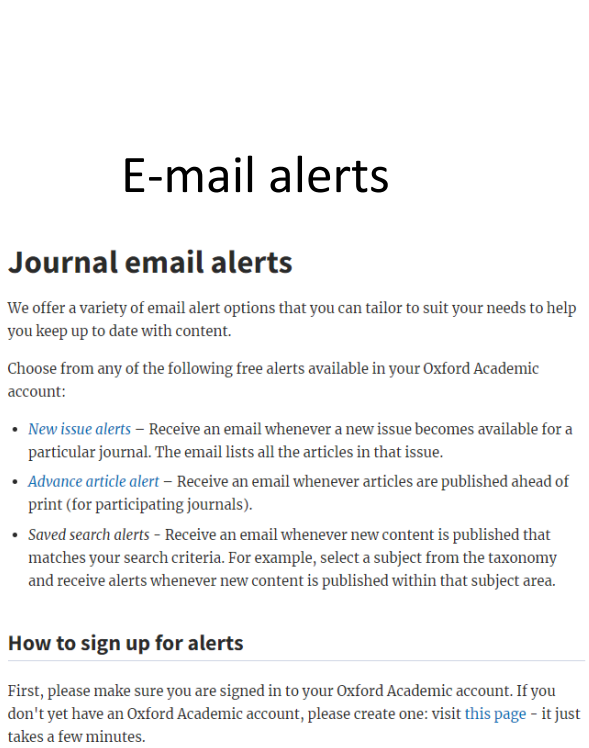
3.3 How to search bibliographic records and full text articles?

Browsing through every individual volume of the journal

It is necessary **to select journals** that are relevant to the field
One could be smashed by an enormous amount of articles
Searching is not so straightforward and **comprehensive**

E-mail alerts



Journal email alerts

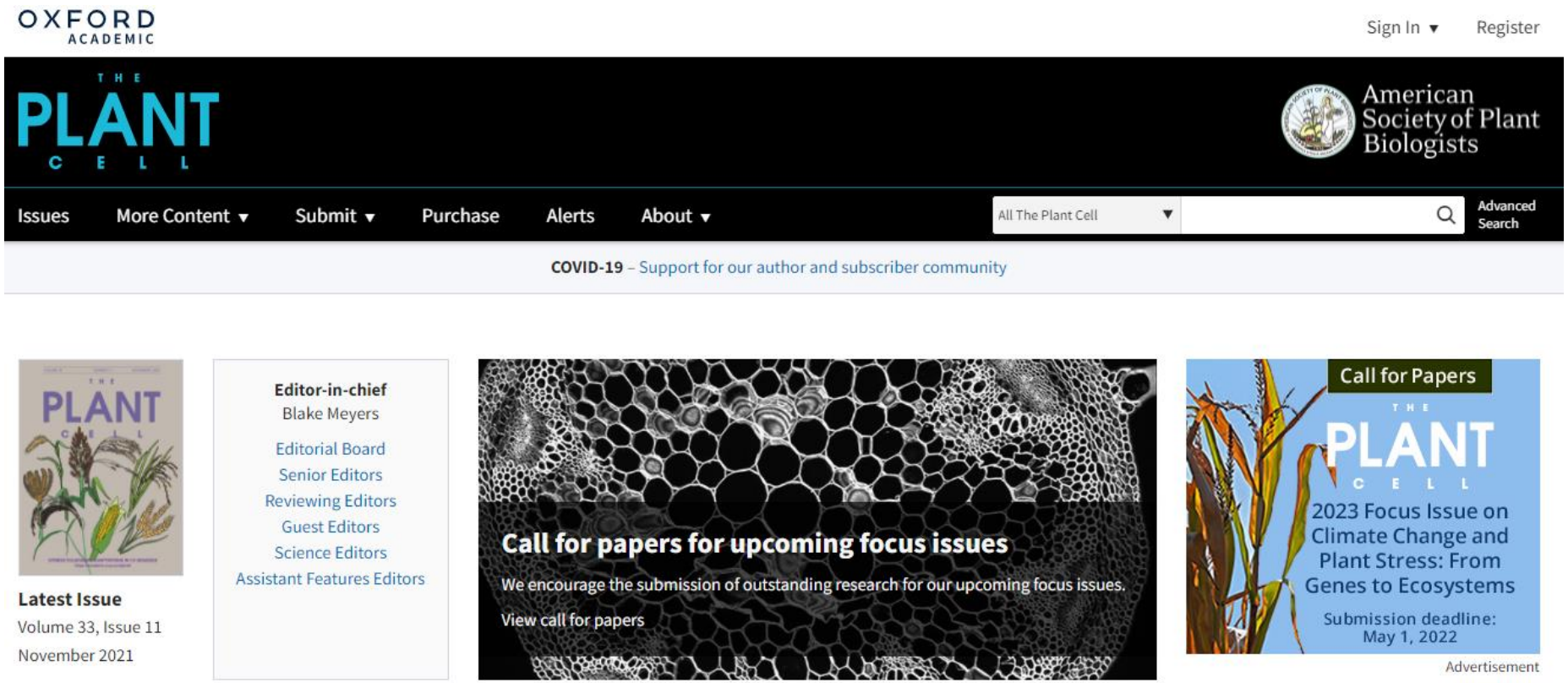
We offer a variety of email alert options that you can tailor to suit your needs to help you keep up to date with content.

Choose from any of the following free alerts available in your Oxford Academic account:

- *New issue alerts* – Receive an email whenever a new issue becomes available for a particular journal. The email lists all the articles in that issue.
- *Advance article alert* – Receive an email whenever articles are published ahead of print (for participating journals).
- *Saved search alerts* - Receive an email whenever new content is published that matches your search criteria. For example, select a subject from the taxonomy and receive alerts whenever new content is published within that subject area.

How to sign up for alerts

First, please make sure you are signed in to your Oxford Academic account. If you don't yet have an Oxford Academic account, please create one: visit this page - it just takes a few minutes.



3.3 How to search bibliographic records and full text articles?

Literature searching using the bibliographic database

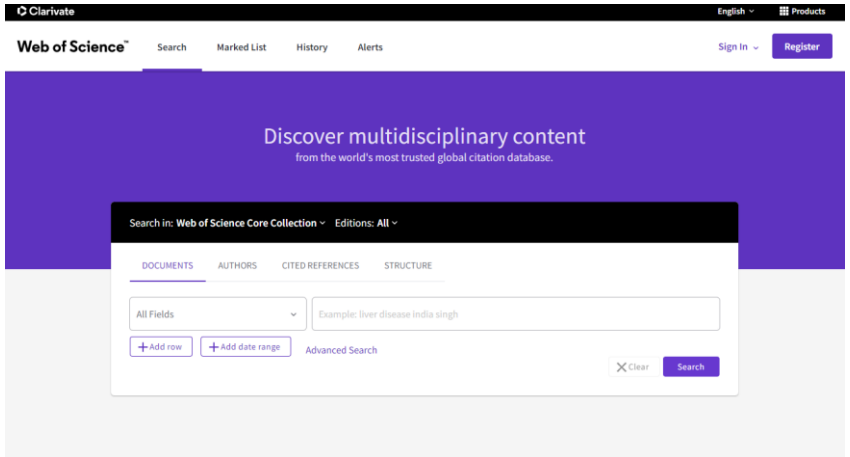
Complete information

One could be smashed by an enormous amount of records

Searching is very easy and **comprehensive**

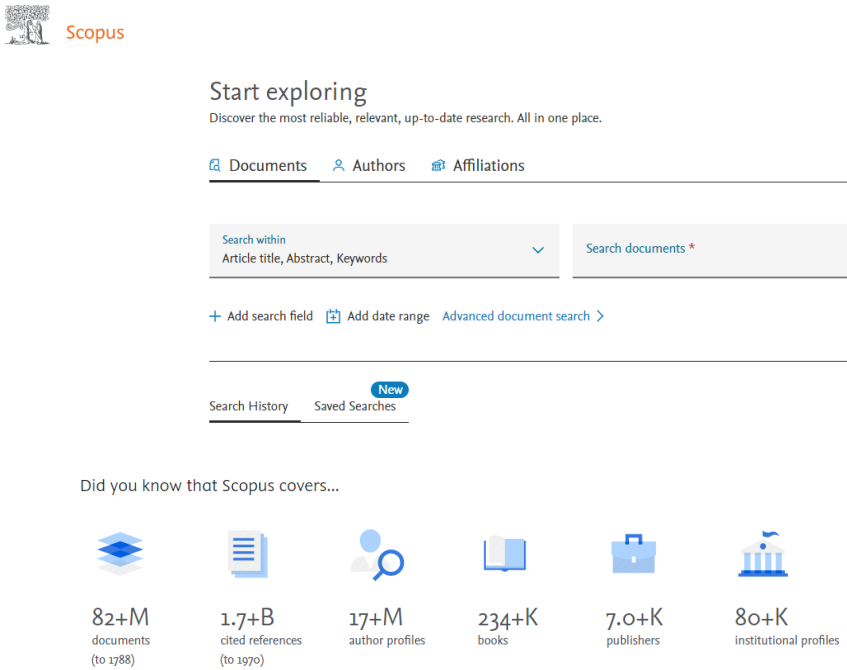
The database **must be searched regularly** using clever combinations of **key words**

