

NTK

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Národní technická knihovna

National Library of Technology

Web of Science & Scopus II:

Using Citation Databases to Foster Your Research

Alena Chodounská, Eli Blažků
May 2022



What did we learn last week

Introduction to Web of Science & Scopus

(April 26, 2022)

- Topic search
- Combining keywords & using filters
- Getting PDFs
- Managing results & downloading citations
- Searching for journals, authors, and their metrics

→ Review [materials from webinar](#) in NTK Moodle

→ [Schedule a consultation](#)

Introduction to Web of Science & Scopus

Lectors: [Eli Blažků](#) and [Jan Polášek](#)

April 26, 2022

WEBINAR SLIDES



[Introduction to WoS and Scopus](#)

Presentation that includes step-by-step instructions for using Web of Science and Scopus.

ACCESS TO WEB OF SCIENCE & SCOPUS

- For **off-campus access** to Web of Science and Scopus, consult your library or university
 - [NTK](#), [CTU](#), [UCT & IOCB](#), [Charles University](#), [CTU](#)
- The list of journals (including citation metrics) is freely available:
 - [Scopus Sources](#)
 - [Web of Science Master Journal List](#) (for access to impact factors, free registration is required)

RECOMMENDED RESOURCES

- [Web of Science training videos: Web of Science Search tips](#), [New Web of Science series](#)
- [Scopus training videos: How to make corrections to your author profile](#)
- [Comparing Citation Analysis Sources \(University of Michigan Library\)](#)

Outline

- Usage of citation databases in Czech R&D evaluation system
- Review: citation databases
- Advanced search and results analysis
- Journal metrics
- Managing author profiles and identifiers
- Options for exploring potential target journals and conference
- Getting assistance

Usage of citation databases in the Czech R&D evaluation system

Czech R&D evaluation system

- Official government methodology: *Methodology for Evaluating Research Organisations and Research, Development and Innovation Purpose-tied Aid Programmes* ([M17+](#))
- Developed by RVVI (*Rada pro výzkum, vývoj a inovace*)
- Results submitted by institutions to government repository: RIV (*Rejstřík informací o výsledcích*)
- The results are, among other things, used for distributing money to research institutions.

- This methodology is also used:
 - When applying for a Czech Science Foundation grant
 - For promotions in academia (e.g., to full professor)

Become familiar with the internal policies of your institution, if you wish to pursue a career in academia.

Definition of result types in Czech R&D evaluation

Publication type	RIV code	Note
Book	B	
Book Chapter	C	
Proceedings paper	D	Conference has to be indexed in WoS or Scopus
Journal paper		
• Indexed in WoS	J _{imp}	
• Indexed in Scopus	J _{sc}	
• Other	J _{ost}	Scientific journals not indexed in either citation database

There are also categories for types of results that are not publications for researchers working in applied areas: *patents, technological processes, breeds, cultivars, utility models, prototypes, changes in policy or laws, methodologies, medical guidelines, and so on.*

San Francisco Declaration on Research Assessment (DORA)

- Released in 2012
- Recommendations to organizations and to people directly involved in the scientific process (scientific institutions, publishers, citation databases, researchers)
- Calls for changes in evaluation of science
 - Stop using impact factor as the sole indicator of quality of a journal/published article
 - Evaluating research “on its own merits”
 - Capitalize on opportunities online publishing provides
- The Czech M17+ methodology is based on DORA

