

# 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**

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The screenshot shows the Oxford Academic website for The Plant Cell journal. At the top, there is the Oxford Academic logo and navigation links for 'Sign In' and 'Register'. The main header includes the journal title 'THE PLANT CELL' and the American Society of Plant Biologists logo. Below the header is a navigation menu with options: 'Issues', 'More Content', 'Submit', 'Purchase', 'Alerts', and 'About'. A search bar is present with the text 'All The Plant Cell' and an 'Advanced Search' button. A banner for 'COVID-19 - Support for our author and subscriber community' is displayed. The main content area features three promotional boxes: 'Latest Issue' (Volume 33, Issue 11, November 2021), 'Call for papers for upcoming focus issues' (encouraging submission of outstanding research), and 'Call for Papers' (2023 Focus Issue on Climate Change and Plant Stress: From Genes to Ecosystems, submission deadline May 1, 2022).

# 3.3 How to search bibliographic records and full text articles?

Literature searching using the bibliographic database

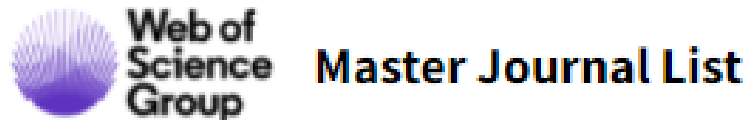
**Complete** information

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



## Scopus



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## 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



The DOI Foundation is a not-for-profit organization. We govern the Digital Object Identifier (DOI) system on behalf of the agencies who manage DOI registries and provide services to their respective communities. We are the registration authority for the ISO standard (ISO 26324) for the DOI system and we are governed by our Registration Agencies.

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# 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
Biblioscope	CG Information	1997	2015-06-22	10.0.3.6	US\$79-299 <sup>[1]</sup>	No	Proprietary
BibSonomy	University of Kassel	2006-01	2019-12-11	3.9.2	Free	Yes	AGPL, GPL, LGPL <sup>[2]</sup>
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 <sup>[3]</sup>	US\$59.99 <sup>[1]</sup>	No	Proprietary
Citavi	QSR International <sup>[4]</sup>	2006-02-13	2021-01-14	6.8.0.0	US\$89-1947 / Free for projects up to 100 references <sup>[5]</sup>	No	Proprietary
CiteULike	Oversity Limited	2004-11	Shut down in 2019-03-30 <sup>[6]</sup>		Free	No	proprietary <sup>[9]</sup>
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 <sup>[1]</sup>	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 <sup>[1]</sup> / 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 <sup>[11]</sup>	Free / Online storage free up to 300 MB / Additional storage space available	Yes	AGPL

[https://en.wikipedia.org/wiki/Comparison\\_of\\_reference\\_management\\_software](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



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With EndNote X9, you can leave behind the tedious work of formatting bibliographies, finding full text, and searching for references.

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#### MyEndNoteWeb

- provided by Clarivate
- freeware

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Quick Search  
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 Search

My References  
 All My References (616)  
 [Untitled] (268)  
 Quick List (0)  
 Trash (3) Empty  
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 Development (92)   
 FMs (42)  
 grantGAGR2010 (23)  
 Kap\_Springer\_1 (6)  
 Kaplita\_Springer (116)   
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 ResearcherID  
 My Publications (84)   
 Publication List 1 (0)  
 Publication List 2 (0)  
 Groups Shared by Others  
 FM (36)   
 JP1 (2)   
 JP3 (2)   
 JXB (43)  
 petrask@ueb.cas.cz (78)  
 Springer review (287)

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Page 1 of 13

Author	Year	Title
<input type="checkbox"/> Abas, L.	2006	Intracellular trafficking and proteolysis of the Arabidopsis auxin-efflux facilitator PIN1 Nature Cell Biology Added to Library: 07 Nov 2008 Last Updated: 20 Nov 2018 View in Web of Science Source Record, Related Records, Times Cited: 420 Full Text
<input type="checkbox"/> Adams, S.	2018	Effect of scion and graft type on transpiration, hydraulic resistance and xylem hormone Scientia Horticulturae Added to Library: 15 Nov 2017 Last Updated: 15 Nov 2017 Full Text
<input type="checkbox"/> Aoyama, T.	1997	A glucocorticoid-mediated transcriptional induction system in transgenic plants PLANT JOURNAL Added to Library: 16 Apr 2010 Last Updated: 16 Apr 2010 View in Web of Science Source Record, Related Records, Times Cited: 719 Full Text
<input type="checkbox"/> Bach, L.	2011	Very-long-chain fatty acids are required for cell plate formation during cytokinesis I Journal of Cell Science Added to Library: 02 Nov 2011 Last Updated: 02 Nov 2011 View in Web of Science Source Record, Related Records, Times Cited: 46 Full Text
<input type="checkbox"/> Badescu, G. O.	2006	Receptors for auxin: will it all end in TIRs? Trends in Plant Science Added to Library: 11 Feb 2009 Last Updated: 11 Feb 2009 View in Web of Science Source Record, Related Records, Times Cited: 95 Full Text
<input type="checkbox"/> Baillly, A.	2008	Modulation of P-glycoproteins by auxin transport inhibitors is mediated by interacti Journal of Biological Chemistry