ISI Web of Knowledge

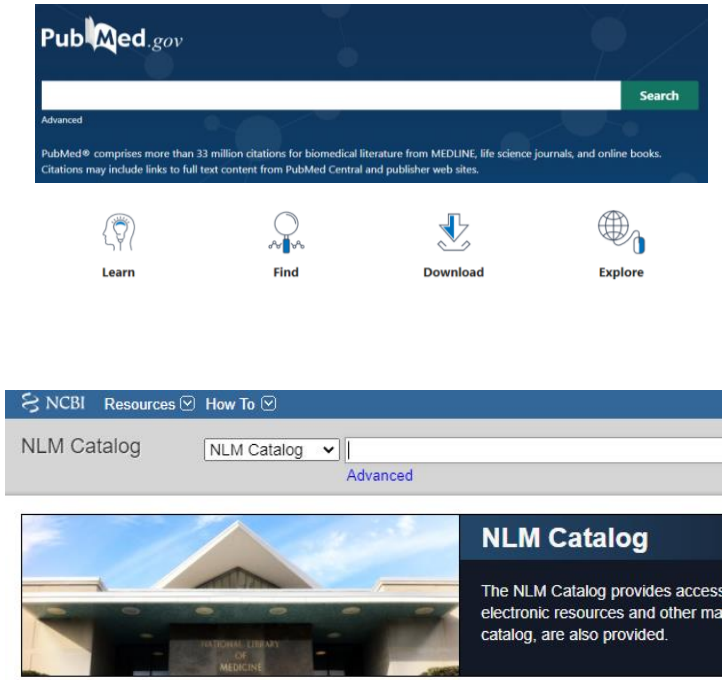


Web of Science Group **Master Journal List**

Scopus



Pubmed



3.3 How to search bibliographic records and full text articles?

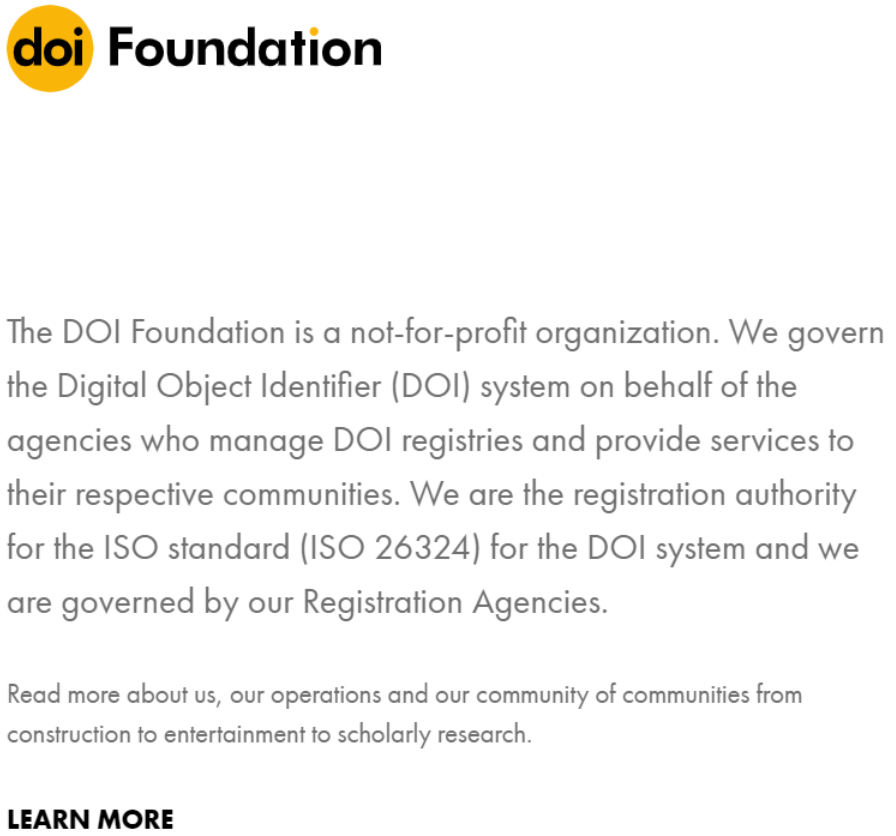
Scientific article identifier

DOI

- or **Digital Object Identifier**, is a string of numbers, letters and symbols used to uniquely identify an article or document

- provides an article with a permanent web address (URL)

- in practice, almost all **journal articles** and most **academic books** have a DOI assigned to them



3.3 How to search bibliographic records and full text articles?

Creating a personal database of references

Reference management software

- both **freeware and commercial** reference management software exist
- **import and export filters** are shared
- **citation styles and reference list file formats** could be modified and saved
- **integration** into word processor
- **communication** with databases

Software	Developer	First public release	Latest stable release date	Latest stable version	Cost (USD)	Free software	License
Bebop	ALaRI Institute	2007-11-08	2009-11-10	1.1	Free	Yes	BSD
BibBase	Christian Fritz	2005	2013-07	v3	Free	No	Proprietary
BibDesk	BibDesk developers	2002-04	2021-08-15	1.8.3	Free	Yes	BSD
Biblioscape	CG Information	1997	2015-06-22	10.0.3.6	US$79-299[1]	No	Proprietary
BibSonomy	University of Kassel	2006-01	2019-12-11	3.9.2	Free	Yes	AGPL, GPL, LGPL[2]
Bibus	Bibus developers	2004-06-03	2013-05-23	1.5.1	Free	Yes	GNU GPL
Bookends	Sonny Software	1988 (Mac) / 1983 (Apple II+)	2021-01-23	13.5.1[3]	US$59.99[1]	No	Proprietary
Citavi	QSR International[4]	2006-02-13	2021-01-14	6.8.0.0	US$89-1947 / Free for projects up to 100 references[5]	No	Proprietary
CiteULike	Oversity Limited	2004-11	Shut down in 2019-03-30[8]		Free	No	proprietary[9]
colwiz	colwiz Ltd	2011	2016-05-09		Free / Online storage free up to 3 GB / Additional storage space available	No	Proprietary
EndNote	Clarivate Analytics	1988	2020-12-14	20	US$299.95[1]	No	Proprietary
JabRef	JabRef developers	2003-11-29	2021-07-05	5.3	Free	Yes	MIT license
KBibTeX	KBibTeX developers	2005-08	2020-04-26	0.9.2	Free	Yes	GNU GPL
Mendeley	Elsevier	2008-08	2020	1.19.8	Free / Online storage free up to 2 GB / Additional storage space available	No	proprietary (OS API clients exist)
Paperpile	Stefan Washietl, Gregorgy Jordan, Andreas Gruber	2013	Continually updated online		US$2.99/month for academics, 9.99/month otherwise	No	Proprietary
Pybliographer	pybliographer developers	1998-10-30 (0.2)	2018-04-03	1.4.0	Free	Yes	GNU GPL
Qiqqa	Qiqqa	2010-04	2020-10-04	v80	Free, Freemium and Premium versions	No	Proprietary
ReadCube Papers (now Papers)	ReadCube	2011-10	2021-03-09	v.4.23.3	US$ 3/month for students, 5/month academics	No	Proprietary
refbase	refbase developers	2003-06-03	2014-02-28	0.9.6	Free	Yes	GNU GPL
RefDB	refdb developers	2001-04-25	2007-11-05	0.9.9	Free	Yes	GNU GPL
Reference Manager	Thomson Reuters	1984	2010	12.0.3	Not for sale anymore, sales ceased December 31, 2015	No	Proprietary
Referencer	Referencer developers	2008-03-15	2014-02-27	1.2.2	Free	Yes	GNU GPL
RefME	RefME	2014	Shut down in 2017		Free	No	Proprietary
RefWorks	Ex Libris / ProQuest	2001	2018	3	Institutional subscription	No	Proprietary
SciRef	Scientific Programs	2012	2020-07-30	1.6.2	US$38.90 / Free trial version	No	Proprietary
Sente	Third Street Software, Inc.	2004	Shut down in 2017	6.7.9	US$60–80[1] / Free for libraries up to 100 refs	No	Proprietary
Wikindx	Mark Grimshaw	2004-02	2021-07-07	6.4.10	Free	Yes	ISC license
WizFolio	WizPatent	2008-06	Shut down in 2017	Avatara	US$25 / Free Basic version	No	Proprietary
Zotero	Roy Rosenzweig Center for History and New Media at GMU	2006	2021-01-11	5.0.95 [11]	Free / Online storage free up to 300 MB / Additional storage space available	Yes	AGPL

