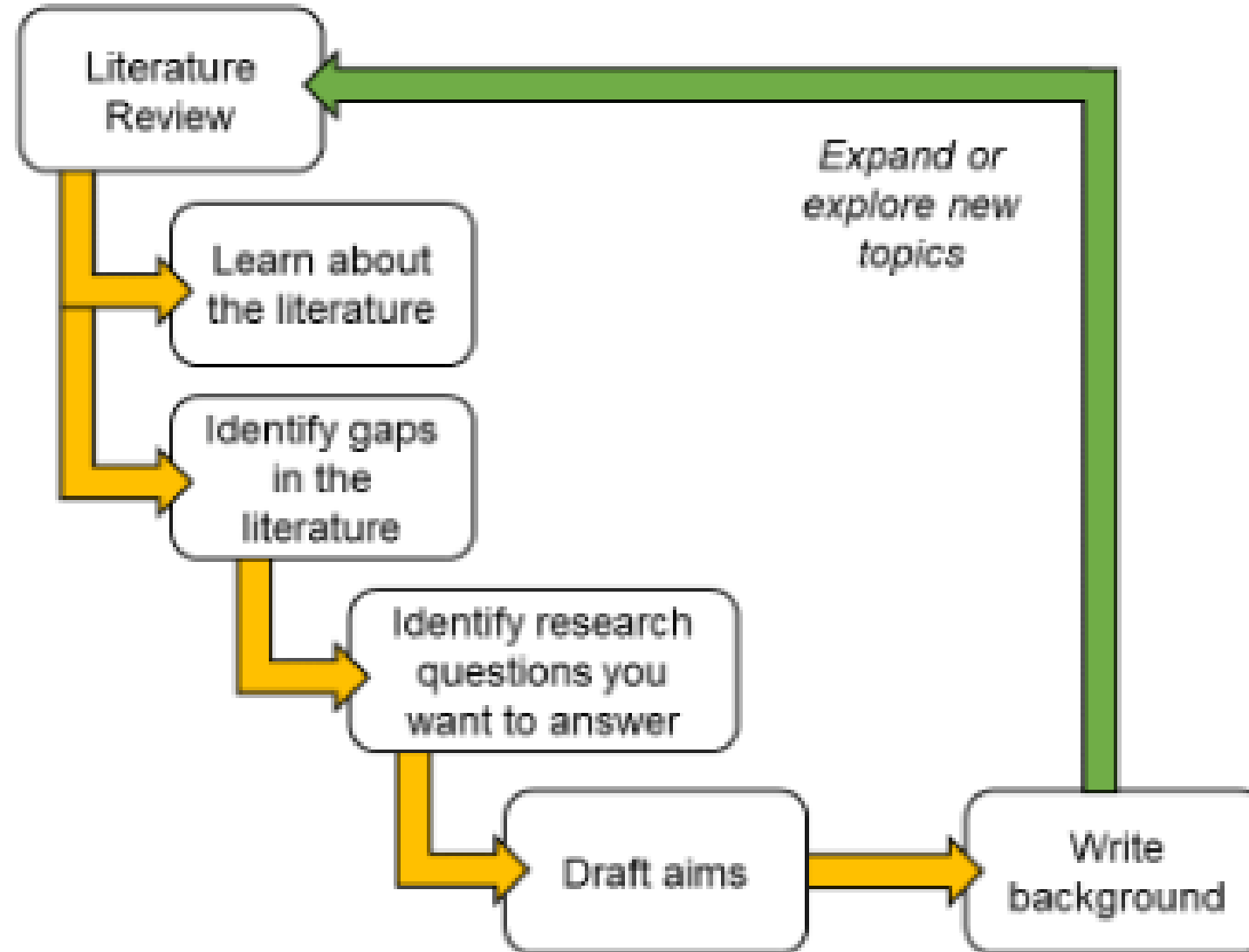
1. Research is carried out primarily to improve current knowledge
2. All research builds on prior/existing knowledge in the field
3. A literature review helps in familiarizing with the extent of knowledge in the field
4. The review should trace the progress of knowledge & the relation between various thoughts/methods/strategies
5. A literature review helps to identify gaps in knowledge, which lead to new research
6. The literature review helps to increase author's depth of knowledge in a field



QUIZ: True/False

1. Literature review helps establish a context for research
2. Literature review helps identify the theoretical framework
3. Literature review helps clarify research questions
4. Literature review helps assess the quality of previous research
5. Literature review helps comparing different studies
6. Literature review gives context to the research study
7. Literature review helps to identify problems
8. Literature review provides a map for future research

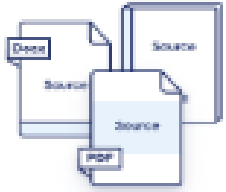
Purpose of Literature Review in Graduate School



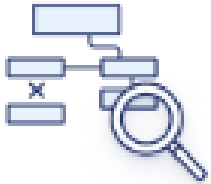
How to write a literature review?



STEP 1: Search for relevant literature



STEP 2: Evaluate sources



STEP 3: Identify themes, debates and gaps



STEP 4: Outline the structure

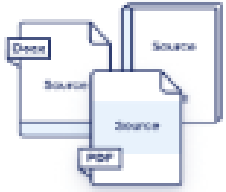


STEP 5: Write your literature review

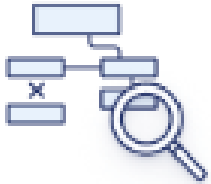
The Literature Review Process



TASK 1: Collect Articles



TASK 2: Read Literature



TASK 3: Summarize (Synthesize) State of Research



TASK 4: Identify Gaps



TASK 5: Suggest Next Steps = Innovation

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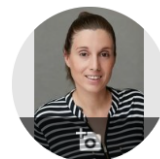
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Log on to scholar.google.com and click the “My Profile” link at the top of the page to get your account setup started.

On the first screen, add your affiliation information and OU email address, so Google Scholar can confirm your account. Add keywords that are relevant to your research interests, so others can find you when browsing a subject area. Provide a link to your OU faculty or lab homepage, if you have one.

If there are others who share your name, their articles may show up as yours at this point. Don't despair! Go ahead and add those articles, even though they're not yours. You will then have a chance to delete them in the next step (and as part of this week's homework).

Click “Next,” and – that's it! Your basic profile is done. Now, let's add some publications to it.



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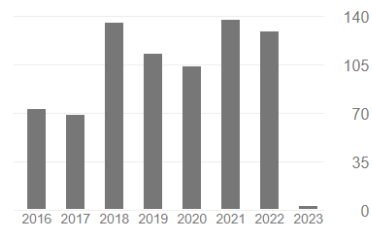
Off-axis digital holographic microscopy: practical design parameters for operating at diffraction limit 122 2014
E Sánchez-Ortiga, A Doblas, G Saavedra, M Martínez-Corral, ...
Applied optics 53 (10), 2058-2066

Digital holographic microscopy with pure-optical spherical phase compensation 98 2011
E Sánchez-Ortiga, P Ferraro, M Martínez-Corral, G Saavedra, A Doblas
JOSA A 28 (7), 1410-1417

Accurate single-shot quantitative phase imaging of biological specimens with telecentric digital holographic microscopy 90 2014
Al Doblas, E Sánchez-Ortiga, M Martínez-Corral, G Saavedra, ...
Journal of biomedical optics 19 (4), 046022

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1 **Widefield microscopy** for live imaging of lipid domains and membrane dynamics

Biochimica et Biophysica Acta (BBA) - Biomembranes, March 2011, ...

Guy Wheeler, Kevin M. Tyler

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2 Enzymatic studies on planar supported membranes using a **widefield** fluorescence LAURDAN Generalized Polarization imaging approach

Biochimica et Biophysica Acta (BBA) - Biomembranes, May 2017, ...

Jonathan Brewer, Henrik Seir Thoke, ... Luis A. Bagatolli

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3 **Thrombus formation: direct real-time observation and digital analysis of thrombus assembly in a living mouse by confocal and widefield intravital microscopy**

Journal of Thrombosis and Haemostasis, January 2003, ...

A. Celi, G. Merrill-Skoloff, ... B. Furie

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4 **Widefield** deconvolution epifluorescence **microscopy** combined with fluorescence in situ hybridization reveals the spatial arrangement of bacteria in sponge tissue

Journal of Microbiological Methods, April 2000, ...

Werner Manz, Gernot Arp, ... Joachim Reitner

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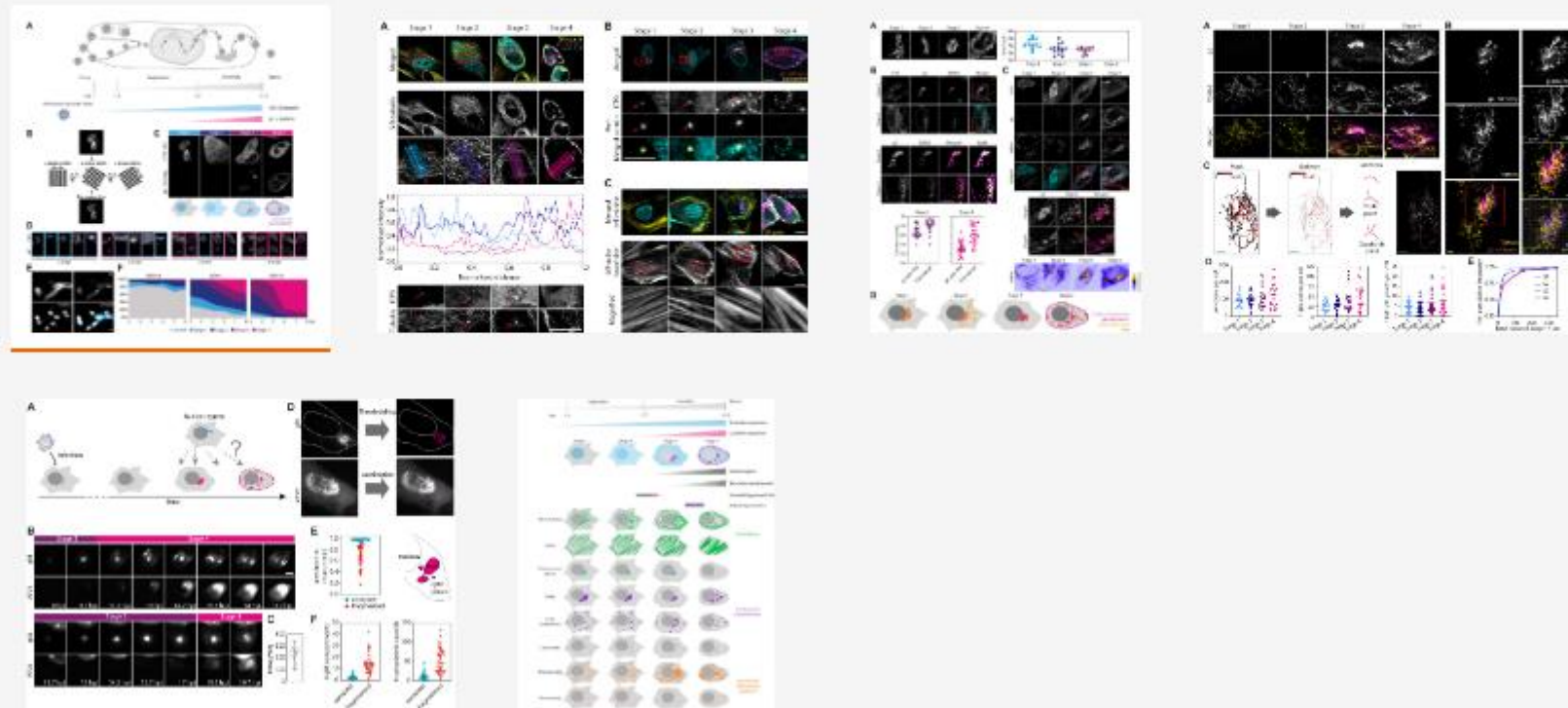
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10 A fluorescent reporter system enables spatiotemporal analysis of host cell modification during herpes simplex virus-1 replication

Journal of Biological Chemistry, 7 January 2021, ...

Katharina M. Scherer, James D. Manton, ... Clemens F. Kaminski

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Boolean operators and phrase search

- Boolean operators currently supported include AND, OR, NOT, and the hyphen (or minus symbol)
- Boolean operators must be entered in all uppercase
- The hyphen (or minus symbol) is interpreted as the NOT operator
 - Example: **black -hole** will return results containing 'black', but exclude any instances where 'hole' appears with it.
- Boolean precedence is as follows:
 1. NOT
 2. AND
 3. OR
- Parentheses can be used when nesting clauses so the grouping is clear and unambiguous
 - Example: Instead of searching **a OR b AND c OR d**
Please use **(a OR b) AND (c OR d)**
- Quotation marks can be used to specify terms which must appear next to each other
 - Example: **("heart attack" OR "myocardial infarction") AND diabetes NOT cancer**
 - The above example can be expressed more concisely as: **("heart attack" OR "myocardial infarction") diabetes -cancer**

Rules

- Punctuation is ignored in a phrase search. The searches **"heart-attack"** and **"heart attack"** return the same results.
- Plurals and spelling variants are included: **"heart attack"** includes **"heart attacks"**, **"color code"** includes **"colour code"**

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Character	Example
Spelling variations	Both British and American spelling variants are supported. A search for <i>colour</i> returns <i>color</i> , and vice versa
Greek letters and character equivalents	To search the Greek letter Ω , enter <i>omega</i> . This matches documents containing the word <i>omega</i> as well as the symbols Ω (uppercase omega) and ω (lowercase omega).
Subscript and superscript	Enter subscripted and superscripted characters on the same line as the other characters. To search for the chemical notation "H ₂ O," enter H ₂ O.
Accented characters	To search for the name <i>Fürst</i> , enter <i>Fürst</i> or <i>Furst</i> .
Non-alphanumeric characters	Characters such as bullets, arrows, daggers, and plus signs are ignored.