# 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

The screenshot displays the Mendeley Reference Manager for Desktop interface. At the top, there is a navigation bar with links for 'Solutions', 'Support', 'Sign In', 'Create account', and a 'Download' button. The main heading reads 'Mendeley Reference Manager for Desktop' with a prominent 'Download now for Windows' button. Below this, it specifies 'Windows 7 and above See release notes'. The interface is divided into a sidebar on the left for 'My Library' and 'Other Systems: Mendeley Reference Manager', and a main content area on the right. The main area shows a list of documents with columns for 'File', 'Year', 'Published in', and 'Address'. A detailed view of a document is shown on the right, including an abstract and author keywords.



## 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

The screenshot displays the Zotero interface. At the top, the website header includes the Zotero logo and navigation links: Groups, Documentation, Forums, Get Involved, Log In, and Upgrade Storage. The main content area features the text "Your personal research assistant" and "Zotero is a free, easy-to-use tool to help you collect, organize, and share your research." Below this, a desktop application window is shown, displaying a library of books and a detailed view of a specific article.

The desktop application window shows a sidebar with a tree view of the library structure, including "My Library", "Book Reviews", "Colonial Medicine", "Dissertation", "Science and Empire", "Teaching", "Mapping", "Open Access", "Text Mining", "Visualization", "My Publications", "Duplicate Items", and "Trash". The main pane displays a list of bibliographic records with columns for Title, Creator, and Year. The selected record is "Circulation of Medicines in the Early Modern Atlantic World" by Cook and Walker, 2013. The right pane shows the details of this article, including the item type (Journal Article), title, author (Cook, Harold J. and Walker, Timothy D.), abstract, and publication information (Social History of Medicine, Volume 26, Issue 3, Pages 337-351, Date 2013/08/01).

# 3.3 How to search bibliographic records and full text articles?

## Finding full text of articles from journals or books



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### New resources

8.10.2021

[AccessPhysiotherapy](#)

30.9.2021

[JoVE Cancer Research](#)

online version of Encyclopedia of Experiments - Cancer Research

27.9.2021

[eHRAF World Cultures](#)

factual ethnographic database

27.9.2021

[eHRAF Archaeology](#)

factual archaeological database

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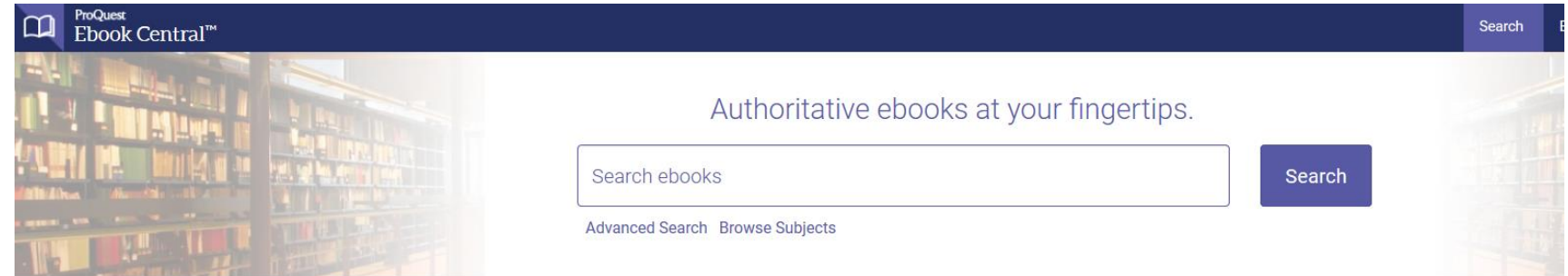


# 3.3 How to search bibliographic records and full text articles?

## Finding full text of articles from journals or books

### ProQuest Ebook Central

<https://ebookcentral.proquest.com/lib/cuni/home.action?ebraryDocId=null>



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## 3.3.3 Creating your own database of references