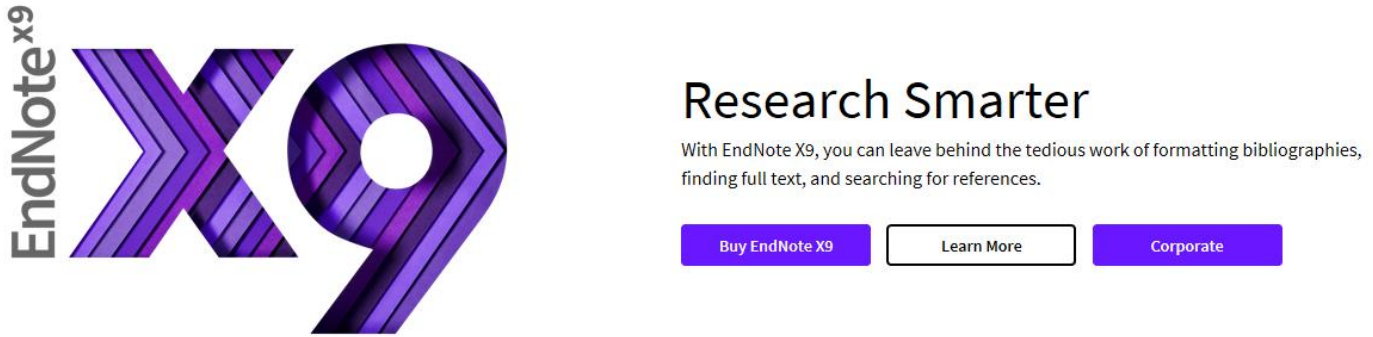
https://en.wikipedia.org/wiki/Comparison_of_reference_management_software

3.3 How to search bibliographic records and full text articles?

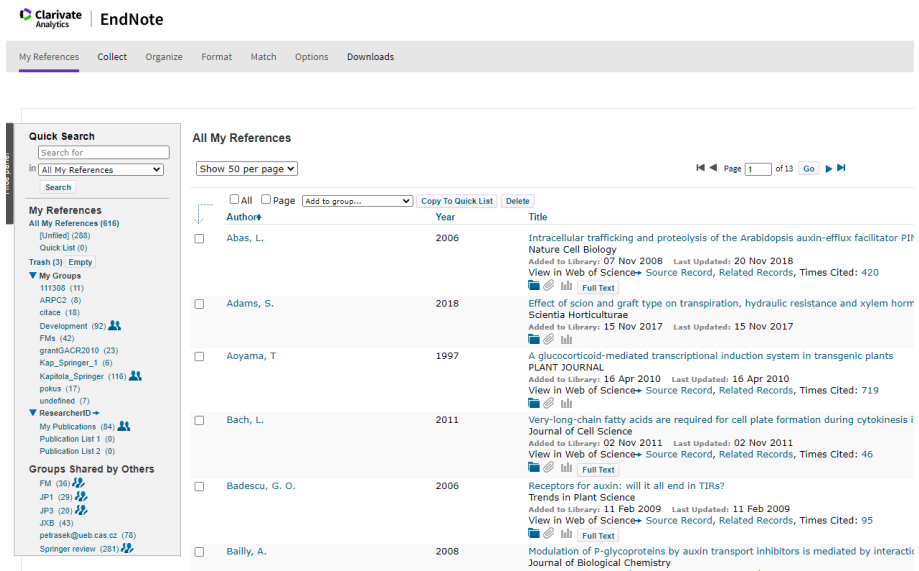
Creating a personal database of references

Reference management software

EndNote
- provided by Clarivate
- Commercial



MyEndNoteWeb
- provided by Clarivate
- freeware

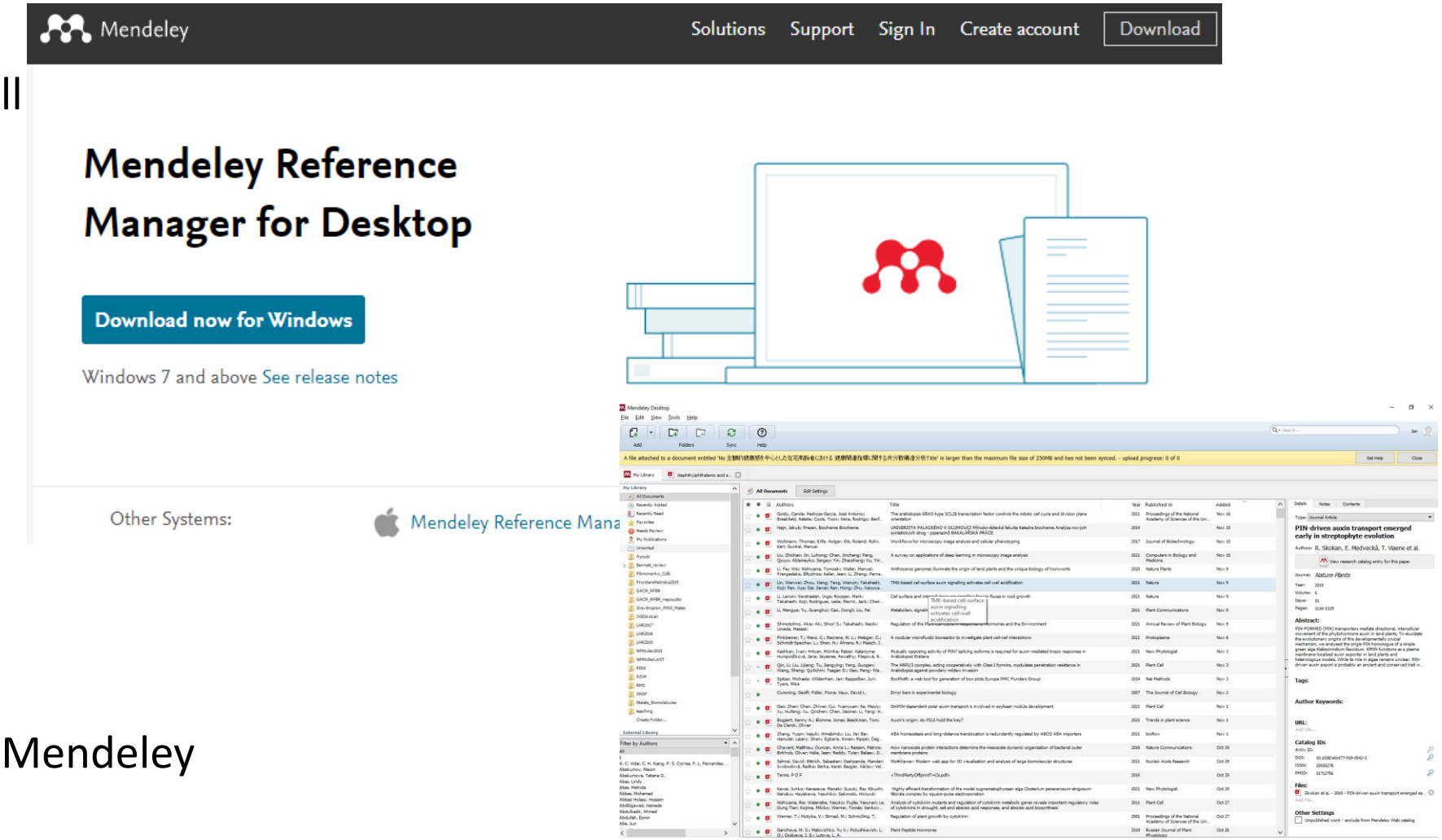


3.3 How to search bibliographic records and full text articles?

Creating a personal database of references

Mendeley

- perfect combination of full text and bibliography searching in one database
- 2 GB of cloud space for free