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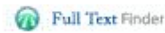
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In the last few decades, noble metal nanoparticles (MNP) have been widely used as **imaging** probes, in the field of bio-**imaging**, due to their localized surface plasmon resonance (LSPR) phenomenon. Compared to **fluorescent** probes, MNP **imaging** exhibits high sensitivity and outstanding signal-to-noise ratio, while the particle itself has good photostability; this makes the MNP probe the perfect candidate for long-term **imaging**. Currently the most popular MNP **imaging** and analysis method employs a dark-field microscope with a spectroscopy. Since most dark-field microscopes use halogen lamp or mercury lamp as their illumination source, the illumination intensity and wavelength spectrum are limited. Both camera and spectroscopy require longer exposure time to collect sufficient scattering signal to generate a reasonable quality image and scattering spectrum. The narrow illumination spectrum also limits the size of the MNP that can be used (larger-diameter MNP tend to scatter in the near-infrared region). Therefore, a high-intensity and wide-spectrum illumination source is urgently needed in MNP **imaging**. In this study, we custom-designed a multi-mode dark field microscope by using a supercontinuum laser, comprising of a lightsheet illumination mode for **widefield imaging** and a back focus mode for live spectrum analysis, as its illumination source. The total output of the supercontinuum laser was 2 W. Since it was a coherent illumination source it could be focused by the microscope objective to a near diffraction limit area for sufficient intensity. Moreover, since its wavelength spectrum was between 450 nm and 2200 nm, which covered most of the visible and near infrared region, it made the detection of the large-diameter MNP single particle possible. In the back-focus mode, the supercontinuum laser first passed through an annular filter and then entered the objective from the microscope back port. In the lightsheet illumination mode, the laser was focused by a 400- mm cylindrical concave mirror to create a "sheet" and illuminate the sample from its side. In both the illumination modes, the illumination radiation was blocked from the camera to obtain the dark field illumination effect. By using a multi-mode dark field microscope, we could observe a 30-nm-diameter MNP single particle with a color **CCD** camera in its lightsheet illumination mode and a spectrum time resolution of 1 ms in its back-focus illumination mode. This custom-designed microscope could not only be used to study the MNP single particle in living cells, but more importantly, its application could also be potentially extended to all the MNP-probe-based cell **imaging**.

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2013	An approach for characterizing and comparing hyperspectral microscopy systems	Annamdevula, N.S., Sweat, B., Favreau, P., (...), Rich,	Sensors (Switzerland)	32

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2 Laser emission based microscope	Fan, Xudong; Chen, Yu-Cheng; Chen, Qiushu (THE REGENTS OF THE UNIVERSITY OF MICHIGAN)	2022	United States Patent and Trademark Office Granted Patent	US11536659
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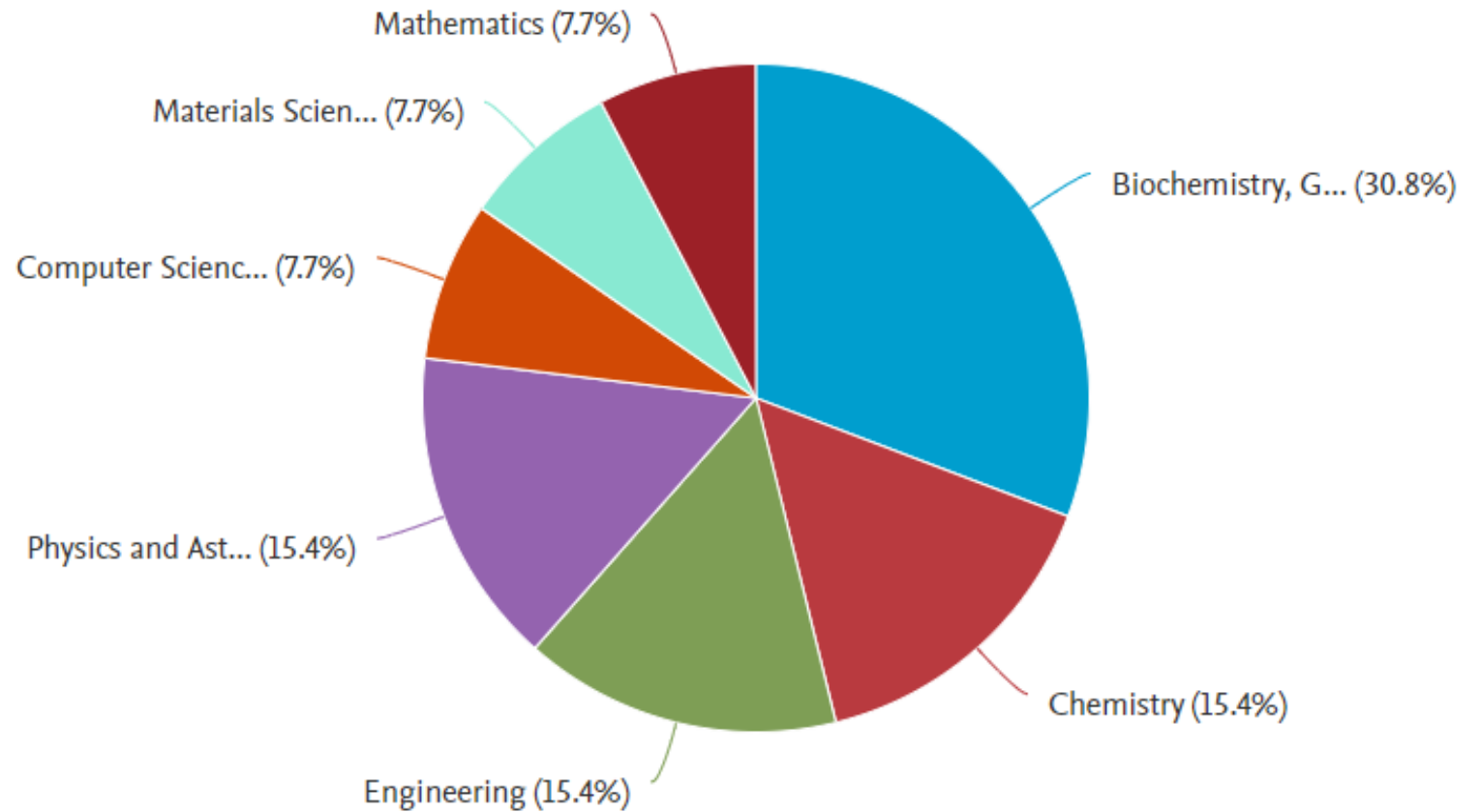
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Mendeley is a desktop and web program produced by Elsevier for:

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- ❖ Discovering research data
- ❖ Collaborating online

Mendeley is freely available

Mendely supports any operating system (Windows, Mac OS and Linux)

Mendeley has two applications

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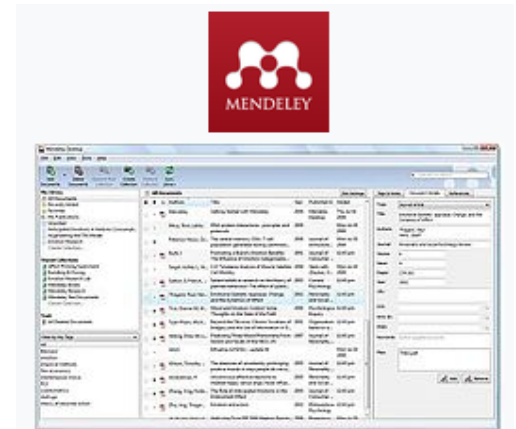


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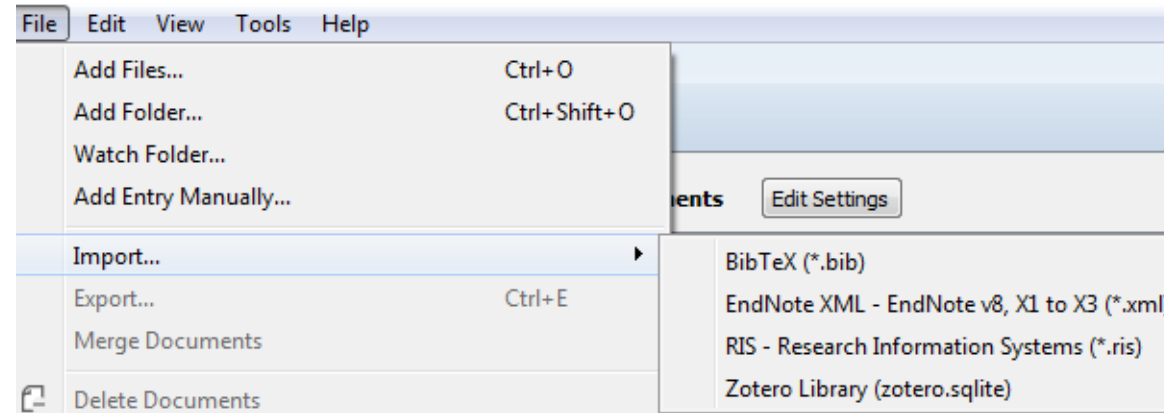
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(Mendeley Desktop)

Original author(s)	Mendeley Ltd.
Developer(s)	Elsevier
Initial release	August 2008
Stable release	1.16.1 / 2016
Operating system	Cross-platform
Available in	English
Type	Reference management software, social software for academic research
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What can one do with Mendeley?

Mendeley's strengths:

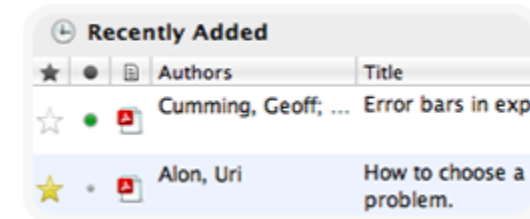
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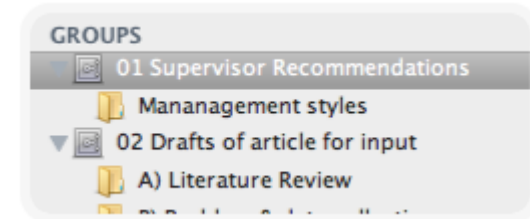
✓ Ability to share references with other Mendeley users

Create collaborative groups and share papers with notes.

The group can be completely open or a closed group

Collaborate

Connect with colleagues and securely share your papers, notes and annotations.



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✓ Ability to create bibliographies using a specific format and 'cite while you write'

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Mendeley's strengths:

✓ Virtual cloud

Documents are saved in a virtual server which creates a security copy to avoid any loss of information if your computer fails.
You can access to the cloud using any browser

✓ Network and Discover

International social media

Backup, Sync and Mobile

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Network and Discover

Discover papers, people and public groups.



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Choose the version for your operating system



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Mendeley Desktop for Linux

In your Mendeley account

The screenshot displays the Mendeley user interface. At the top, there is a navigation bar with tabs for Feed, Library, Suggest, Stats, Groups, Datasets, Careers, and Funding. A search bar and a user profile icon (Ana AD) are also present. On the left, a sidebar lists navigation options: All news, New publications, Groups, tunable 2D-SIM, and a link to join or create a group. The main content area is divided into three sections: 1. A post creation area with options to attach documents or images, a text input field with a placeholder 'Share a post... use @ to mention someone', and a 'Post' button. 2. A 'People suggested for you' section featuring two profiles: Jessica Barrick (University of North Carolina at Cha..) and Charles Clark (Joint Quantum Institute). 3. An 'Articles suggested for you' section with a lightbulb icon, listing articles related to a document read 5 days ago, such as 'fastSIM: a practical implementation of fast structured illumination microscopy' and 'DMD-based LED-illumination Super-resolution and optical sectioning microscopy'.

In your Mendeley account



Feed

Library

Suggest

Stats

Groups

Datasets

Careers

Funding

Search



Ana

AD



All news

Feed tab: contain Newsfeed and updates from people you name as contacts, or groups of which you are a member. It also suggests articles.

Attach documents Attach images

AD Share a post... use @ to mention someone

Followers

Post

People suggested for you



Jessica Barrick

University of North Carolina at Cha..