### How I used to keep track of my references

#### The old way

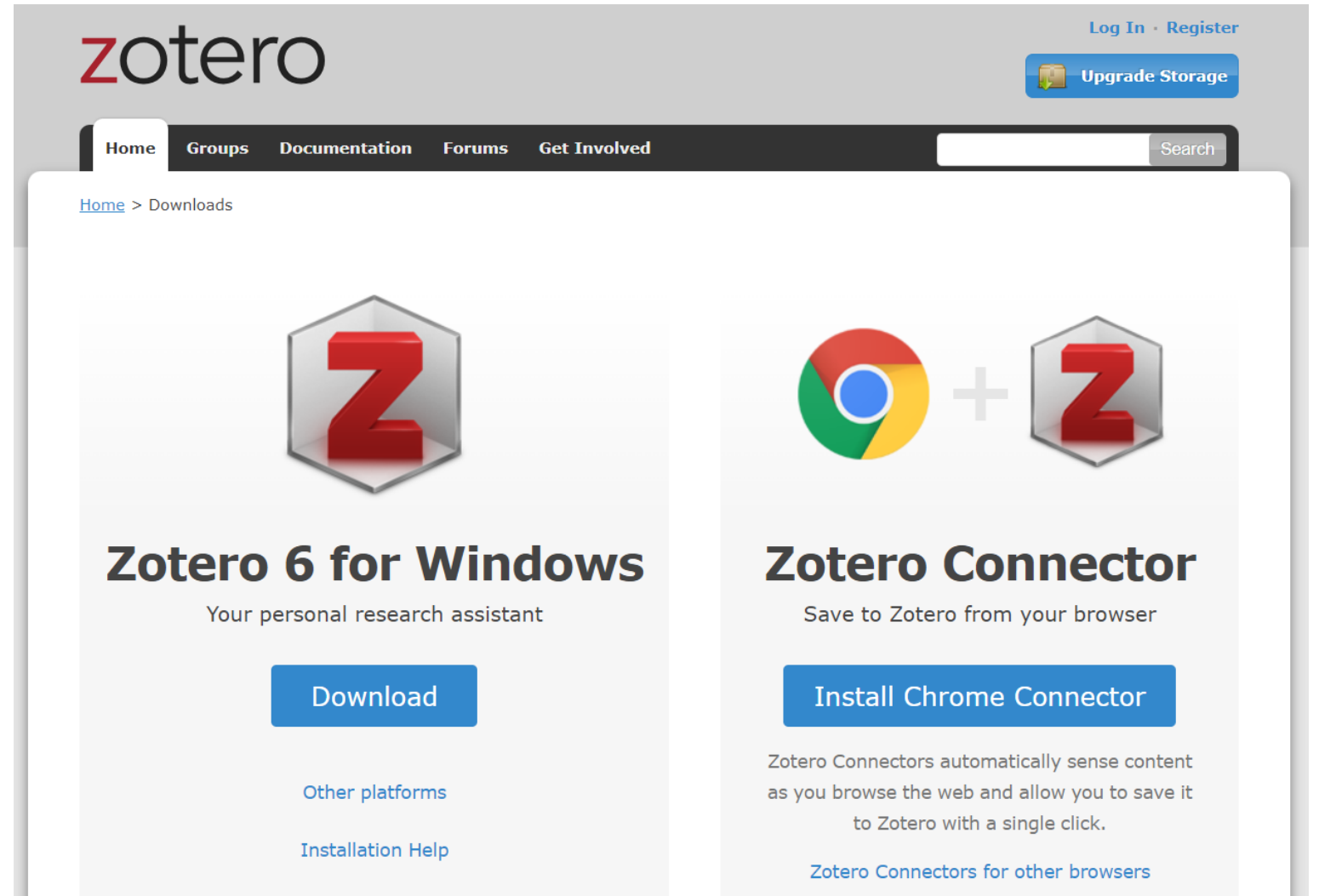
- messy, hard to navigate
- not very organized