Mendeley

Mendeley Blog

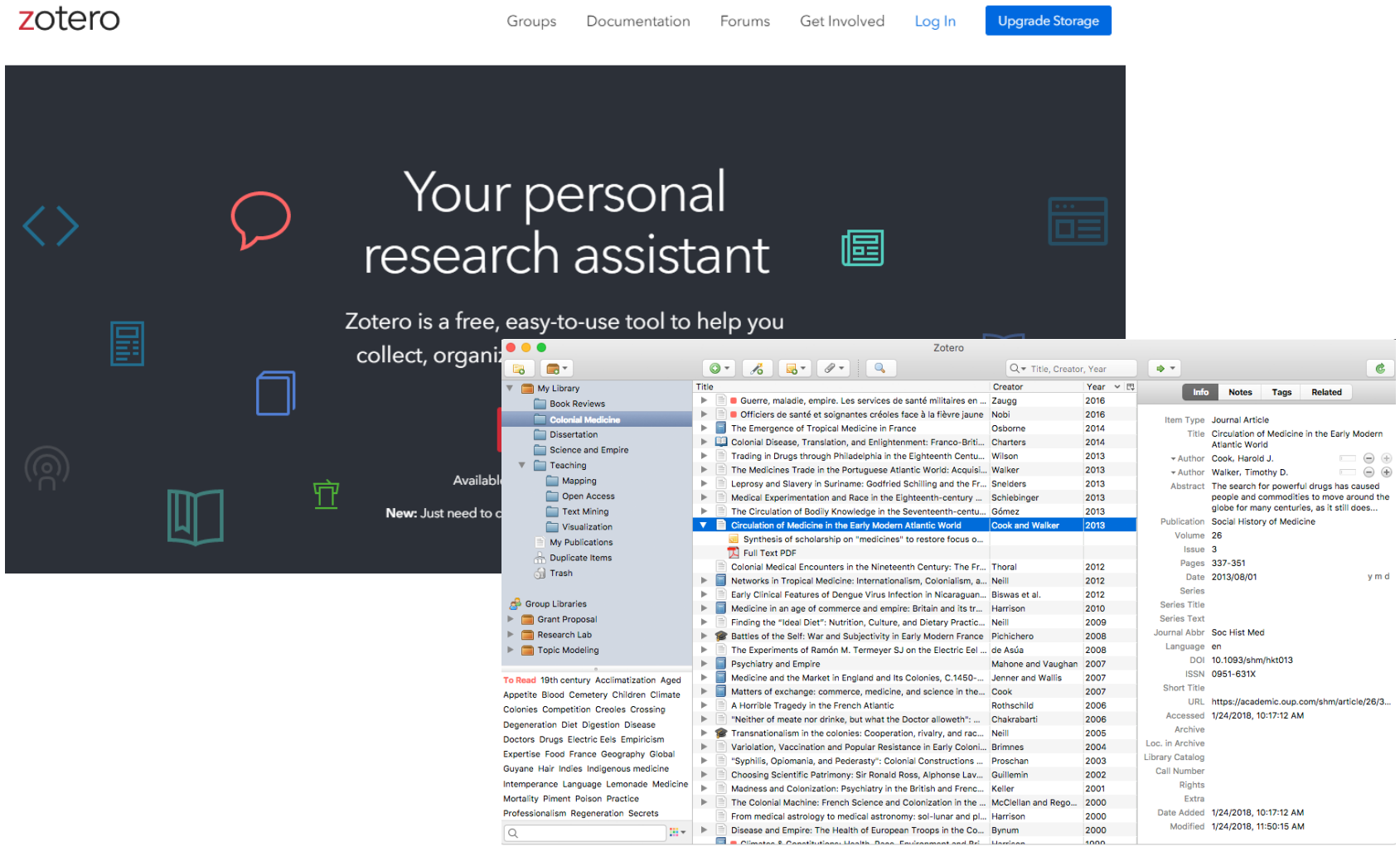
7 ways to add documents to Mendeley

3.3 How to search bibliographic records and full text articles?

Creating a personal database of references

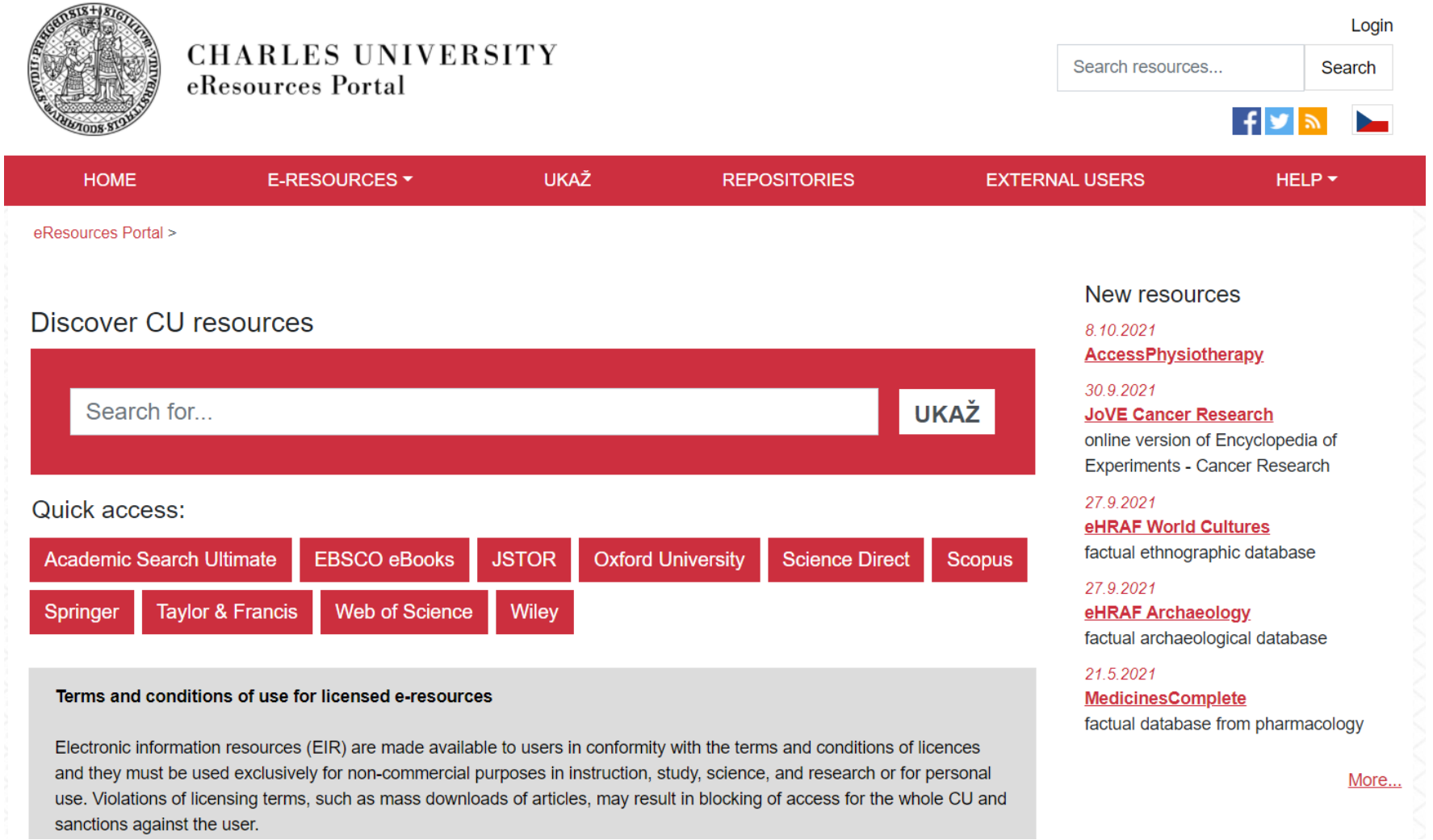
Zotero

- Very similar to Mendeley
- originally as a Firefox plugin, now as a stand alone application
- combination of full text and bibliographic approach



3.3 How to search bibliographic records and full text articles?

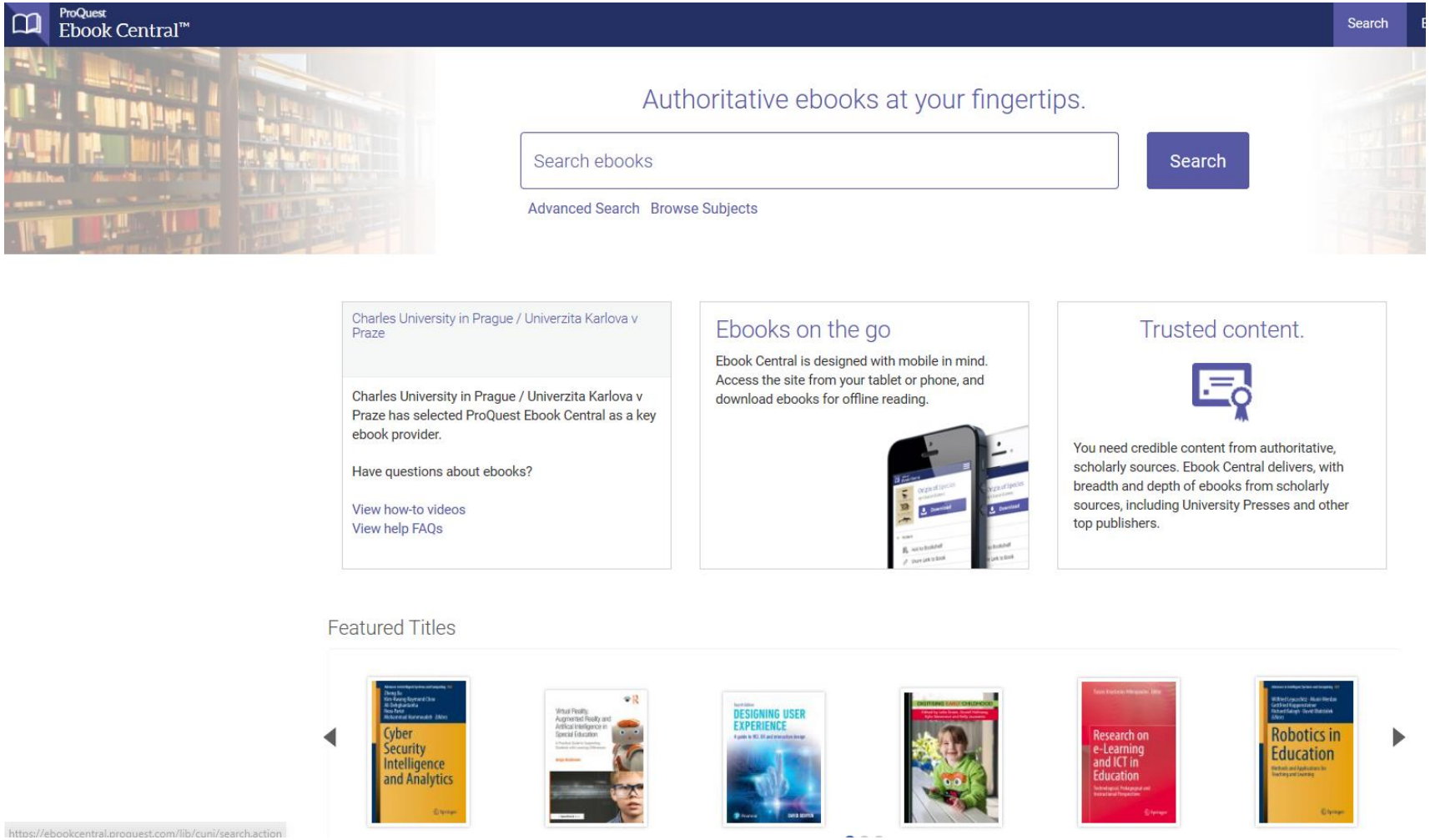
Finding full text of articles from journals or books