Follows you

Follow +



Charles Clark

Joint Quantum Institute

Popular in Physics and Astronomy

Follow +



Articles suggested for you related to the document you read 5 days ago:

fastSIM: a practical implementation of fast structured illumination microscopy

DMD-based LED-illumination Super-resolution and optical sectioning microscopy

Dan D., Lei M., Yao B., et.al.

Scientific Reports (2013)

In your Mendeley account

References which you save to Mendeley will be available under the **Library tab** (*initially your library will be empty until you begin to add references*)

Feed **Library** Suggest Stats Groups Datasets Careers Funding

Library search Ana AD

MY LIBRARY

- All D
- Favo
- My P
- Rece
- Rece

FOLDERS

- Create Folder...

<input type="checkbox"/>	<input type="checkbox"/>	Off-axis Dig Export to MS Word	Microscopy: practical design parameters for operating...	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	ra G, et. al. in App. Opt. (2013)	Microscopy: practical design parameters for operating ...	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	ra G, et. al. in Appl. Opt. (2014)	Microscopy: practical design parameters for operating ...	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	lographic microscopy for quantitative phase-contras...	lographic microscopy for quantitative phase-contras...	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	ínez-Corral M, et. al. in 2011 10th Workshop on Information Optics, ...	ínez-Corral M, et. al. in 2011 10th Workshop on Information Optics, ...	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	tion in off-axis digital holographic microscopy	tion in off-axis digital holographic microscopy	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	z-Corral M, et. al. in Optics Communications (2015)	z-Corral M, et. al. in Optics Communications (2015)	10/07/15
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Shift-variant digital holographic microscopy: inaccuracies in quantitative phase im...	Shift-variant digital holographic microscopy: inaccuracies in quantitative phase im...	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Doblas A, Sánchez-Ortiga E, Martínez-Corral M, et. al. in Opt. Lett. (2013)	Doblas A, Sánchez-Ortiga E, Martínez-Corral M, et. al. in Opt. Lett. (2013)	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Axial resonance of periodic patterns by using a Fresnel biprism.	Axial resonance of periodic patterns by using a Fresnel biprism.	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Doblas A, Saavedra G, Martínez-Corral M, et. al. in Journal of the Optical Society of America. A, Optics, i...	Doblas A, Saavedra G, Martínez-Corral M, et. al. in Journal of the Optical Society of America. A, Optics, i...	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Physical compensation of phase curvature in digital holographic microscopy by us...	Physical compensation of phase curvature in digital holographic microscopy by us...	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Doblas A, Hincapie-Zuluaga D, Saavedra G, et. al. in Applied Optics (2015)	Doblas A, Hincapie-Zuluaga D, Saavedra G, et. al. in Applied Optics (2015)	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Confocal scanning microscope using a CCD camera as a pinhole-detector system	Confocal scanning microscope using a CCD camera as a pinhole-detector system	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Sanchez-Ortiga E, Saavedra G, Martínez-Corral M, et. al. in 2011 10th Euro-American Workshop on Infor...	Sanchez-Ortiga E, Saavedra G, Martínez-Corral M, et. al. in 2011 10th Euro-American Workshop on Infor...	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Shift-variant digital holographic microscopy: inaccuracies in quantitative phase im...	Shift-variant digital holographic microscopy: inaccuracies in quantitative phase im...	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Doblas A, Sánchez-Ortiga E, Martínez-Corral M, et. al. in Optics letters (2013)	Doblas A, Sánchez-Ortiga E, Martínez-Corral M, et. al. in Optics letters (2013)	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Off-axis digital holographic microscopy: practical design parameters for operating ...	Off-axis digital holographic microscopy: practical design parameters for operating ...	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Sánchez-Ortiga E, Doblas A, Saavedra G, et. al. in Applied Optics (2014)	Sánchez-Ortiga E, Doblas A, Saavedra G, et. al. in Applied Optics (2014)	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Accurate single-shot quantitative phase imaging of biological specimens with tele...	Accurate single-shot quantitative phase imaging of biological specimens with tele...	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Doblas A, Sánchez-Ortiga E, Martínez-Corral M, et. al. in Journal of Biomedical Optics (2014)	Doblas A, Sánchez-Ortiga E, Martínez-Corral M, et. al. in Journal of Biomedical Optics (2014)	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Subtractive imaging in confocal scanning microscopy using a CCD camera as a d...	Subtractive imaging in confocal scanning microscopy using a CCD camera as a d...	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Sánchez-ortiga E, Sheppard C, Saavedra G, et. al. in Optics Letters (2012)	Sánchez-ortiga E, Sheppard C, Saavedra G, et. al. in Optics Letters (2012)	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Digital holographic microscopy with pure-optical spherical phase compensation.	Digital holographic microscopy with pure-optical spherical phase compensation.	10/07/15
<input type="checkbox"/>	<input type="checkbox"/>	Sánchez-Ortiga E, Ferraro P, Martínez-Corral M, et. al. in Journal of the Optical Society of America. A, O...	Sánchez-Ortiga E, Ferraro P, Martínez-Corral M, et. al. in Journal of the Optical Society of America. A, O...	10/07/15

Details Notes

Journal Article Edit

Shift-variant digital holographic microscopy: inaccuracies in quantitative phase imaging

Doblas A, Sánchez-Ortiga E, Martínez-Corral M, Saavedra G, Andrés P, García-Sucerquia J

Opt. Lett.
2013 vol: 38 (8) pp: 1352-1354

Inaccuracies introduced in quantitative phase digital holographic microscopy by the use of nontelecentric imaging systems are analyzed. Computer modeling of the experimental result shows that even negligible errors in the radius and center of curvature of the numerical compensation needed to get rid of the remaining quadratic phase factor introduce errors in the phase reconstruction. These errors depend on

[more](#)

ISSN 1539-4794
PMID 23595482

URLS
ol.osa.org/abstract.cfm?URI=ol-38-8-1352

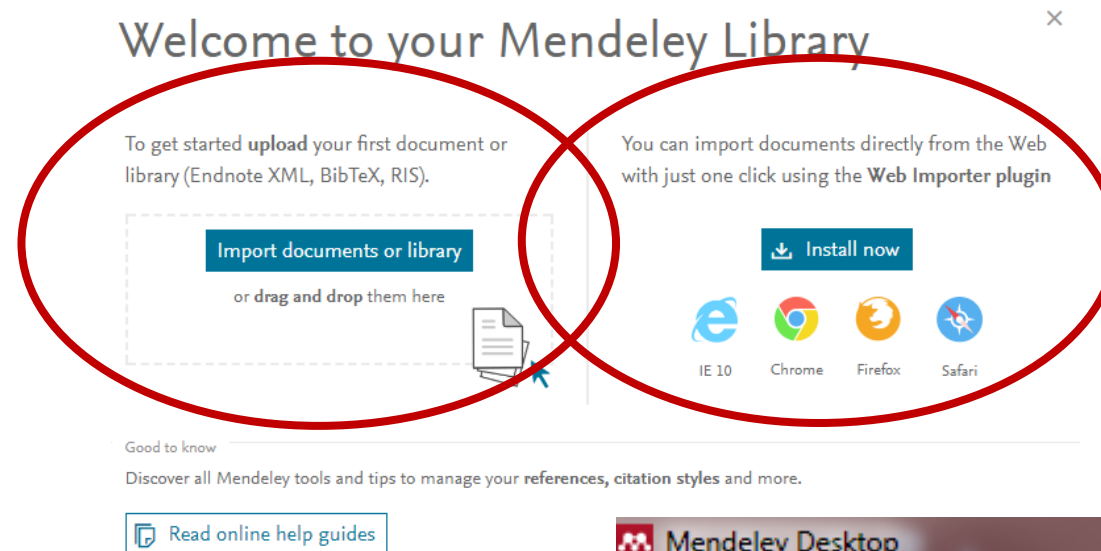
Click or drag file here

Add references to your Web Library

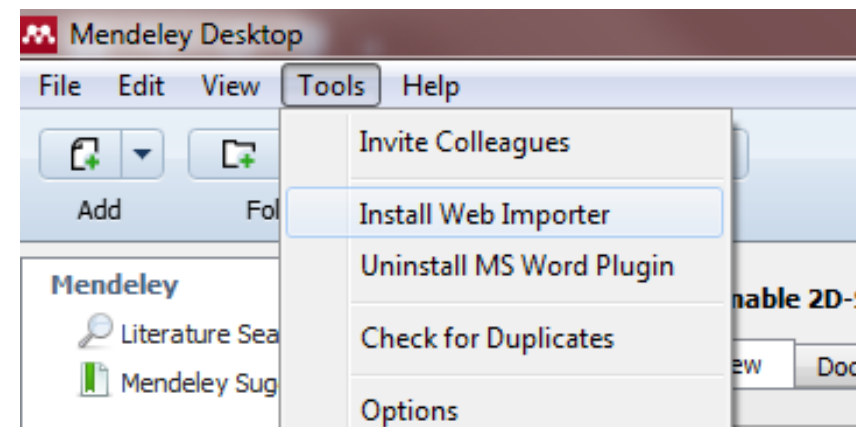
Using the Web Importer to 'capture' references

One of the great features of web-based bibliographic software is being able to quickly 'grab' the reference you're looking at online in a couple of clicks, by installing a web importer plugin or **bookmarklet** into your browser.

To install the Web Importer, click on the 'Library tab' and you will see an "Install now" option within the welcome box.



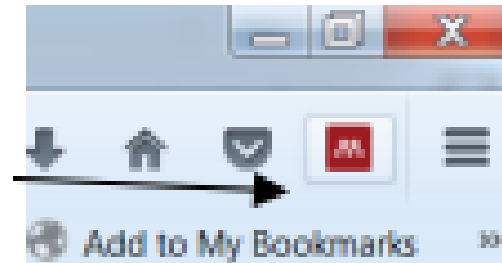
If you have missed this window, you can install it from the **Mendeley Desktop**



Add references to your Web Library

Using the Web Importer to 'capture' references

Once installed, you will see a red and white Mendeley Web Importer button at the top right of your browser.



Now you can import references from all sorts of sites. The Web Importer will scan your current browser window for references and present you with its findings. Note that some reference details might not be complete.

Web Importer works well for:

Google Scholar

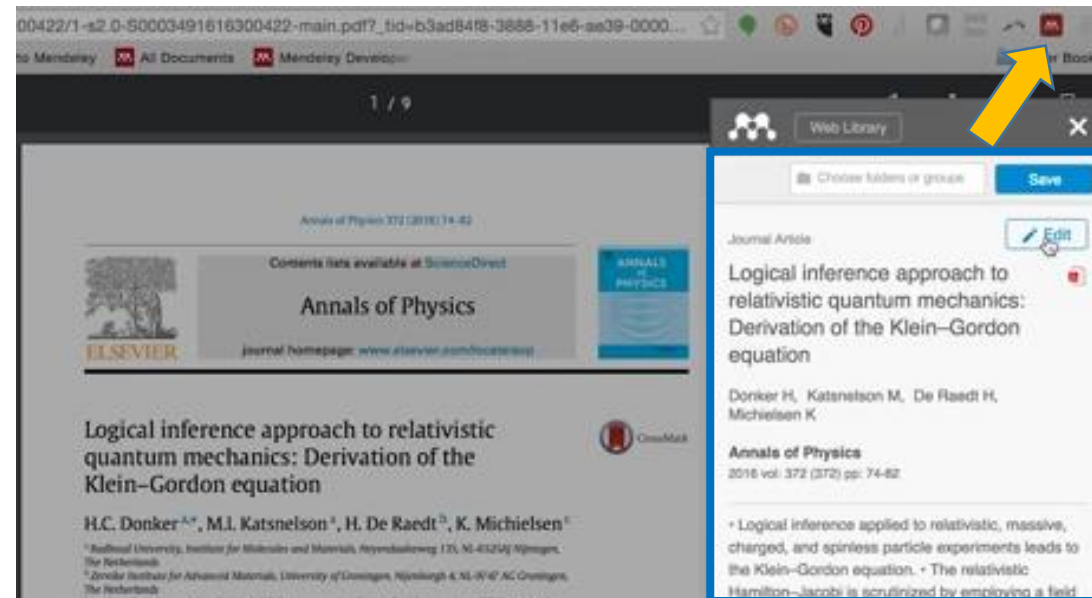
PubMed

Medline or Embase via OvidSP

Web of Science

Scopus

Journals' websites



Things to check:

*Is the record complete?
Has it imported the full text paper (PDF)?*

Add references to your Web Library

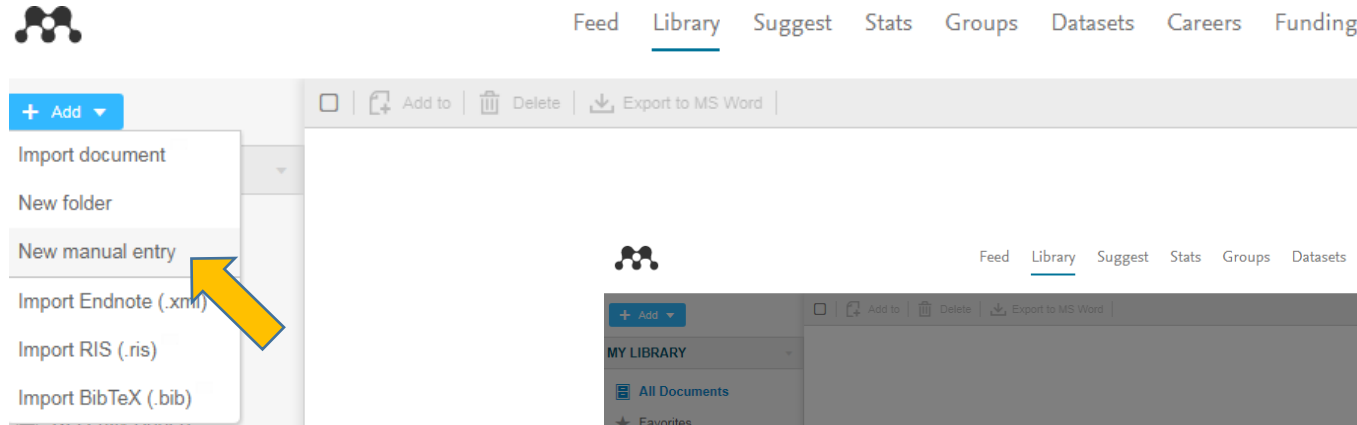
Using the Web Importer to 'capture' references Example

The screenshot shows a web browser window with a search bar at the top containing "James C. Wyant - Zern...". Below the search bar are several utility links: "Comenzar a usar Firefox", "Amazon", "eBay", "Galería de Web Slice", "Juegos WildTangent", "Sitios sugeridos", and "Save to Mendeley" (highlighted with a red box). The main content area displays the PubMed page for the article "Visual acuity in simple myopic astigmatism: influence of cylinder axis." by Remón L, Tornel M, and Furlan WD. The article's abstract, purpose, methods, results, and conclusions are visible. A Mendeley Web Importer overlay is positioned on the right side of the page, showing "1 article found" and a "Saved" button. The article title and authors are listed in the overlay, along with a "View in Mendeley Desktop" button. The PMID 16699444 is noted at the bottom of the page.

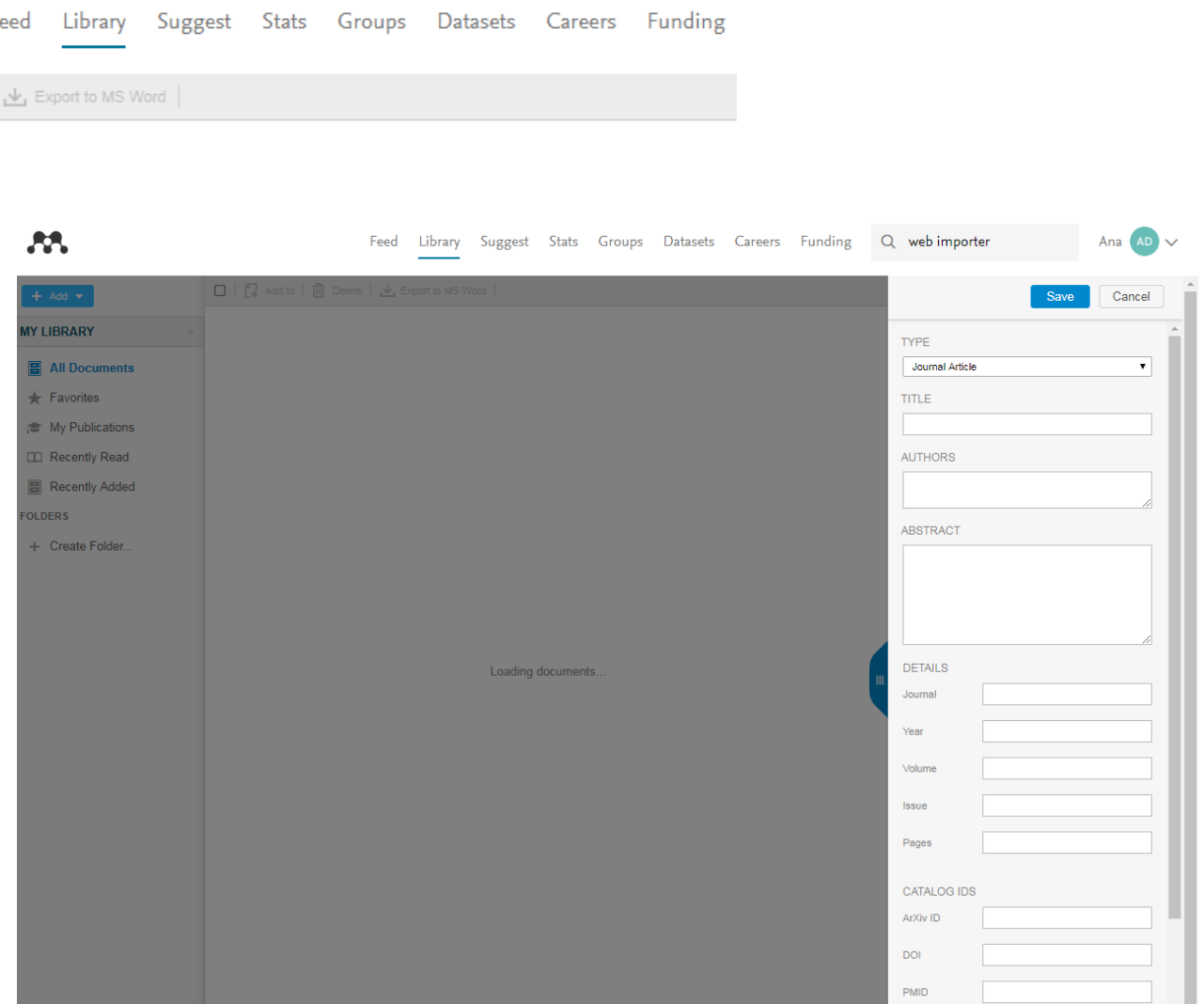
Add references to your Web Library

Manually adding references

You can add details of references manually by clicking on the **Add** button (top left of your library) and then selecting “New manual entry.”



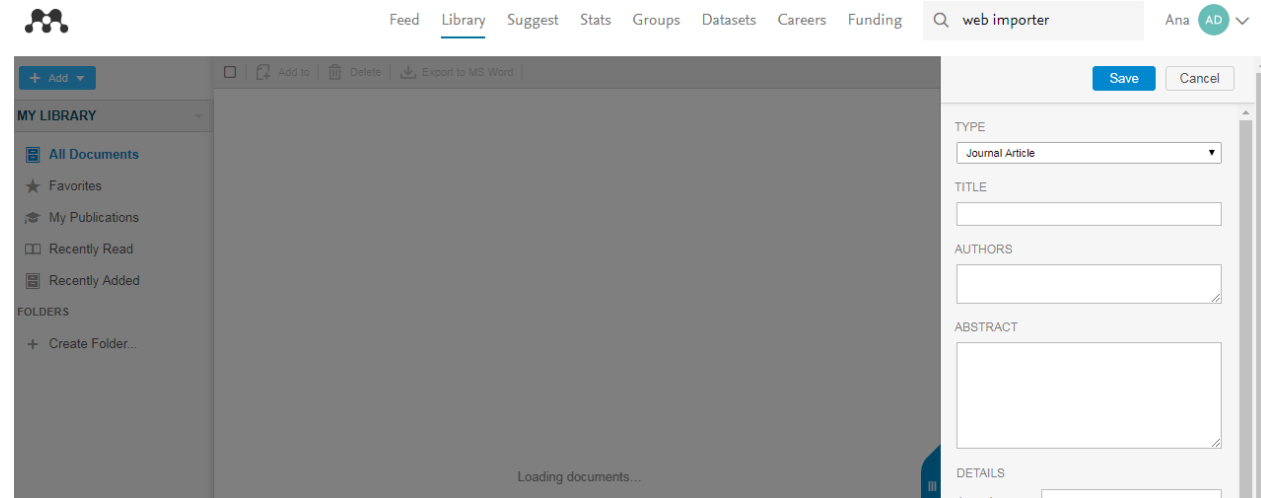
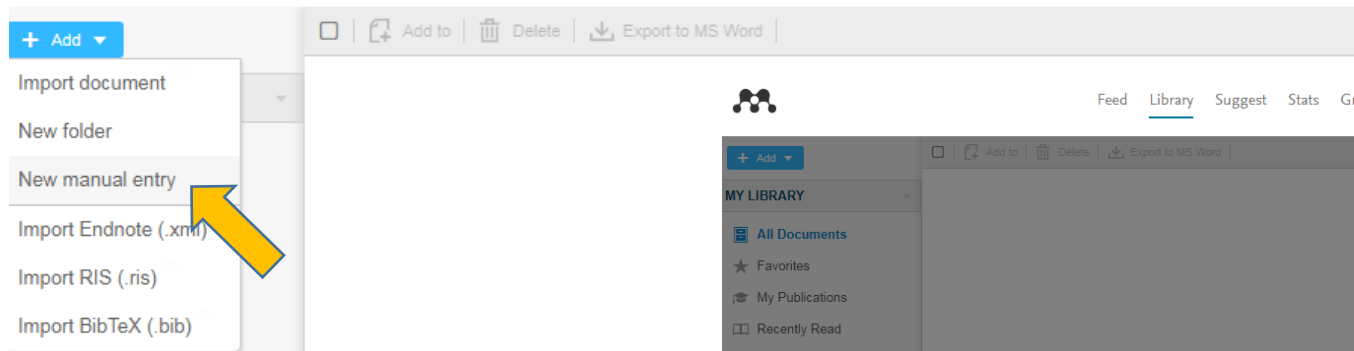
A template for you to fill in appears on the right



Add references to your Web Library

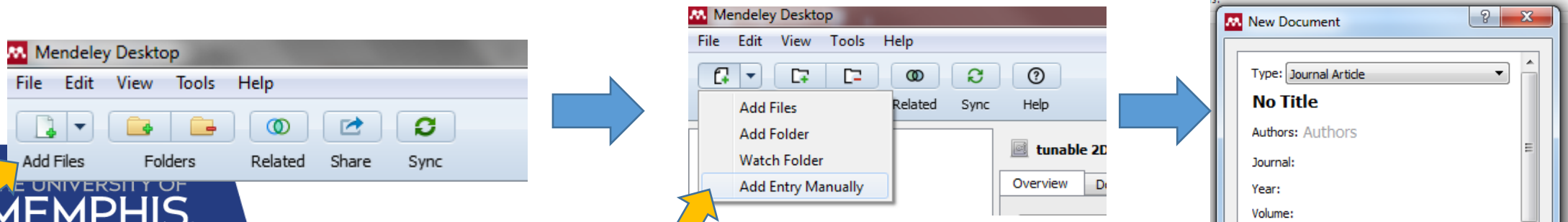
Manually adding references

You can add details of references manually by clicking on the **Add** button (top left of your library) and then selecting “New manual entry.”



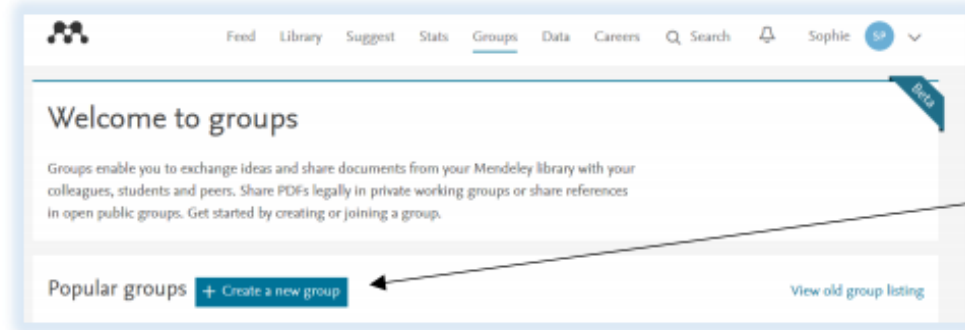
A template for you to fill in appears on the right

This option can also be done using **Mendeley Desktop**. Also a new window will appear to fill the information



Sharing references and groups

Web-based reference management software means researchers can easily share libraries for a joint project. This is usually achieved by setting up a group within the program and then inviting colleagues to join. In Mendeley you can start your own groups or join existing groups.



You can create a group by going to the **Groups** tab and clicking on **Create a new group**

Create new group

Name your group

Describe your group

Choose a discipline

Public

Open discussion and reference sharing.

Invite-only

Public group – but only approved members can post.

Private

Closed discussion and sharing of PDF files.

Cancel

Create

You can create three levels of groups:

- **Private** – create a private group allowing you to share full text PDFs and notes
- **Invite only** – this group is publically available to view, but only invited members can join and share references. You cannot share full-text PDF files
- **Public** – anyone can join and share references

NOTE: With a free account you can only create **one private or invite only group with a maximum of 3 members**. You can however have as many Public Groups as you like. Once you've made a group, you **cannot change the level of group** from Private to Public, nor vice versa.