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

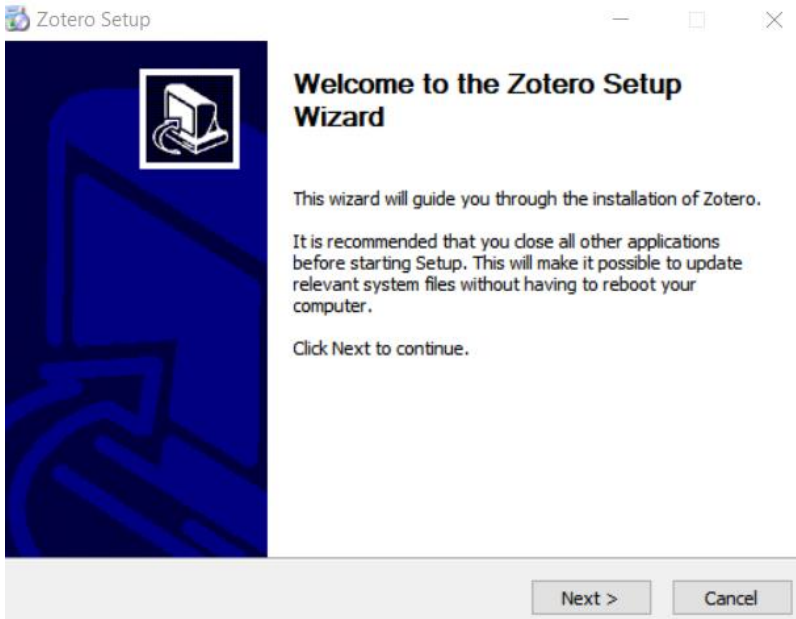
- my referencing software of choice is Zotero



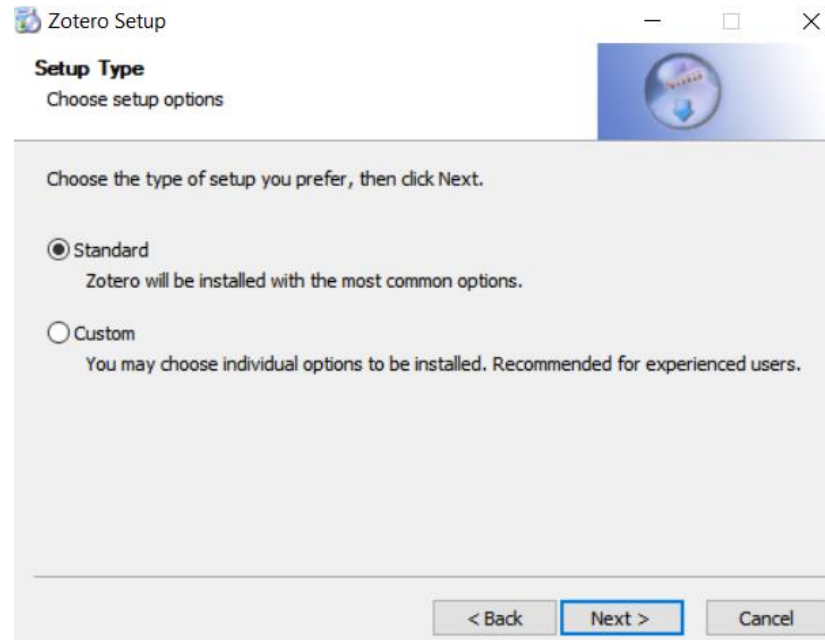
The screenshot shows the Zotero website's 'Downloads' page. At the top, the Zotero logo is on the left, and 'Log In · Register' and 'Upgrade Storage' buttons are on the right. A navigation bar includes 'Home', 'Groups', 'Documentation', 'Forums', and 'Get Involved', along with a search box. The main content area is titled 'Home > Downloads' and features two prominent cards. The left card is for 'Zotero 6 for Windows', described as 'Your personal research assistant', with a 'Download' button and links for 'Other platforms' and 'Installation Help'. The right card is for 'Zotero Connector', described as 'Save to Zotero from your browser', with an 'Install Chrome Connector' button and a description: 'Zotero Connectors automatically sense content as you browse the web and allow you to save it to Zotero with a single click.' Below this is a link for 'Zotero Connectors for other browsers'.

## 3.3.3 Creating your own database of references

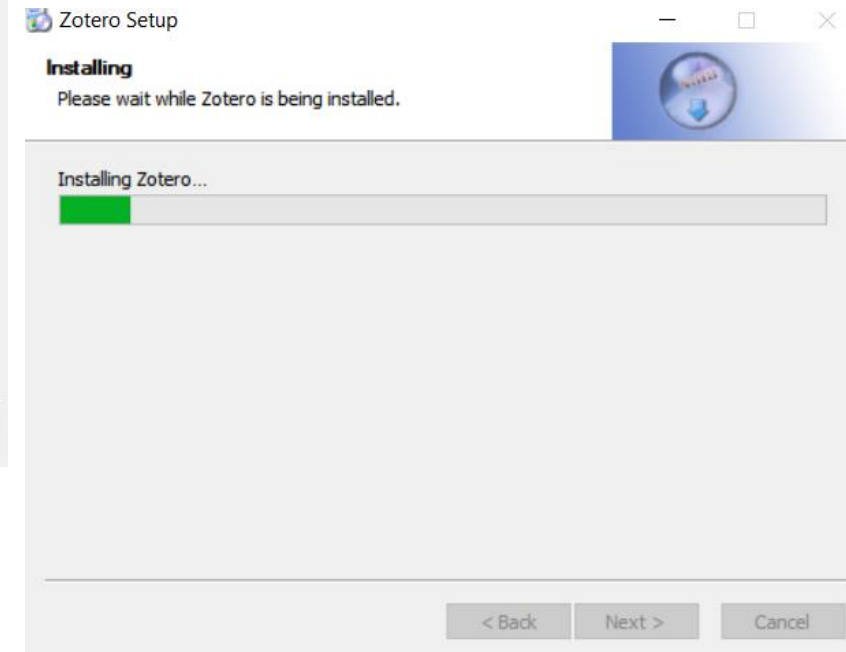
1.