3.3 How to search bibliographic records and full text articles?

Finding full text of articles from journals or books

ProQuest Ebook Central
https://ebookcentral.proquest.com/lib/cuni/home.action?ebraryDocId=null



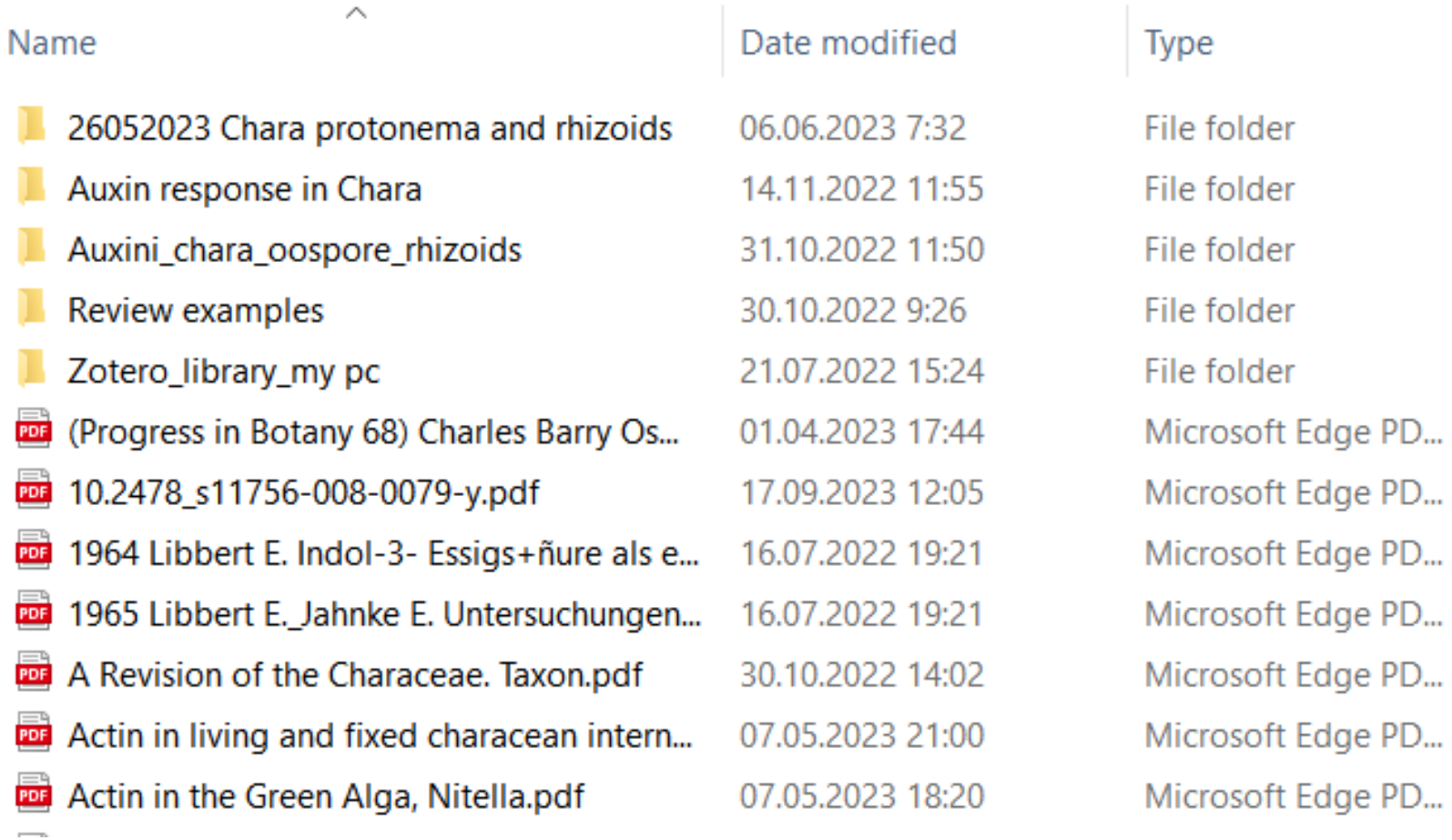
3.3.3 Creating your own database of references