Mendeley Data

For Literature reviews

Feed Library Suggest Groups Datasets Careers Funding Ana AD

Find Research Data My Datasets New Dataset FAQ

Discover Mendeley Data

Store, share, publish and find research data

[Create a Dataset](#)

Find research data

Search **9.8 million** datasets from domain-specific and cross-domain repositories

Find Research Data

Or try: chip-seq drosophila, late quaternary sediment core or qubit oscillator frequency

Mendeley Career

For finding a job position

The screenshot displays the Mendeley Careers website interface. At the top, a navigation bar includes links for Feed, Library, Suggest, Groups, Datasets, **Careers** (highlighted with a yellow arrow), Funding, Search, and a user profile dropdown. Below this is a secondary navigation bar with links for Saved & Applied, Find a Position, Academic Positions, All Employers, Career Advice, and a Post a job button. The main content area features a large banner with the text "Search 203,849 science and technology jobs on Mendeley Careers". Below the banner is a search filter section with input fields for "e.g. Biomedical Science", "Any location" (with a location pin icon), and "Within 20 miles" (with a dropdown arrow), followed by a red "Search" button. The lower section contains two promotional cards: "Get job alerts" with an envelope icon and a "Set up alert >" button, and "Upload your CV" with a document icon and an "Upload now >" button.

Mendeley Funding

For finding funding opportunities

Feed Library Suggest Groups Datasets Careers Funding Search Search Ana AD

Discover Find opportunities Browse funders Favorite opportunities

**Looking for your next funding opportunity?
Search our index of 19,643 possibilities.**

We collect information from 3,333 funders to bring you the latest, most relevant funding opportunities.

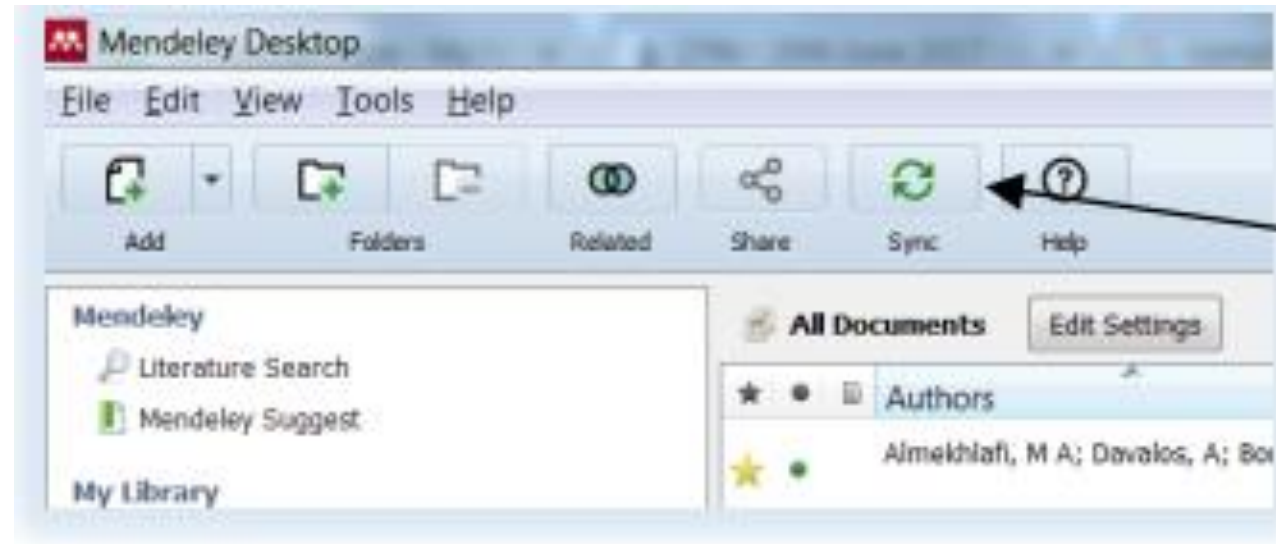
Search for funding opportunities

Mendeley Desktop

Synchronizing your library

When you first go into Mendeley Desktop, it will automatically synchronize with the Web version and add any new references you have added. If you use the Web version whilst the desktop version is open, you can tell it to synchronize by clicking on the Sync open.

If you make changes in your Desktop Library, it is important to remember to sync your library so that any changes are fully saved.



Mendeley Desktop: Main window

The screenshot shows the Mendeley Desktop interface with several key areas highlighted by red and orange boxes and labeled with text:

- MENU BAR:** Located at the top left, containing File, Edit, View, Tools, and Help.
- SHORTCUTS:** A row of icons below the menu bar for Add Files, Folders, Related, Share, and Sync.
- YOUR OWN LIBRARY:** A green label pointing to the 'My Library' sidebar on the left, which shows a folder structure including 'Papeles', 'SUCIO', and several 'Tesis_cap' folders.
- YOUR GROUPS:** A green label pointing to the 'Groups' section in the sidebar, showing a group named 'University of Valencia Private Vision Pr...'. Below it is a 'Filter by Authors' list.
- SEARCH:** A green label pointing to the 'Filter by Authors' list in the sidebar.
- WHOLE LIST OF REFERENCES:** A red label pointing to the central table of references. The table has columns for Authors, Title, Year, Published In, and Added. One row is highlighted in orange.
- REFERENCE DETAILS:** An orange label pointing to the right-hand pane, which displays the details for the selected reference, including its type (Journal Article), title, authors, journal information, and abstract.

Authors	Title	Year	Published In	Added
11978:2000, ISO	Ophthalmic optics -- Contact lenses and contact lens care products -- Information supplied by the manufact...	2000		18/01/12
11980:2009, ISO	Ophthalmic optics -- Contact lenses and contact lens care products -- Guidance for clinical investigations	2009		18/01/12
18369-3:2006, ISO	Ophthalmic optics -- Contact lenses -- Part 3: Measurement methods	2006		18/01/12
9342-2:2005, ISO	Optics and optical instruments -- Test lenses for calibration of focimeters -- Part 2: Test lenses for focim...	2005		18/01/12
Alda, Javier; Rico-García...	Diffractive performance of square Fresnel zone plates	2009	Optics Communications	08/01/13
Amaral, Felipe T; Monteir...	Alternative methodology for intraocular lens characterisation.	2013	Ophthal Physiol Opt	24/09/13
American National Stand...	American National Standard for Ophthalmics -- Intraocular Lenses. ANSI Z80.7	2002		04/09/12
Andersen, Geoff	Large optical photon sieve	2005	Optics Letters	08/01/13
Appicata, Optica	Retinal images in optomechanical eye model with monofocal intraocular lens	2011		22/12/11
Application, European Pa...	* EP001380252A2 *	2004		14/09/13
Article, Original	Tolerancing and Budget in Design and	2003	Optometry and Vision Science	03/04/12
Article, Original	Visual Performance of Subjects Wearing	2006		04/09/12
Article, Original	Comparison of Multifocal and Monovision Soft Contact Lens Corrections in Patients With Low-	2006		03/10/12

Mendeley Desktop

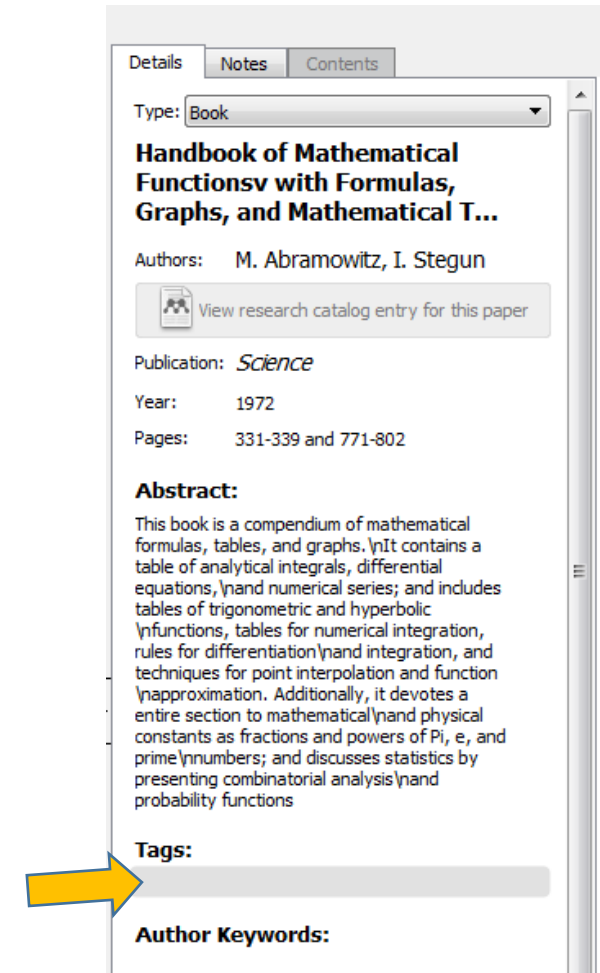
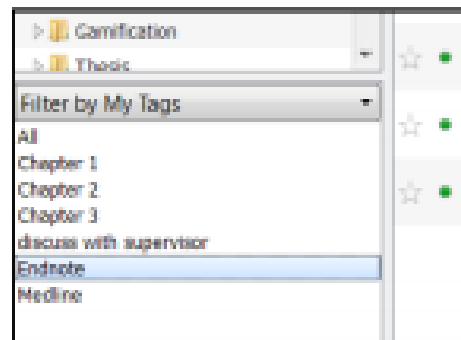
Tagging your library

Tagging is a popular way of adding labels to items – this helps describe the content but could also be used to identify the source or intended purpose of particular items.

You can add descriptive tags to records you've added to your library from within the Desktop version by editing the Tags field in the record (Details tab).

You can add tags in the same way in the web version of the library, too.

To search your library for articles with a particular tag, simply choose to “Filter by My Tags” in the left hand drop-down menu and select the appropriate tag



Mendeley Desktop

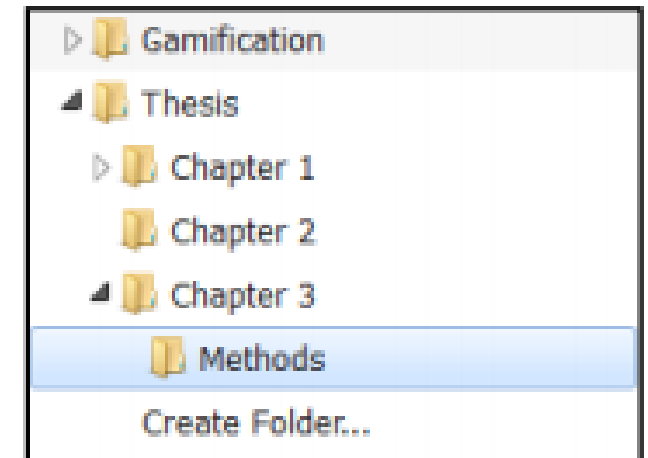
Organization of your library

Another way to organize your references is to put them into **Folders**, rather like organizing your files in My Computer, or your emails.

You can ‘drag and drop’ references from ‘all documents’ into a folder. The references will also remain in ‘all documents’ folder – if you removed a reference from a folder, the reference can still be found under ‘all documents.’ Tagging is a popular way of adding labels to items – this helps describe the content but could also be used to identify the source or intended purpose of particular items.