2.

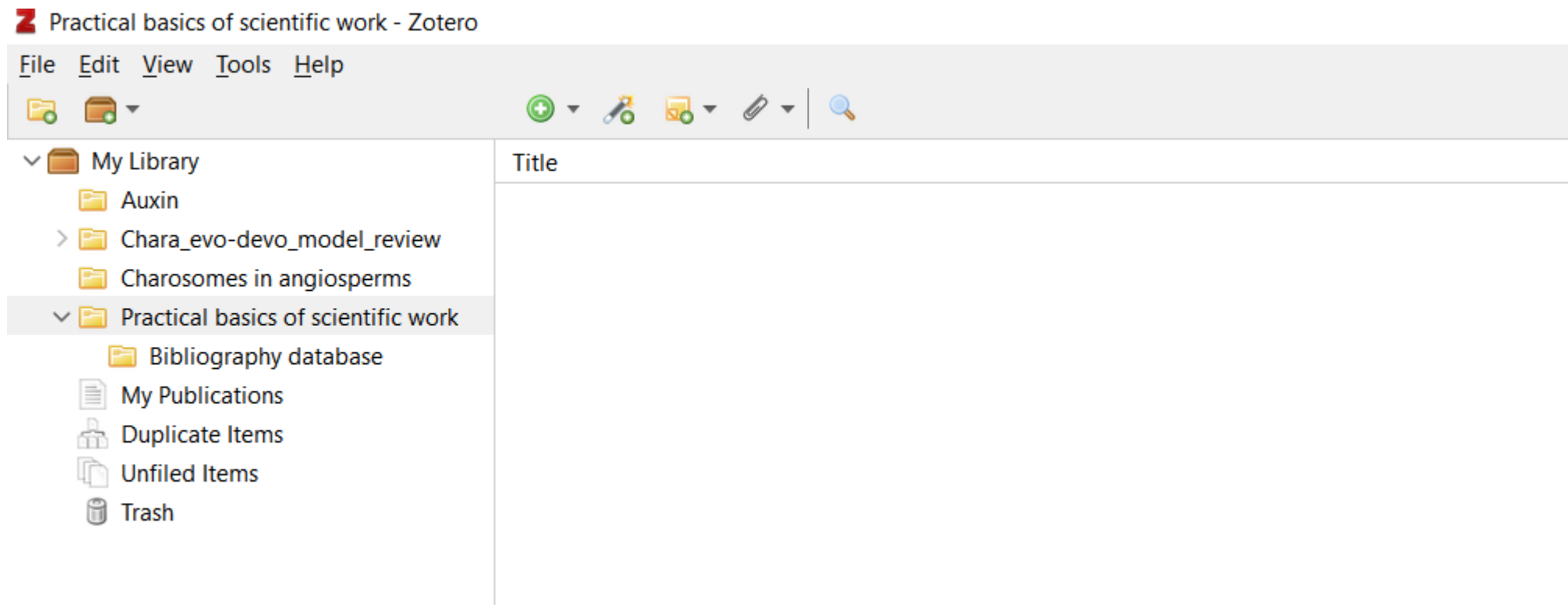


3.