How I used to keep track of my references

The old way

- messy, hard to navigate

- not very organized

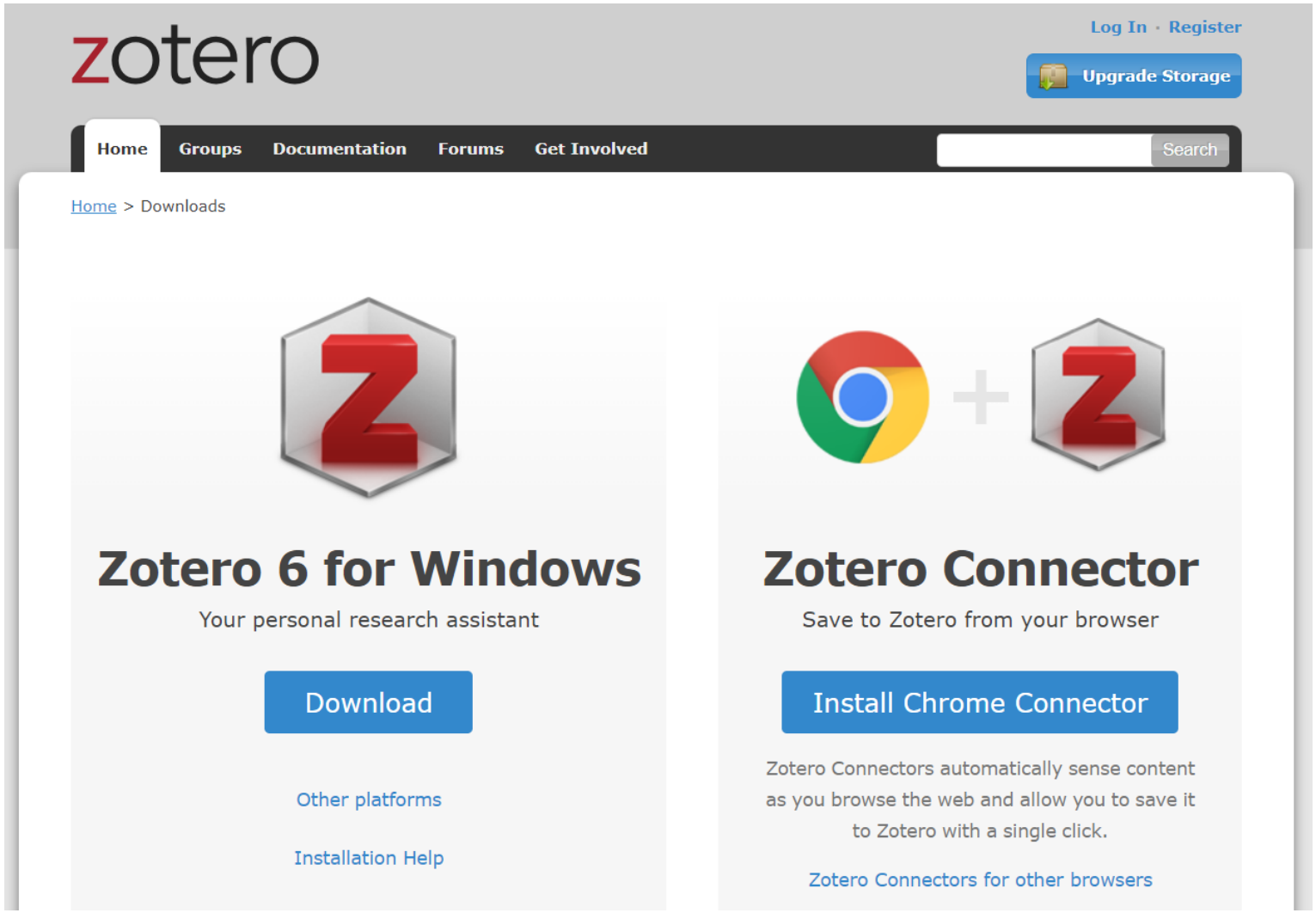


Name	Date modified	Type
26052023 Chara protonema and rhizoids	06.06.2023 7:32	File folder
Auxin response in Chara	14.11.2022 11:55	File folder
Auxini_chara_oospore_rhizoids	31.10.2022 11:50	File folder
Review examples	30.10.2022 9:26	File folder
Zotero_library_my pc	21.07.2022 15:24	File folder
(Progress in Botany 68) Charles Barry Os...	01.04.2023 17:44	Microsoft Edge PD...
10.2478_s11756-008-0079-y.pdf	17.09.2023 12:05	Microsoft Edge PD...
1964 Libbert E. Indol-3- Essigs+ñure als e...	16.07.2022 19:21	Microsoft Edge PD...
1965 Libbert E._Jahnke E. Untersuchungen...	16.07.2022 19:21	Microsoft Edge PD...
A Revision of the Characeae. Taxon.pdf	30.10.2022 14:02	Microsoft Edge PD...
Actin in living and fixed characean intern...	07.05.2023 21:00	Microsoft Edge PD...
Actin in the Green Alga, Nitella.pdf	07.05.2023 18:20	Microsoft Edge PD...

3.3.3 Creating your own database of references

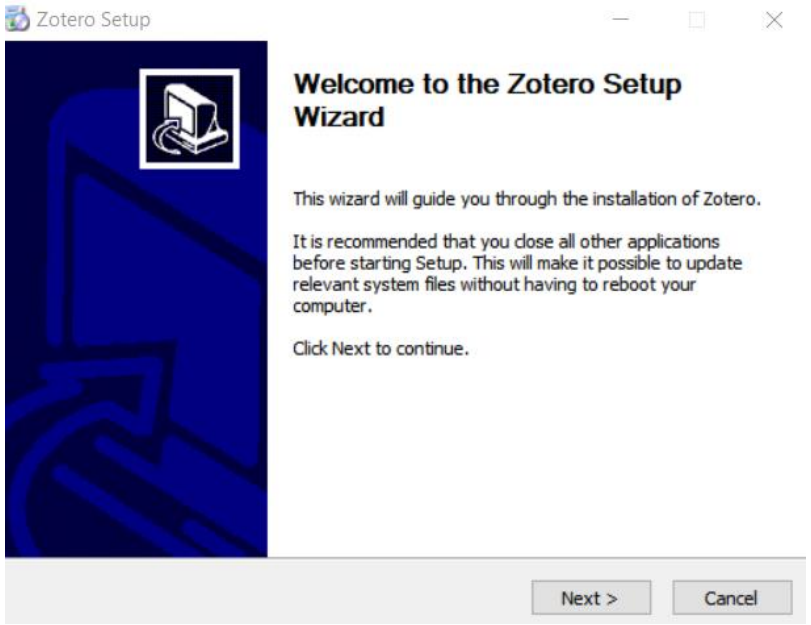
The new way

- my referencing software of choice is Zotero



3.3.3 Creating your own database of references

1.



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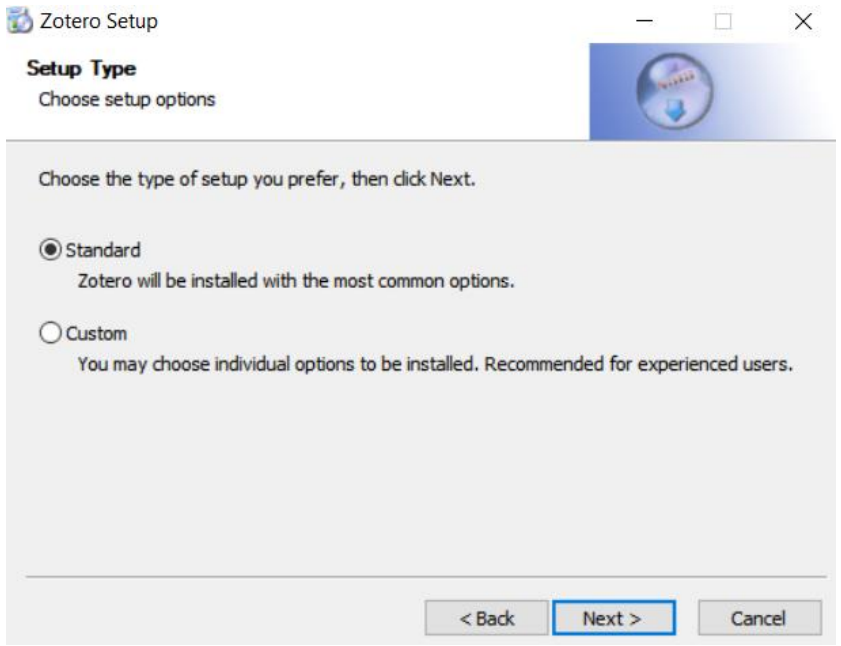

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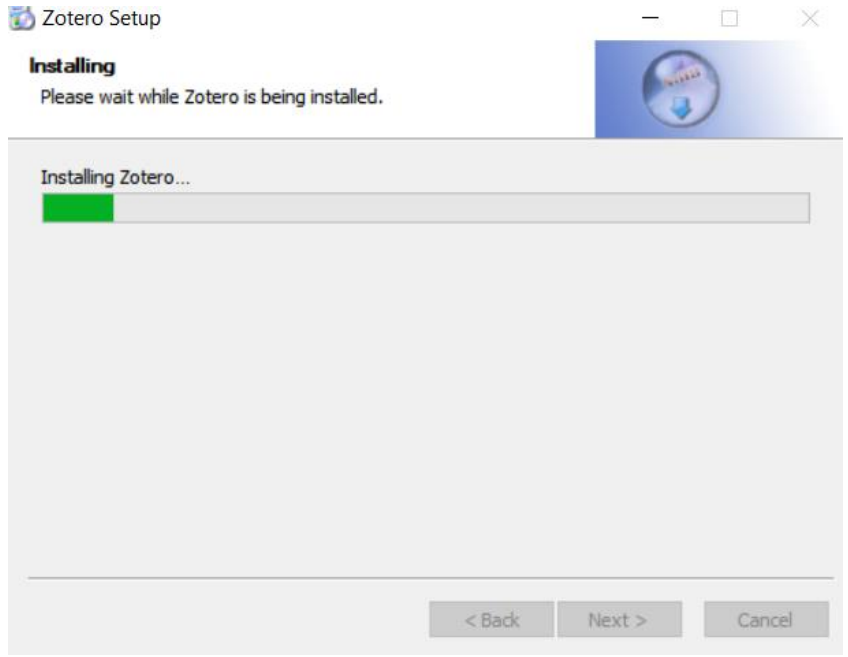
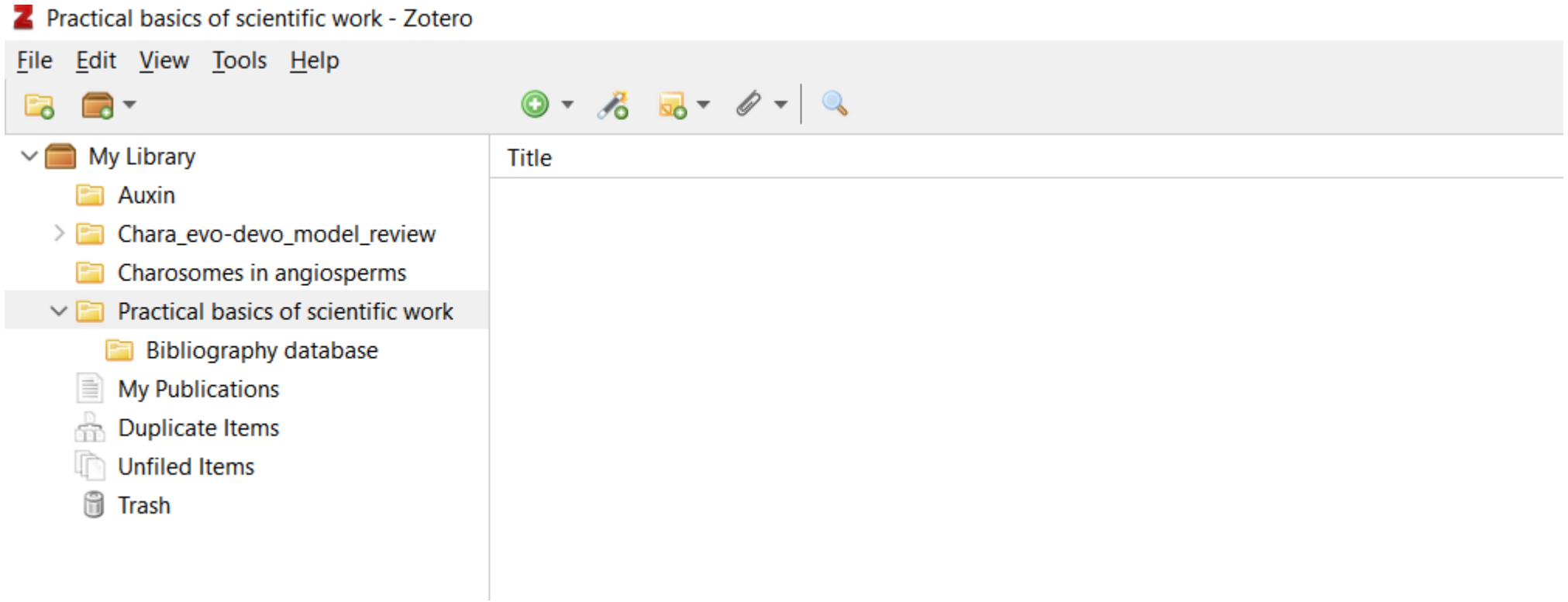