You can build multiple levels of folders in a hierarchical structure (create subfolders)

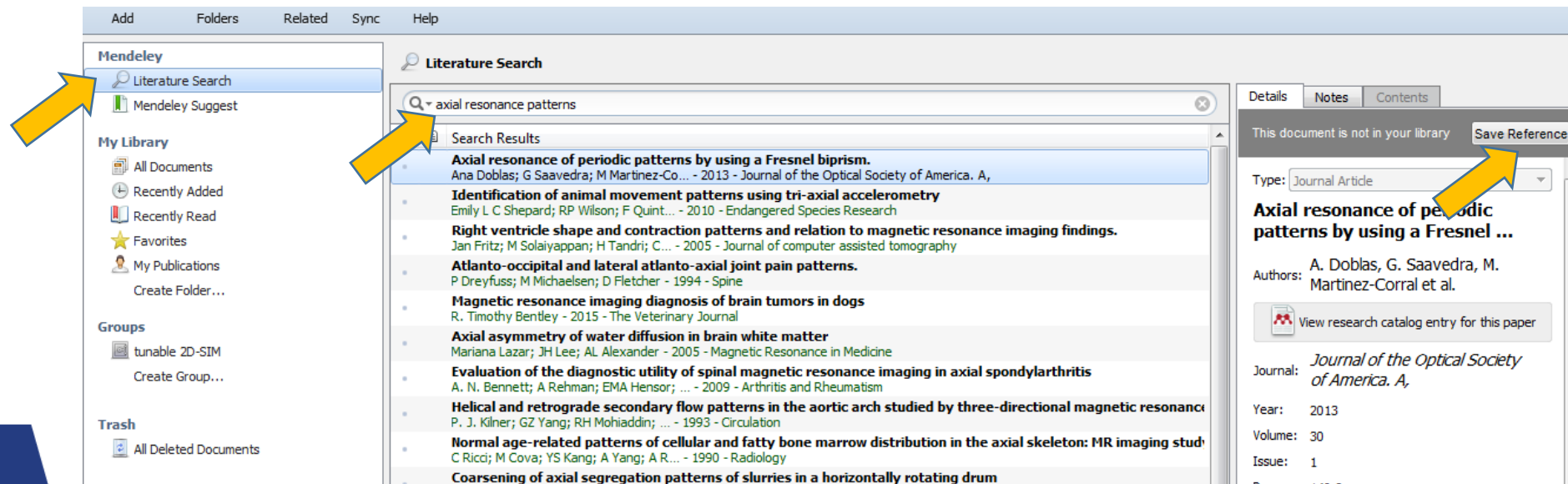
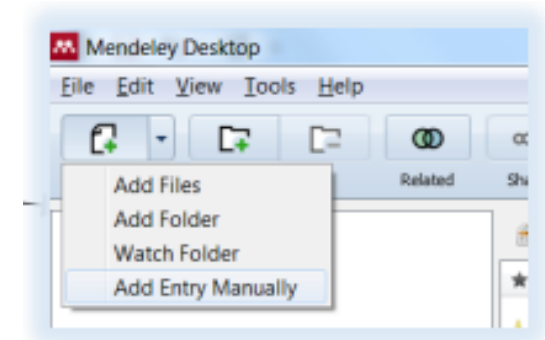
Note: to keep your references organized, it’s important to ensure you have removed any duplicate references. To use the Mendeley’s tool, select “**All Documents**” (towards the top of the left panel hand panel). Click on the **Tools** menu and select **Check for duplicates**. Sets of duplicates will then be shown. Each set shows what your duplicate documents will look like once merged. Using the checkbox next to the document details in the right-hand panel, you can select the details that you would like to keep from each of the documents. Click **merge** to keep one merged entry in your library, containing the complete document details



Mendeley Desktop

Adding references to your desktop library

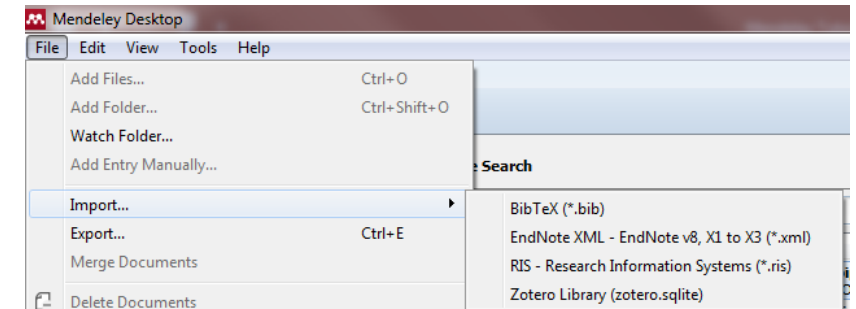
- Manually adding references
- Adding a reference from Mendeley's research catalog
 - Use the 'Literature Search' option (left hand side of the screen) to search for articles in Mendeley's research catalog. Click on a reference to view full details in the right-hand panel. From here you can link to the research catalog on the Web, or click on "Save Reference" to add it to your library (you can also 'drag and drop' the reference into the desired folder)



Mendeley Desktop

Adding references to your desktop library

- Adding references from another reference management package (EndNote, Reference Manager, Zotero or BibTeX)
Go to the **File** menu, then **Import** and select the appropriate option



- Direct export from online databases (recommended when you are working with large numbers of search results)

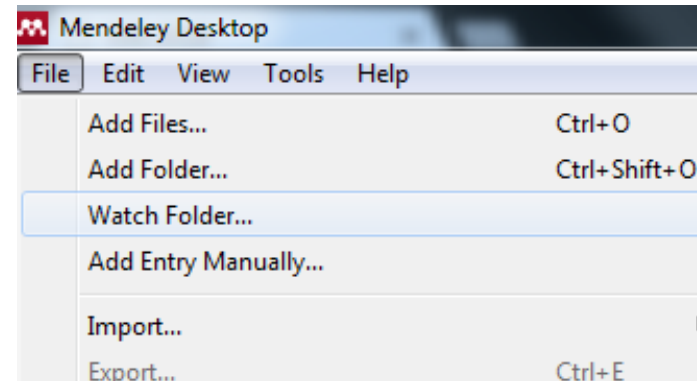
Scopus	<ul style="list-style-type: none"> • Select the references you wish to export and click on Export • Select Save to Mendeley. Your references will be imported into your online Mendeley library. You will need to <u>synchronise your library</u> to see the references in Mendeley Desktop.
Web of Science Core Collection	<ul style="list-style-type: none"> • Ensure you are in Web of Science Core Collection (the other Web of Science databases cannot be directly exported into Mendeley). • Select the references you wish to export. • From the drop down list at the top of your search results, change the default export option from Save to Endnote online, to Save to Other File Formats. • Select the fields you wish to include, change the File Format to BibTeX and click Send. <p>On a personal computer/laptop:</p> <ul style="list-style-type: none"> • Choose open and select Mendeley Desktop as the application with which to open the file. <p>If this doesn't work then follow the instructions as per those for OvidSP when using Desktop@UCL computers:</p> <ul style="list-style-type: none"> • Save the Bib file and remember its location. • In Mendeley Desktop go to File > Import > BibTeX and navigate to the correct Bib file to import the references into your library.
PubMed	<ul style="list-style-type: none"> • Select the references to export • Select Send to then Choose the destination Citation manager and click on Create file. • Save the nBiB file (it may save to your downloads folder). • In Mendeley Desktop go to File > Import > BibTeX and navigate to the where the PubMed nBiB file was saved. • Change the file type from BibTeX to All supported formats. This will allow you to locate the NBiB file. • Open the nBiB file.

Mendeley Desktop

Adding PDF documents

There are three ways to add the PDFs to your library

- **Drag and drop** – Open up the folder where you have your PDFs and display it so you can see your Mendeley Desktop (or website) library behind it. Click on one of the PDFs and drag it into the references pane of your library.
- **Watched folder** – Mendeley Desktop will automatically import all files that you save to a particular folder on your computer. To set this up, go to the **File** menu and select **Watch** folder

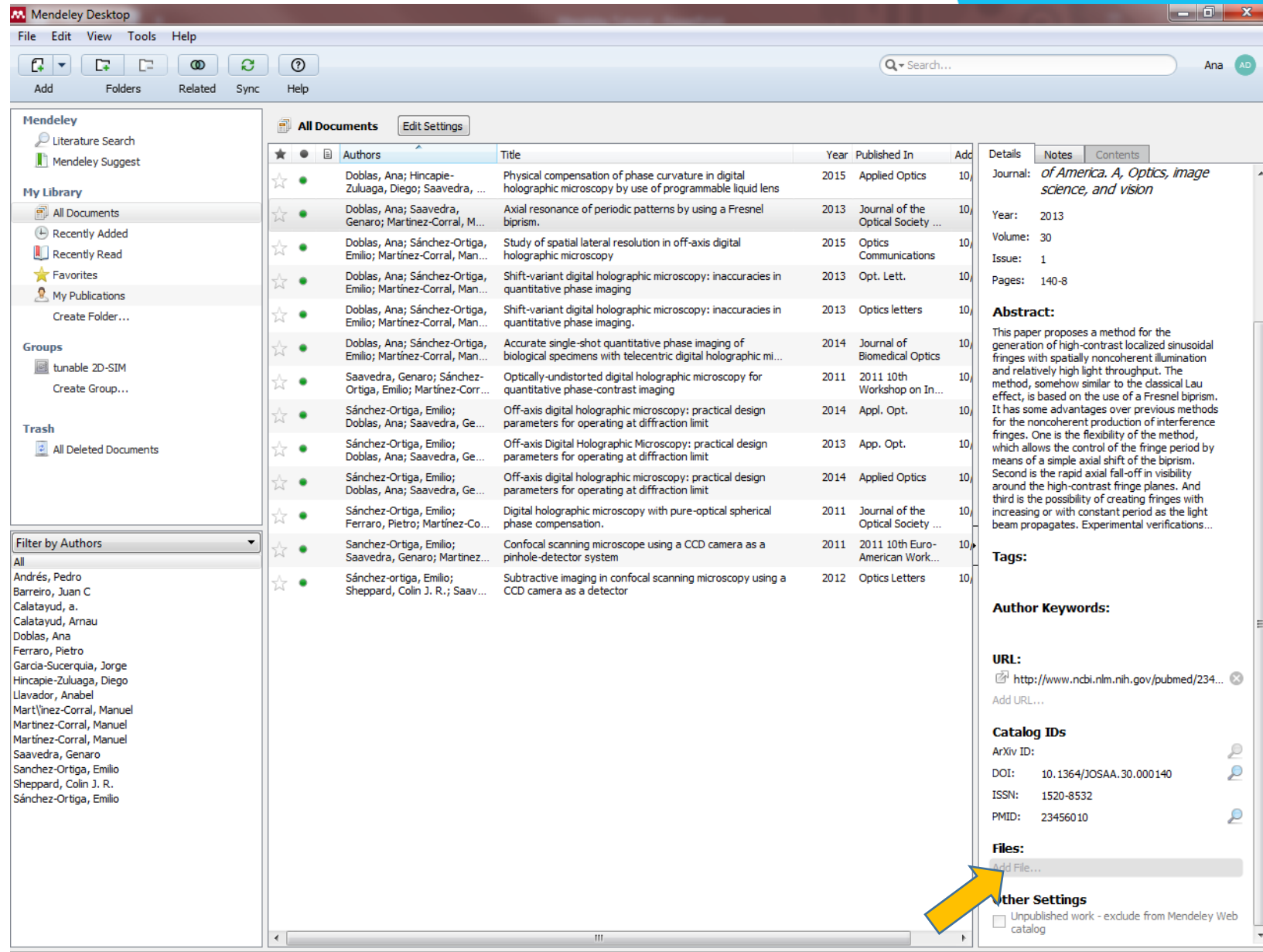


- **Add files** – Click on the Add Files button to the top left of the screen and navigate to the folder where the PDF is stored. Select a PDF and click on Open.



Mendeley Desktop

Adding PDF documents



The screenshot shows the Mendeley Desktop interface. On the left is a sidebar with navigation options like 'Literature Search', 'My Library', and 'Groups'. The main area displays a table of documents under 'All Documents'. The right pane shows details for a selected document, including journal information, abstract, and tags. A yellow arrow points to the 'Add File...' button in the 'Files' section of the details pane.

★	●	📄	Authors	Title	Year	Published In	Acc
☆	●		Doblas, Ana; Hincapie-Zuluaga, Diego; Saavedra, Genaro; Martinez-Corral, M...	Physical compensation of phase curvature in digital holographic microscopy by use of programmable liquid lens	2015	Applied Optics	10
☆	●		Doblas, Ana; Saavedra, Genaro; Martinez-Corral, M...	Axial resonance of periodic patterns by using a Fresnel biprism.	2013	Journal of the Optical Society ...	10
☆	●		Doblas, Ana; Sánchez-Ortiga, Emilio; Martínez-Corral, Man...	Study of spatial lateral resolution in off-axis digital holographic microscopy	2015	Optics Communications	10
☆	●		Doblas, Ana; Sánchez-Ortiga, Emilio; Martínez-Corral, Man...	Shift-variant digital holographic microscopy: inaccuracies in quantitative phase imaging	2013	Opt. Lett.	10
☆	●		Doblas, Ana; Sánchez-Ortiga, Emilio; Martínez-Corral, Man...	Shift-variant digital holographic microscopy: inaccuracies in quantitative phase imaging.	2013	Optics letters	10
☆	●		Doblas, Ana; Sánchez-Ortiga, Emilio; Martínez-Corral, Man...	Accurate single-shot quantitative phase imaging of biological specimens with telecentric digital holographic mi...	2014	Journal of Biomedical Optics	10
☆	●		Saavedra, Genaro; Sánchez-Ortiga, Emilio; Martínez-Corr...	Optically-undistorted digital holographic microscopy for quantitative phase-contrast imaging	2011	2011 10th Workshop on In...	10
☆	●		Sánchez-Ortiga, Emilio; Doblas, Ana; Saavedra, Ge...	Off-axis digital holographic microscopy: practical design parameters for operating at diffraction limit	2014	Appl. Opt.	10
☆	●		Sánchez-Ortiga, Emilio; Doblas, Ana; Saavedra, Ge...	Off-axis Digital Holographic Microscopy: practical design parameters for operating at diffraction limit	2013	App. Opt.	10
☆	●		Sánchez-Ortiga, Emilio; Doblas, Ana; Saavedra, Ge...	Off-axis digital holographic microscopy: practical design parameters for operating at diffraction limit	2014	Applied Optics	10
☆	●		Sánchez-Ortiga, Emilio; Ferraro, Pietro; Martínez-Co...	Digital holographic microscopy with pure-optical spherical phase compensation.	2011	Journal of the Optical Society ...	10
☆	●		Sanchez-Ortiga, Emilio; Saavedra, Genaro; Martinez...	Confocal scanning microscope using a CCD camera as a pinhole-detector system	2011	2011 10th Euro-American Work...	10
☆	●		Sánchez-ortiga, Emilio; Sheppard, Colin J. R.; Saav...	Subtractive imaging in confocal scanning microscopy using a CCD camera as a detector	2012	Optics Letters	10

Details | Notes | Contents

Journal: *of America. A, Optics, image science, and vision*

Year: 2013

Volume: 30

Issue: 1

Pages: 140-8

Abstract:
This paper proposes a method for the generation of high-contrast localized sinusoidal fringes with spatially noncoherent illumination and relatively high light throughput. The method, somehow similar to the classical Lau effect, is based on the use of a Fresnel biprism. It has some advantages over previous methods for the noncoherent production of interference fringes. One is the flexibility of the method, which allows the control of the fringe period by means of a simple axial shift of the biprism. Second is the rapid axial fall-off in visibility around the high-contrast fringe planes. And third is the possibility of creating fringes with increasing or with constant period as the light beam propagates. Experimental verifications...