## 3.3.3 Creating your own database of references

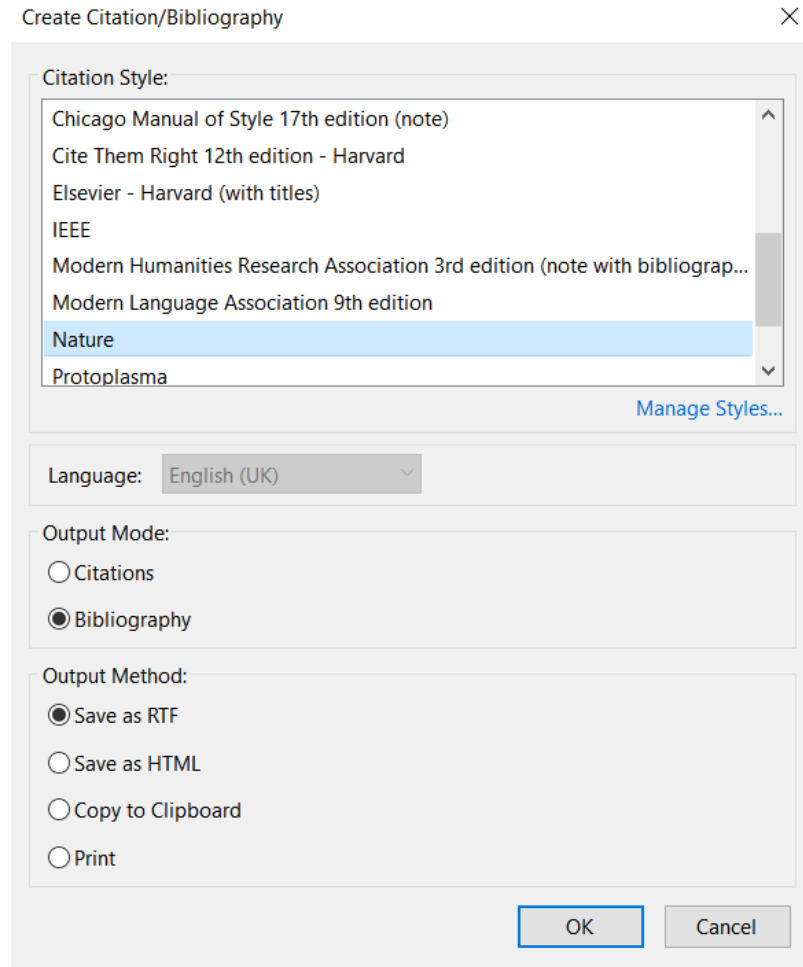
Creating folders and subfolders to keep your references organized



## 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**

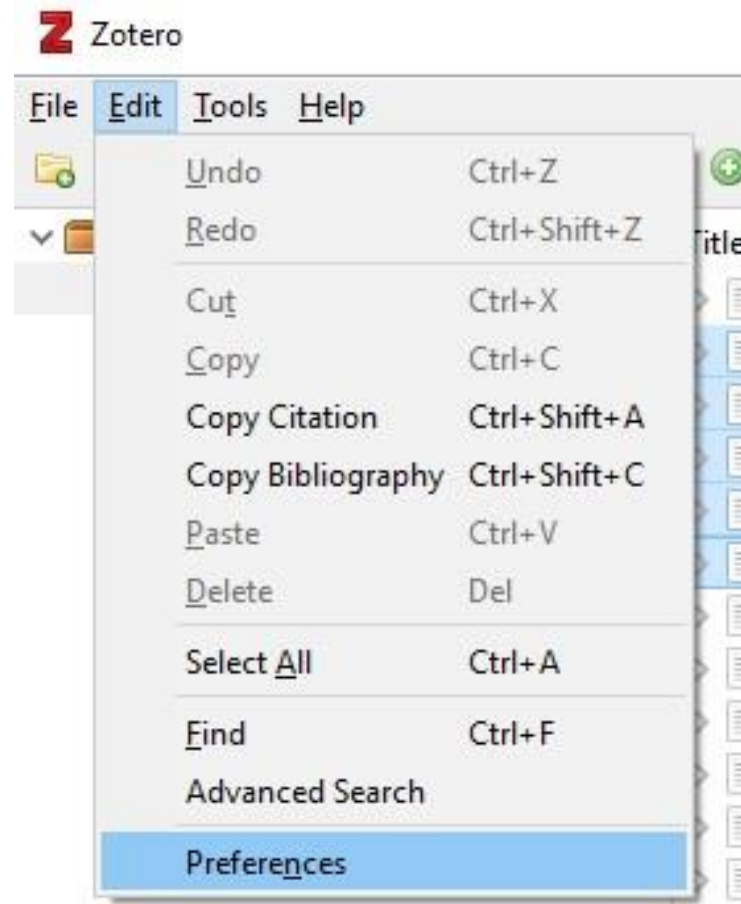
- the citation style sometimes depends on the academic discipline involved or a publisher/journal