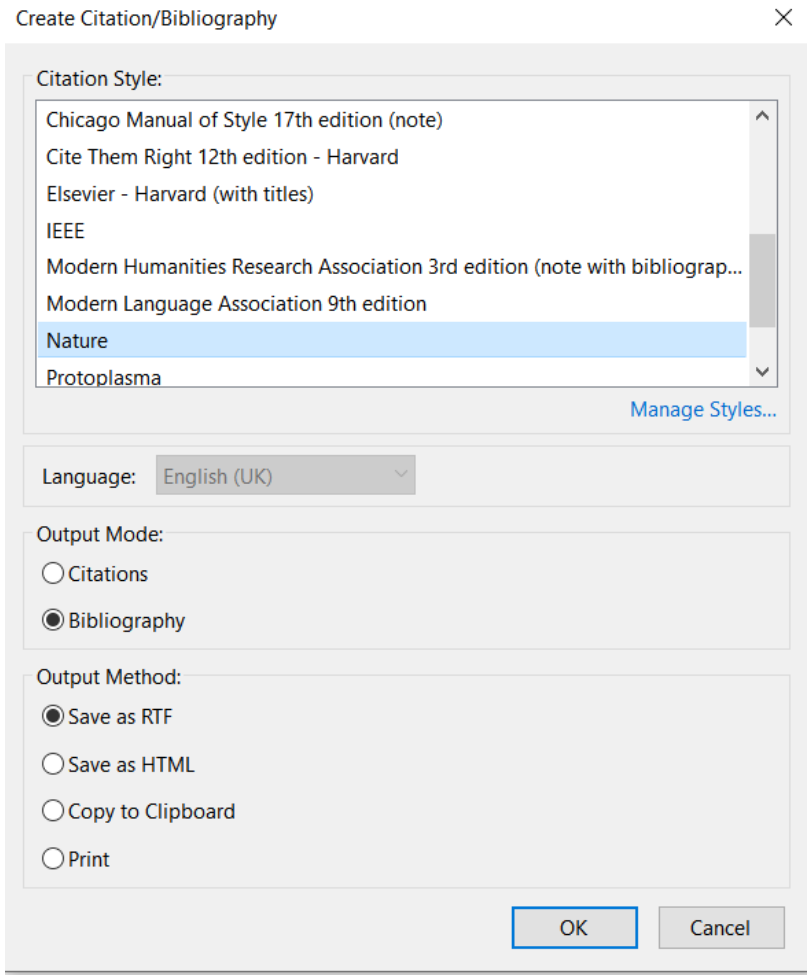
3.3.3 Creating your own database of references

Creating folders and subfolders to keep your references organized



3.3.3 Creating your own database of references

Export your bibliography in a **defined citation style**



What is a citation style?

- a citation style dictates on how to **cite sources** in your **academic writing,** and how the information is **ordered**, as well as **punctuation** and other **formatting**

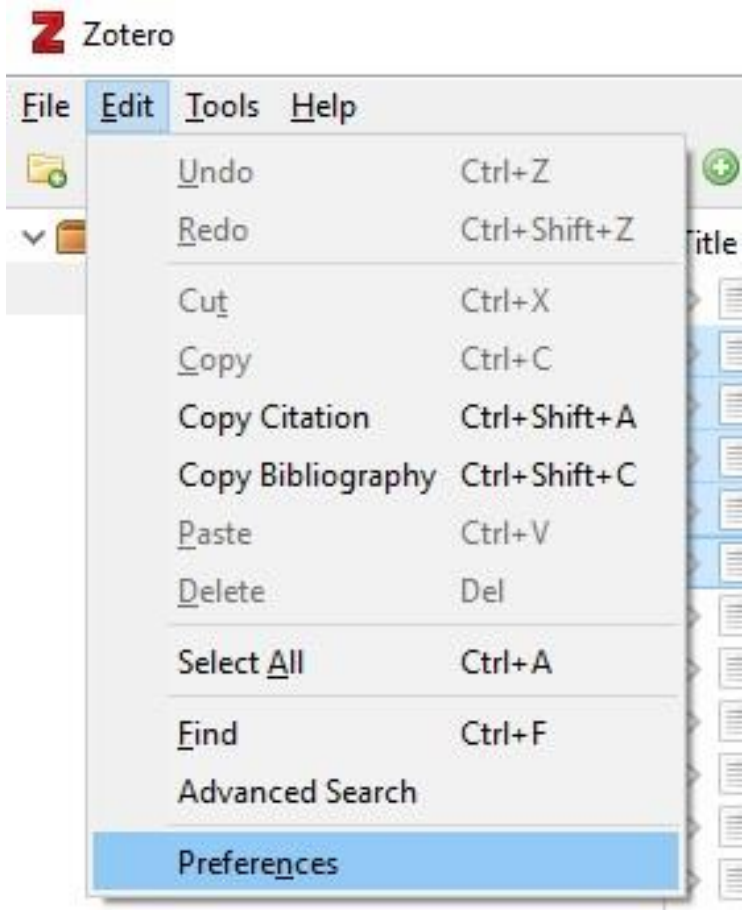
- the citation style sometimes depends on the academic discipline involved or a publisher/journal

https://www.scribbr.com/citing-sources/citation-styles/

3.3.3 Creating your own database of references

Zotero Add-On for **Word**

1.



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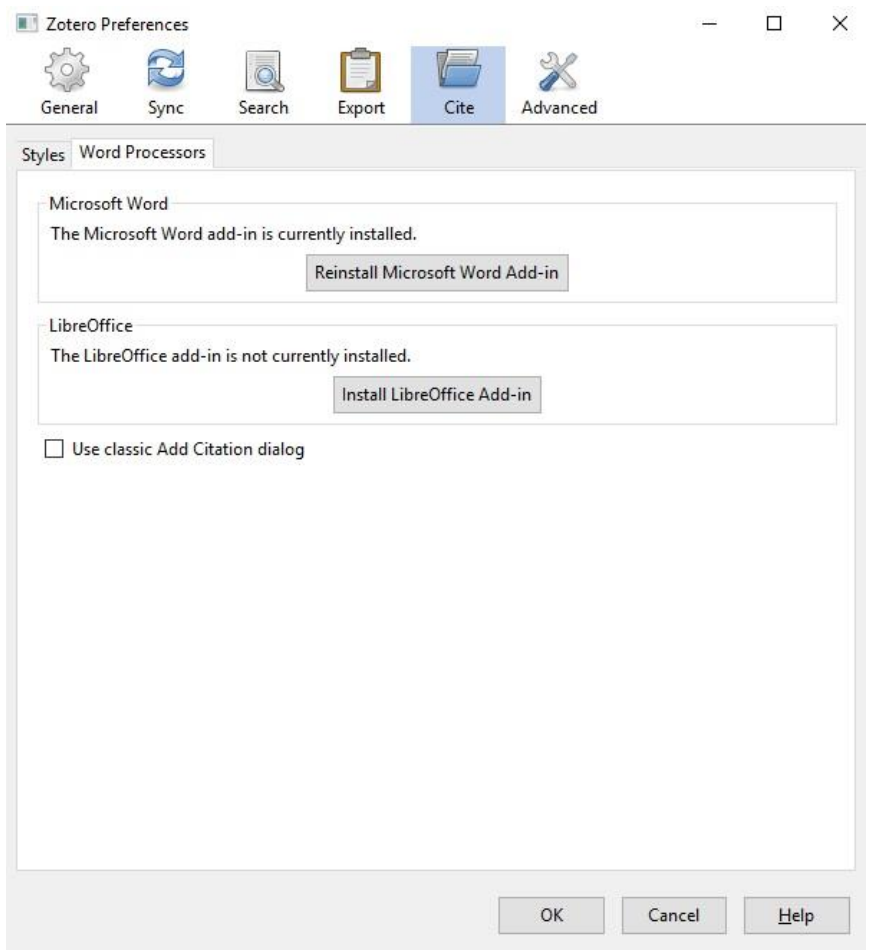
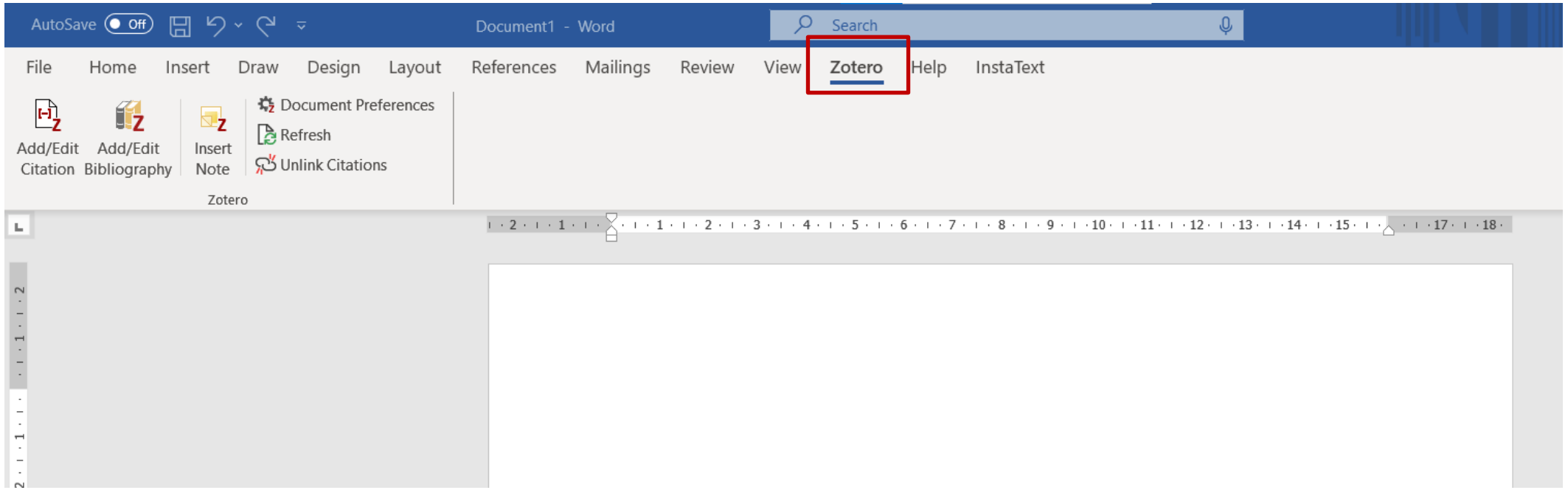