Tags:

Author Keywords:

URL:
<http://www.ncbi.nlm.nih.gov/pubmed/234...>

Catalog IDs

ArXiv ID:

DOI: 10.1364/JOSAA.30.000140

ISSN: 1520-8532

PMID: 23456010

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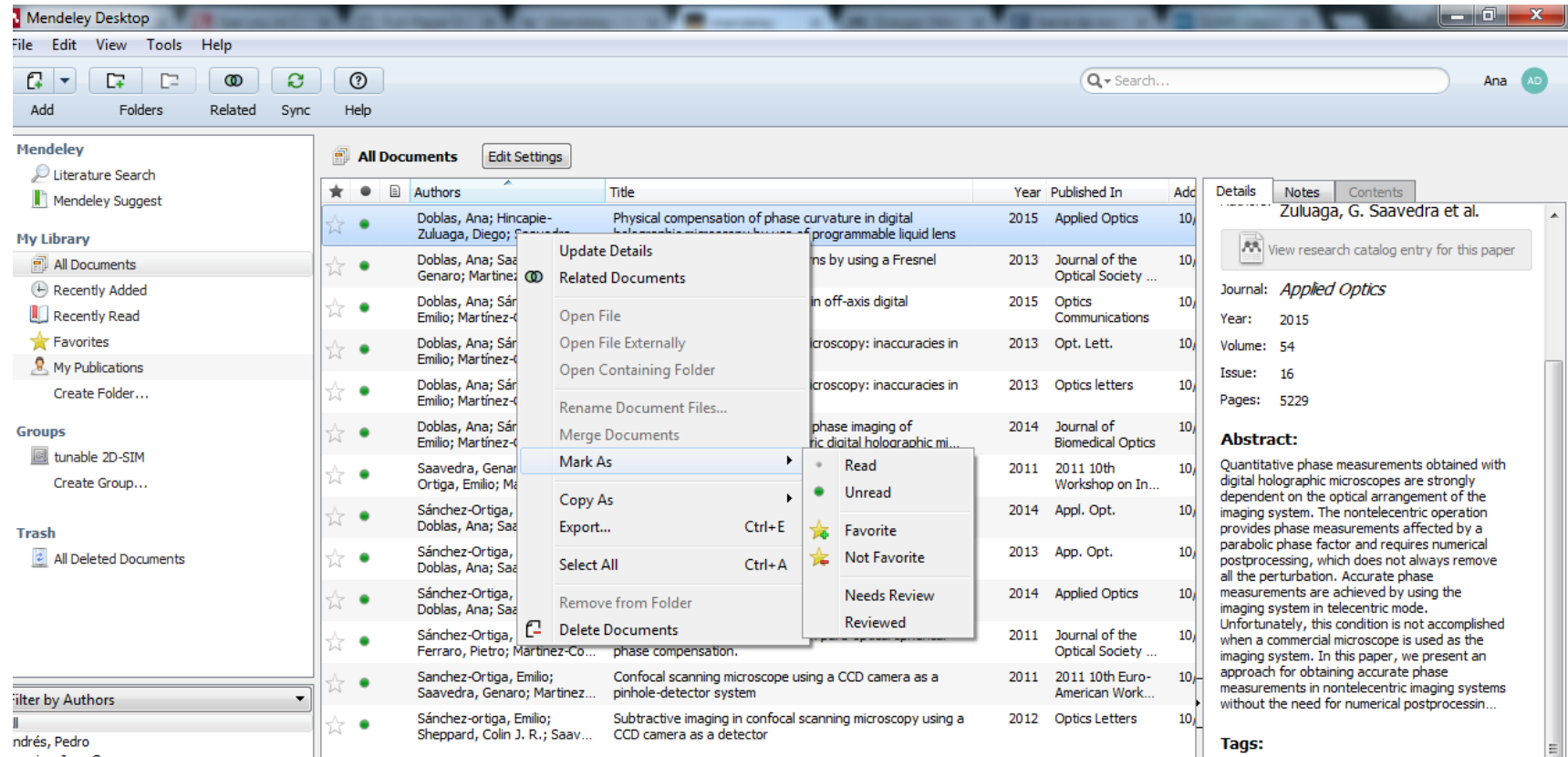
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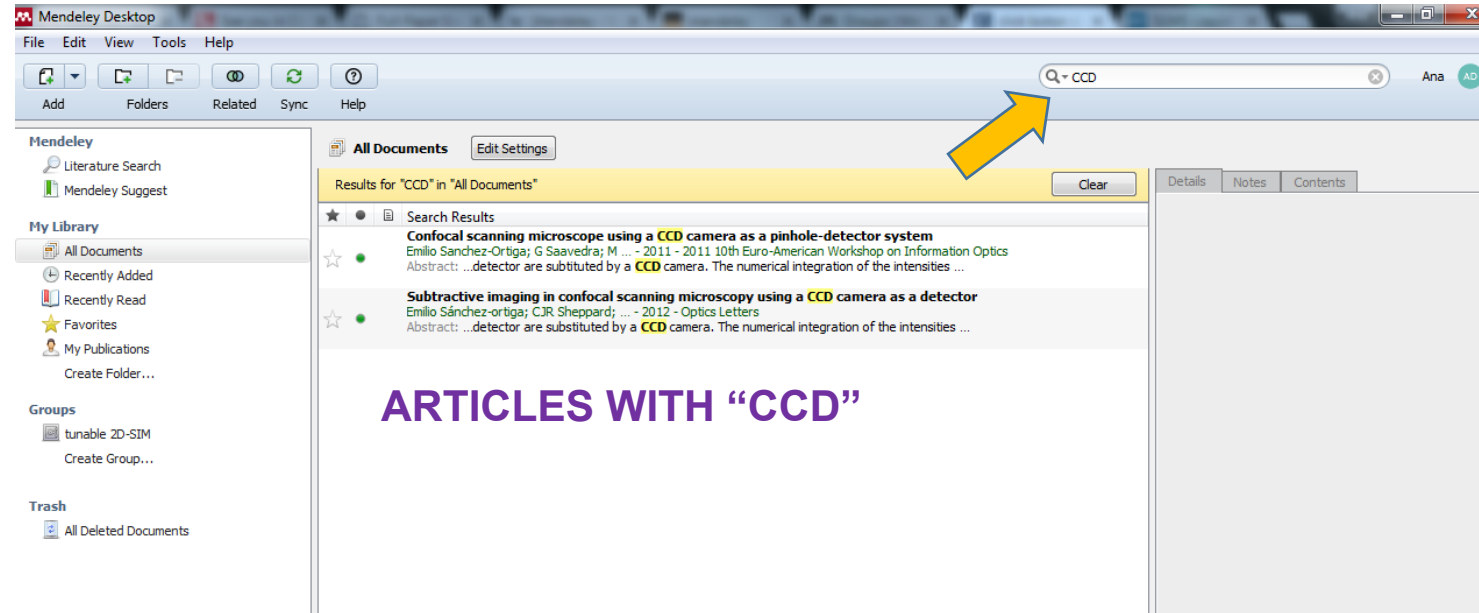
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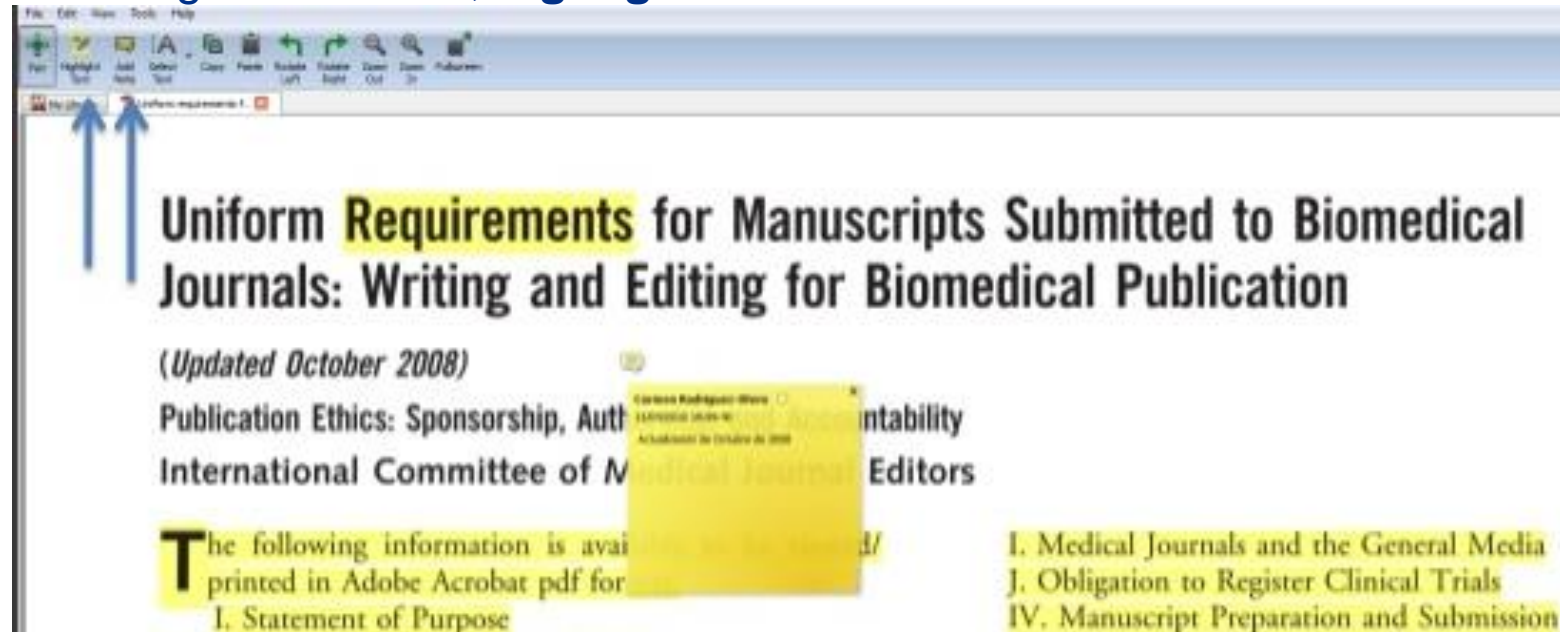
Keyword search