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

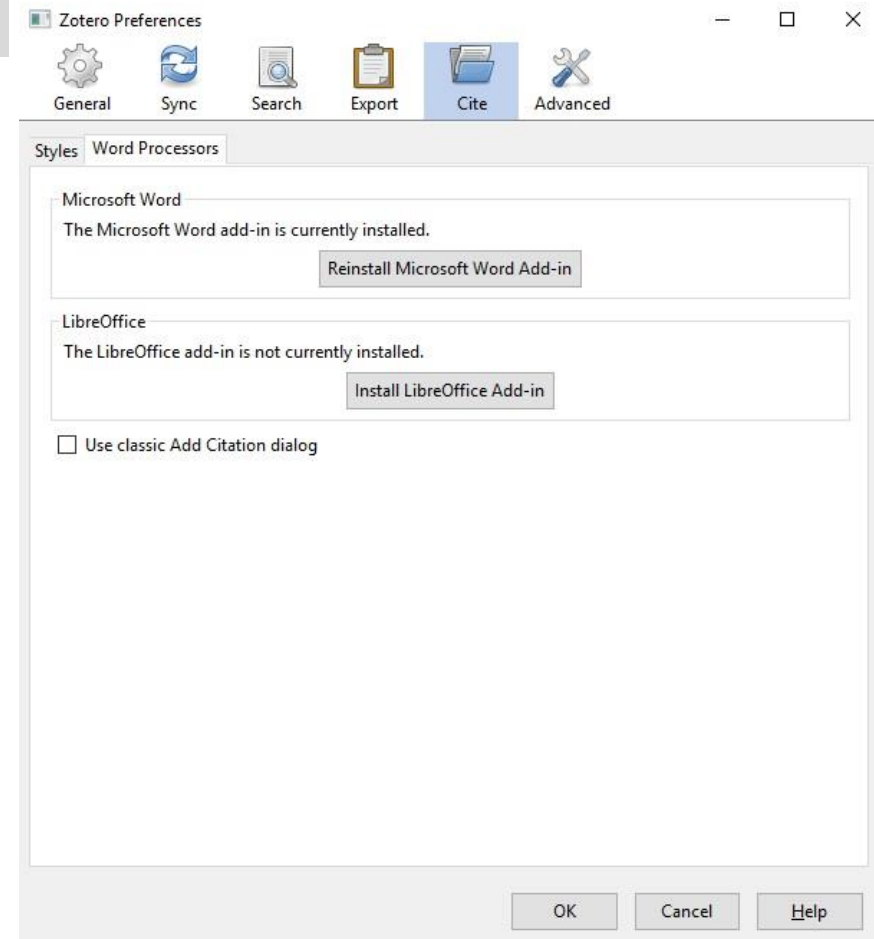
## 3.3.3 Creating your own database of references

### Zotero Add-On for **Word**

1.

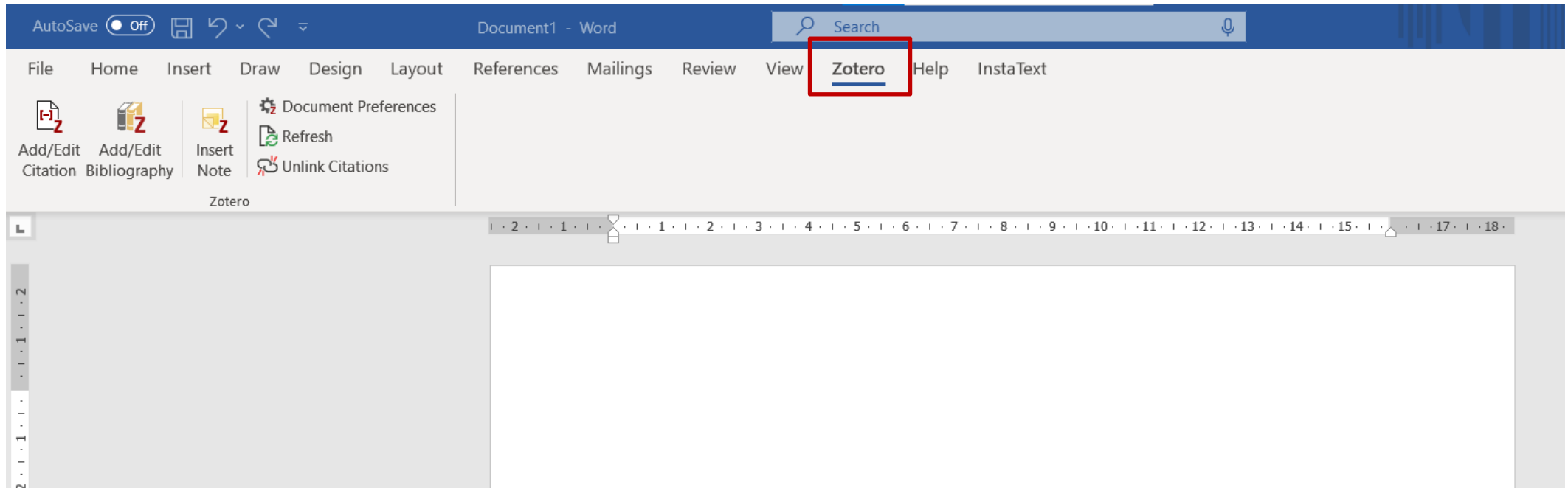


2.