3.3.3 Creating your own database of references

Zotero Add-On for **MS Word**

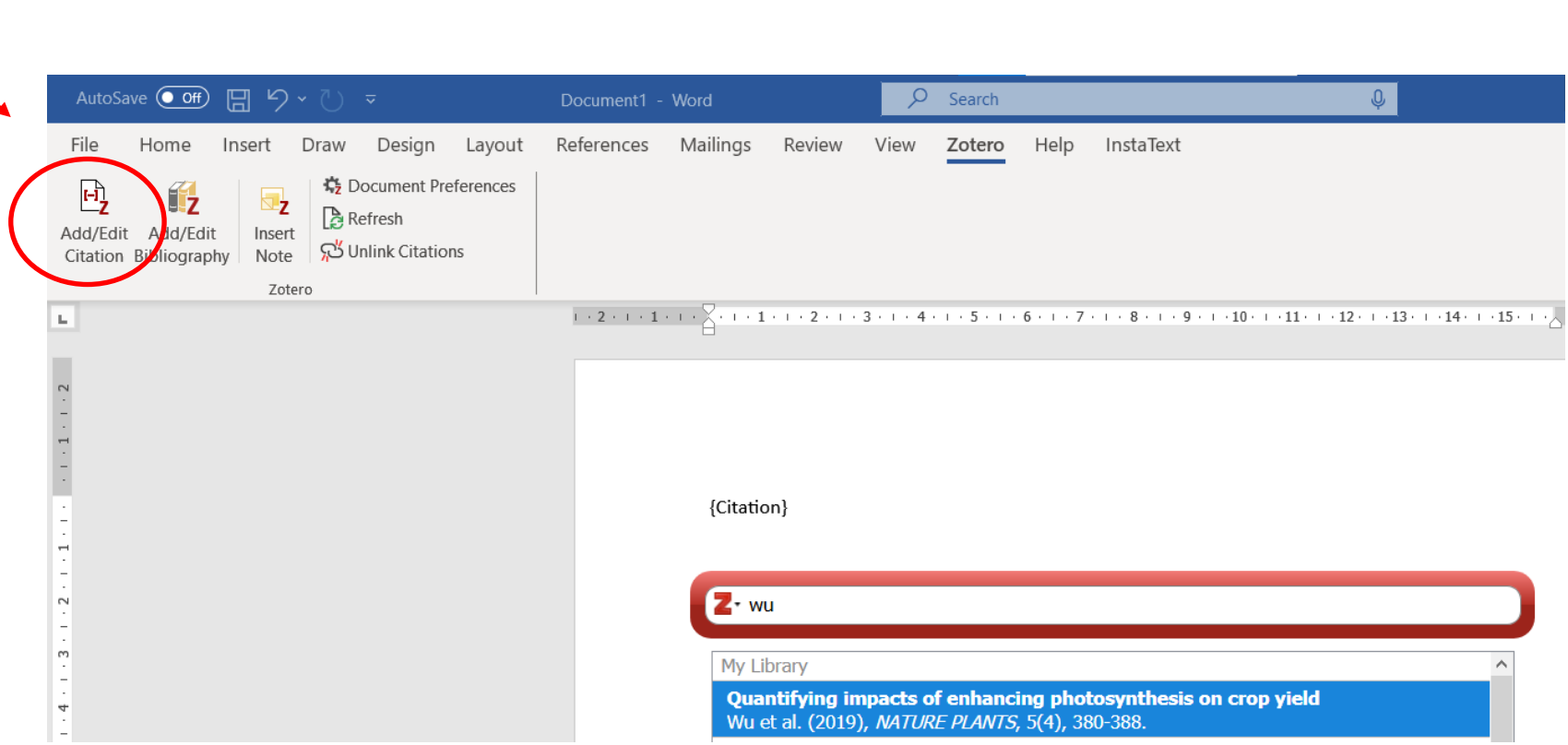


From now on, when opening Word, you'll see a new **Zotero tab** at the top of your Word document.

3.3.3 Creating your own database of references

In text citations

1. Make sure you have Zotero software **open** on your computer
2. Click **Add/Edit citation** button
3. Choose the citation style
4. Another window will appear where you can start typing author or the article title
5. Press enter
6. Citation will be **incorporated** to the text
7. You can create bibliography clicking **Add/Edit bibliography**
8. In order to keep your reference list updated click **Refresh**



For questions about homework, you can contact me on:
kurtovik@natur.cuni.cz

3.3.3 Homework 1 – example from last year

Practical basis of scientific work – Homework 1

Subject: The principle of viral infection with COVID-19 in humans.

In December 2019, a pneumonia outbreak in China was caused by a new coronavirus, which was named COVID-19[1]. One of the first cluster was linked to a seafood market in Wuhan[2], China, but the virus quickly spread in the next months to the country[3], and then the entire world. The COVID-19 coronavirus infecting humans, after full genome sequencing showed to be very similar to a bat coronavirus, which was thought as the probable origin of the virus[4]. The infection caused severe respiratory illness[5], with potential risk factors, like older ages[6] and comorbidities[7]. Important structural analysis suggested that COVID-19 could bind to the angiotensin-converting enzyme 2 (ACE2) receptors in humans[8,9] for cell-entry. COVID-19 uses its spike proteins in order to bind with those receptors, primarily in the respiratory system. Once the virus is attached, it fuses with the cell membrane and releases its genetic material inside the cell. It also depends on the serine protease TMPESS2 for S protein priming, that can be clinically inhibited[8]. The priming of coronavirus S proteins by host cells protease is vital for viral entry into cells because it facilitates the fusion of the viral membrane with the host cell membrane. The understanding of the principle of the viral infection was shown vital for the development of safe and efficient mRNA vaccines later on[10].

1. Wu, F. *et al.* A new coronavirus associated with human respiratory disease in China. *Nature* **579**, 265–269 (2020).
2. Zhu, N. *et al.* A novel coronavirus from patients with pneumonia in China, 2019. *N. Engl. J. Med.* **382**, 727–733 (2020).
3. Wu, Z. & McGoogan, J. M. Characteristics of and Important Lessons from the Coronavirus Disease 2019 (COVID-19) Outbreak in China: Summary of a Report of 72314 Cases from the Chinese Center for Disease Control and Prevention. *JAMA - J. Am. Med. Assoc.* **323**, 1239–1242 (2020).

Write cca 10 sentences about a topic.

In-text citations using a reference manager.

Generate bibliography using reference manager.