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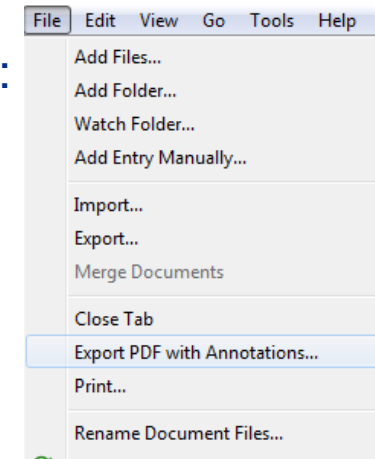
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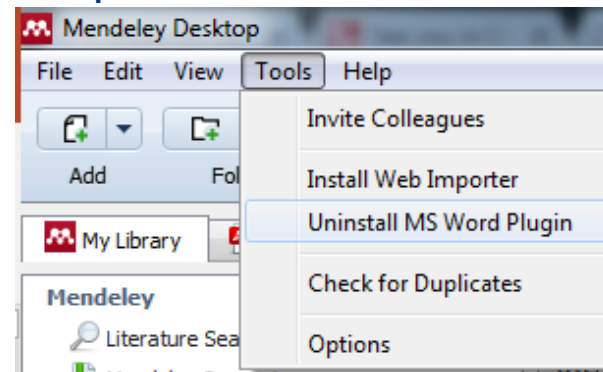
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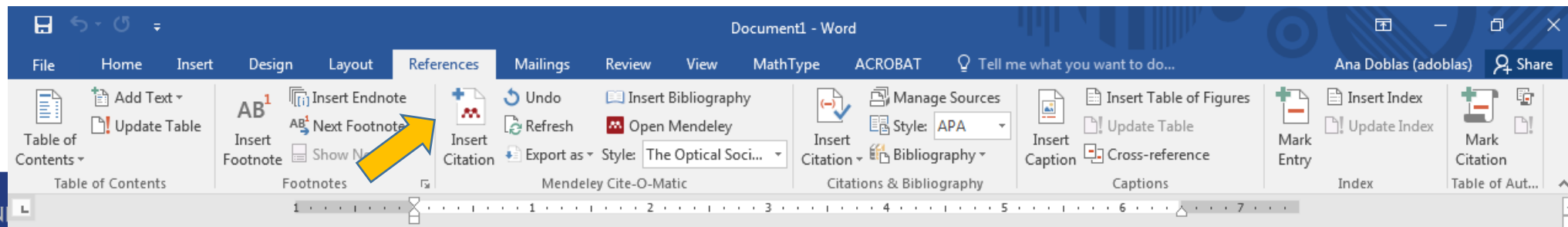
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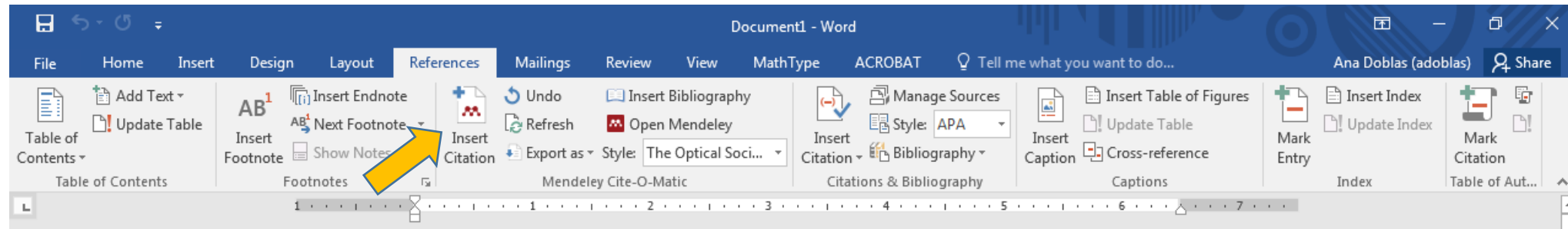


Cite references and create bibliography

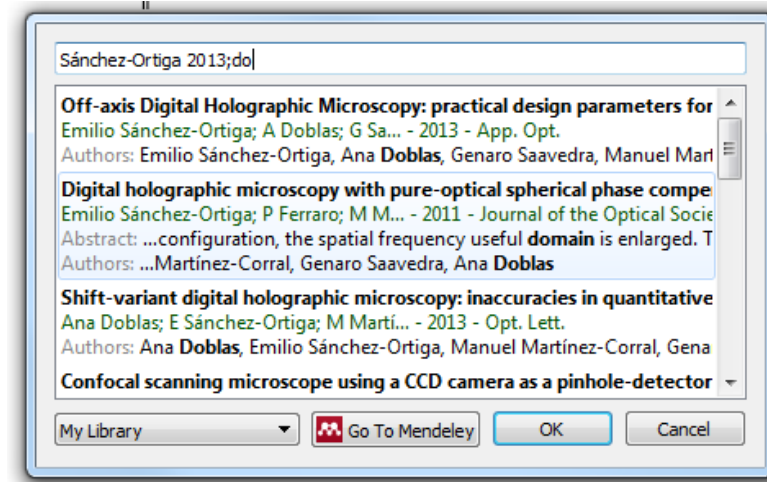
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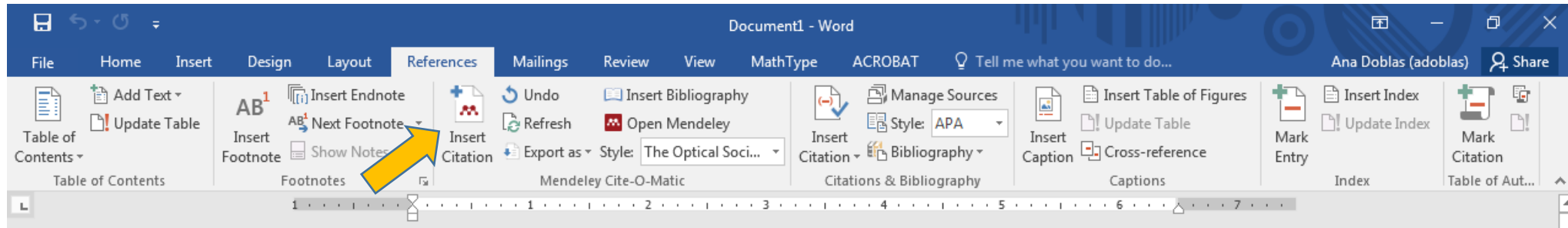


Cite references and create bibliography

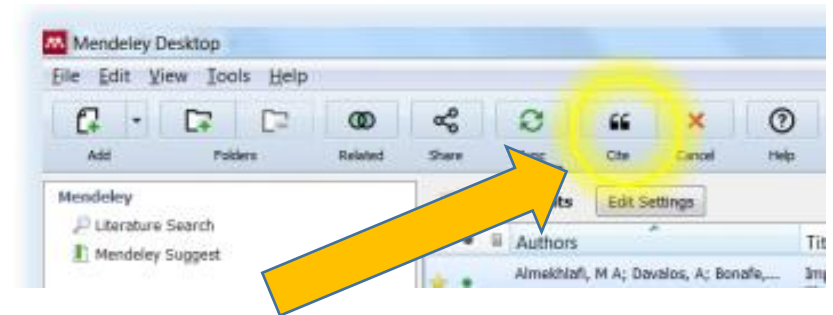
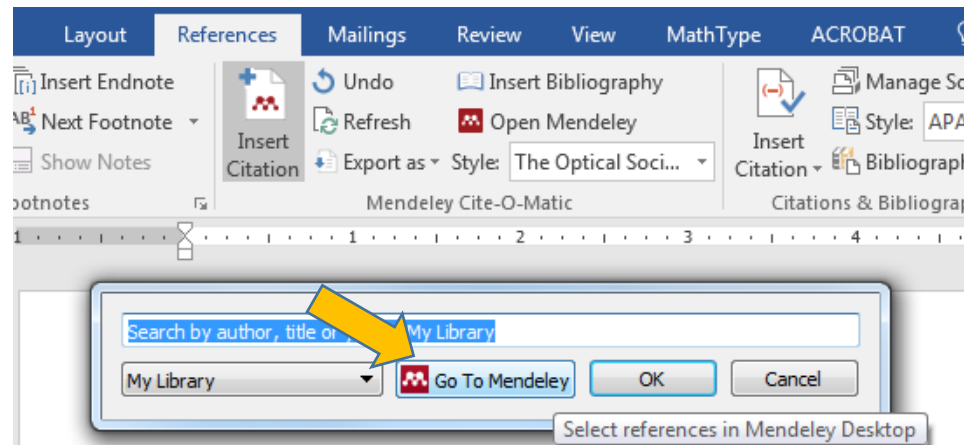
Inserting a citation into a Word document

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Cite references and create bibliography

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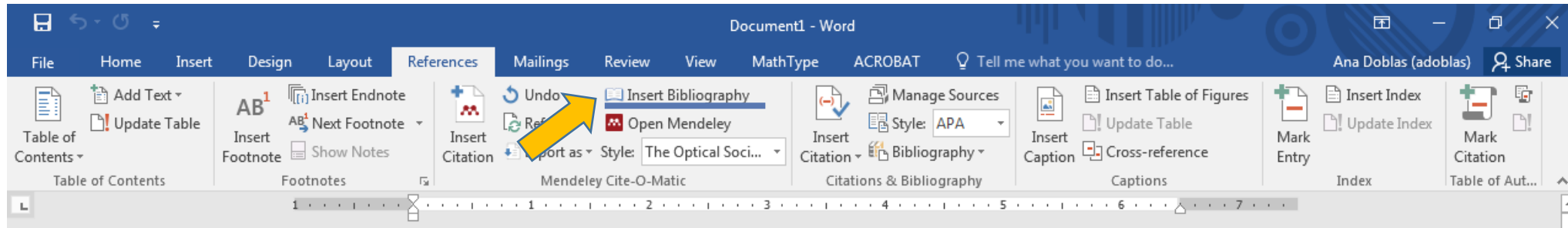
In some situations you may want to edit a citation you've already added, either to correct a reference or to add more detail. To do this, begin by clicking on an existing citation – it will be highlighted in grey once you click on it

The screenshot shows the Microsoft Word interface with the 'References' ribbon active. The 'Edit Citation' button is highlighted with a yellow arrow. The document text contains a citation: 'SIM system that is advantageous compared to other 2D-SIM systems with comparable complexity, because it provides high-resolution optical-sectioned images independent of the objective lens used, without the presence of coherent noise and without reducing the contrast of the structured pattern as in other incoherent implementations. Evaluation of our proposed system is demonstrated with comparative studies of simulated and experimental reconstructed images to validate our theoretical findings. Our experimental results show a simultaneous improvement of the lateral resolution by a factor of 1.8x with the desired OS capability achieved in the resulting OS-SR-combination image. Our experimental results also verify that our system can provide better OS capability than the commercial Zeiss ApoTome SIM system in the investigated study. ©2017 Optical Society of America'. The citation is highlighted in grey. A search dialog box is open over the citation, with the text 'Neil 1997; Neil 1998; Search for additional reference' and a dropdown menu showing 'tunable 2D-SIM'. The dialog box has 'OK' and 'Cancel' buttons. A yellow arrow points to the dialog box.

Cite references and create bibliography

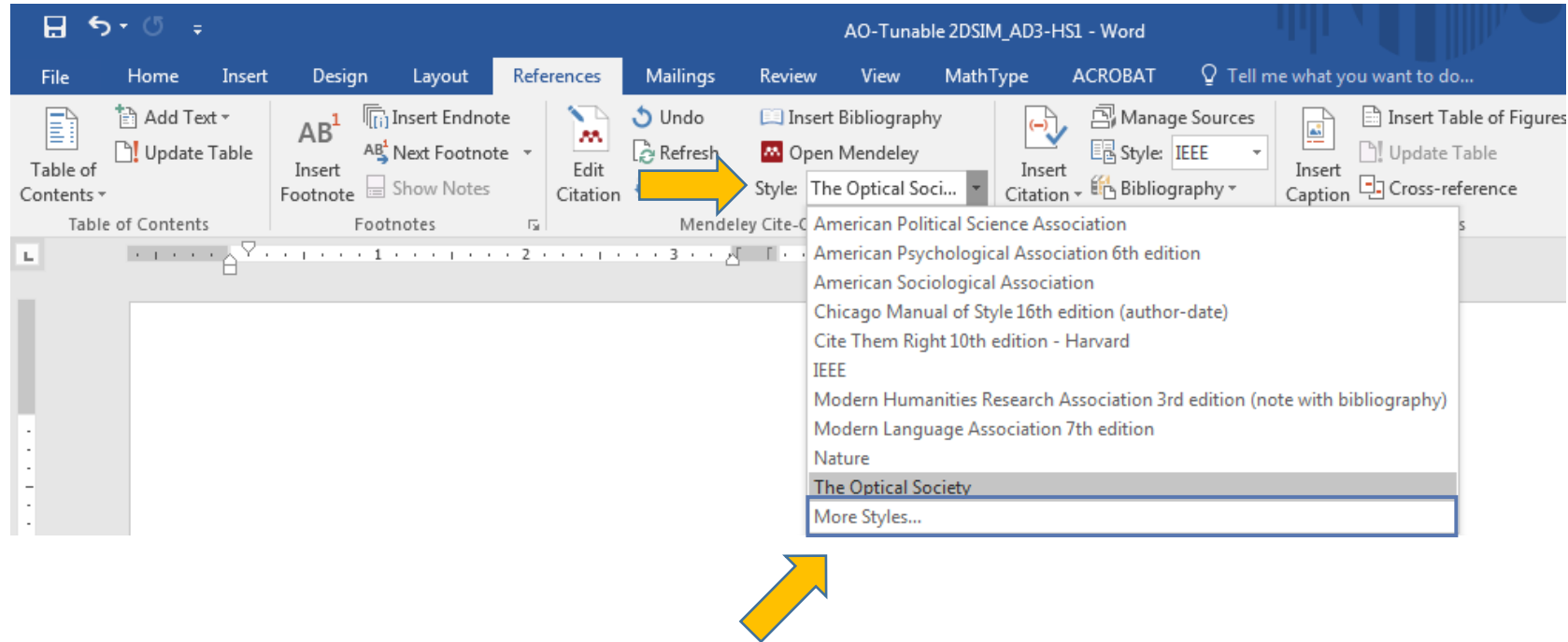
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Cite references and create bibliography

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Objective of the session

At the end of the session, students will be able to

1. Understand the importance of literature review 
2. Set automatic Google alerts to track newly published work 
3. Use UofM library resources to search bibliography 
4. Identify Mendeley as a key for bibliography review, sharing, and citation 