## 3.3.3 Creating your own database of references

### Zotero Add-On for MS Word



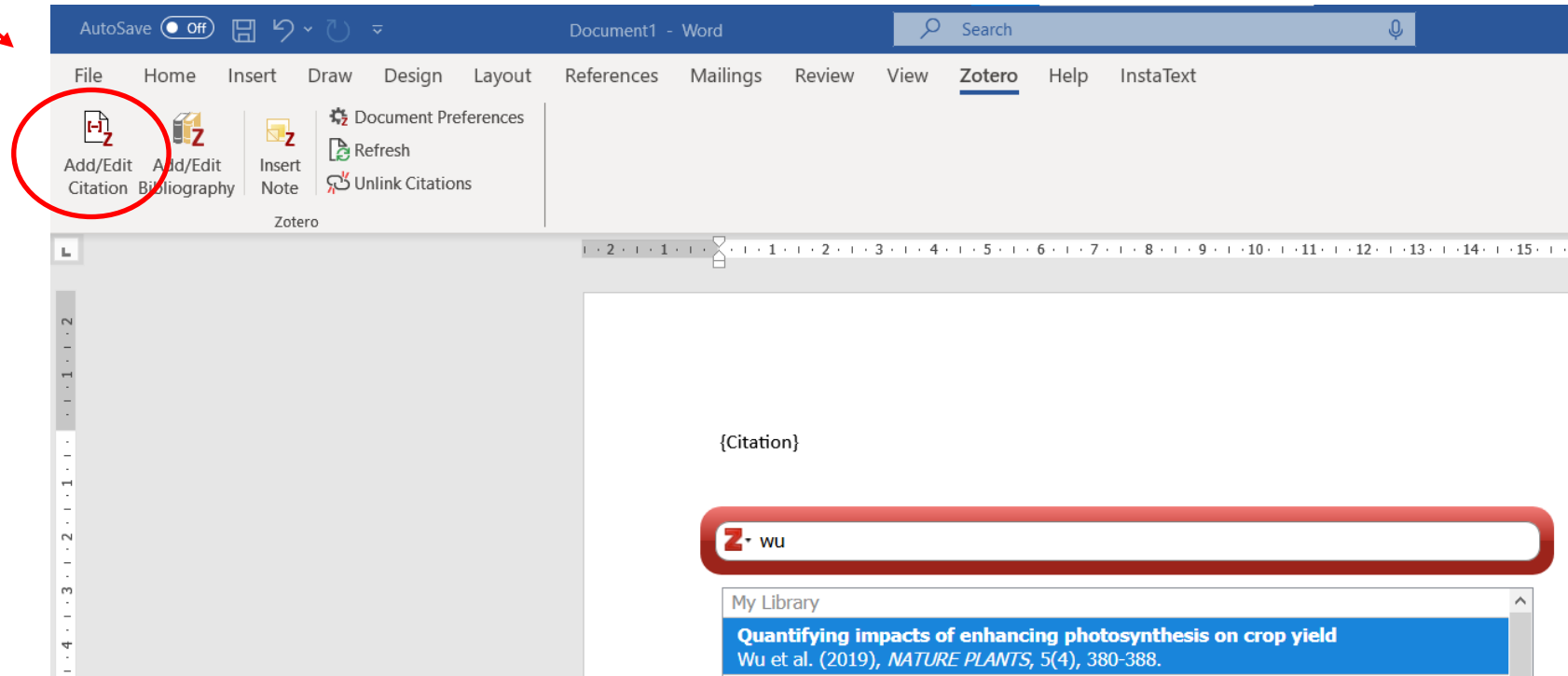
From now on, when opening Word, you'll see a new **Zotero tab** at the top of your Word document.



## 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](mailto: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<sup>1</sup>. One of the first cluster was linked to a seafood market in Wuhan<sup>2</sup>, China, but the virus quickly spread in the next months to the country<sup>3</sup>, 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<sup>4</sup>. The infection caused severe respiratory illness<sup>5</sup>, with potential risk factors, like older ages<sup>6</sup> and comorbidities<sup>7</sup>. Important structural analysis suggested that COVID-19 could bind to the angiotensin-converting enzyme 2 (ACE2) receptors in humans<sup>8,9</sup> 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 TMPPESS2 for S protein priming, that can be clinically inhibited<sup>8</sup>. 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<sup>10</sup>.

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.