Journal metrics

Checking journal metrics

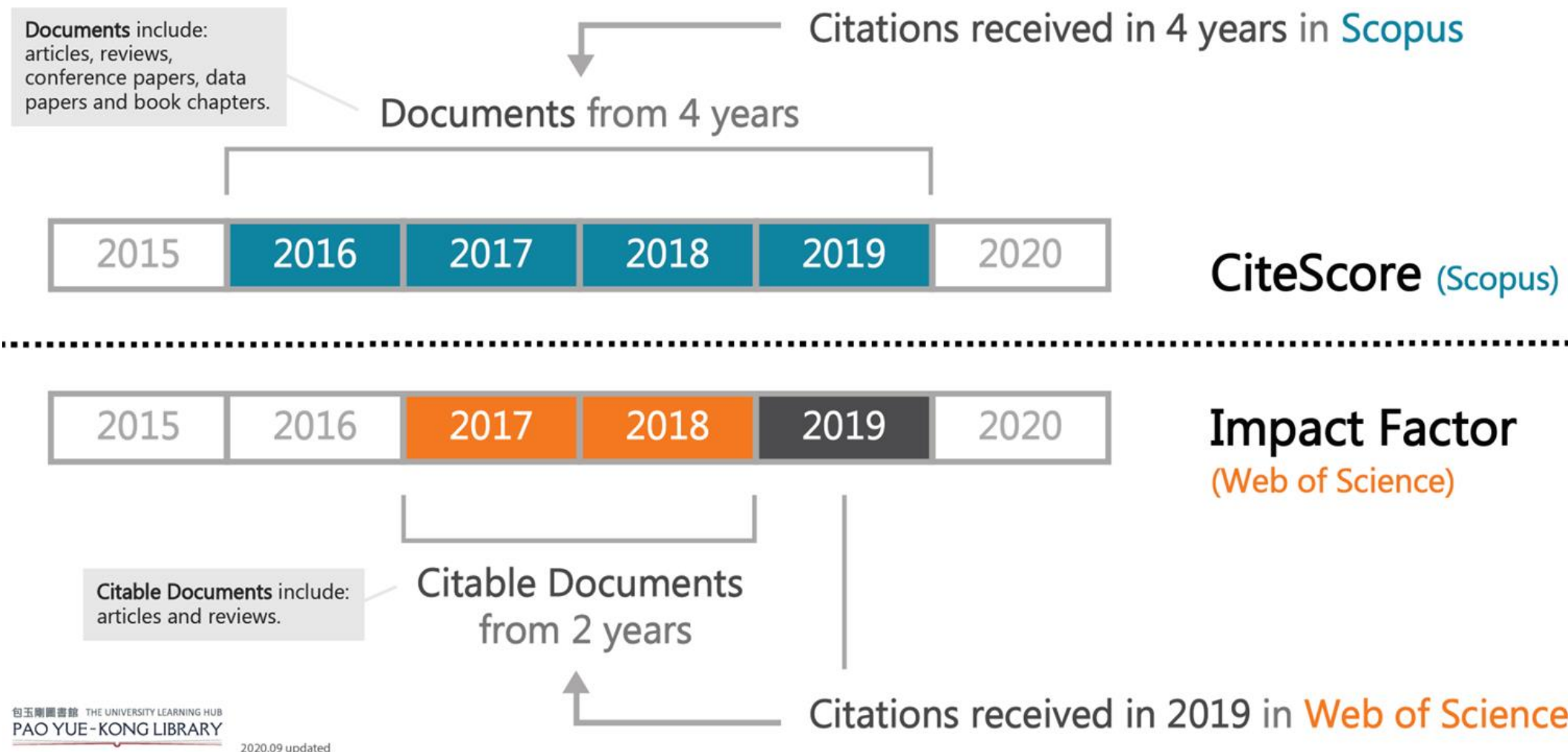
- Choose relevant metric
- Consider comparability of journals across disciplines
 - Within one field vs. field weighted metrics
 - Field-specific citation customs

Most common journal metrics in Web of Science and Scopus

Metrics	Web of Science	Scopus	Database independent
Absolute metric	Journal Impact Factor (JIF)	CiteScore	
Field weighted metric	Journal Citation Indicator (JIC) ¹	Source Normalized Impact per Paper (SNIP)	Eigenfactor

1) In-depth article [Journal Citation Indicator. Just Another Tool in Clarivate's Metrics Toolbox?](#) on The Scholarly Kitchen

Updated CiteScore calculation



Journals ranking by quartiles and deciles (Scopus)

CASE STUDY #1: I want a list of all journals that are in the **top 10%** in the field of **economics**

Scopus Sources

1. Select proper subject area to see **all journals in your field**
2. Use the filters to display specific quartile or first decile (top 10 percent)
3. Apply

The screenshot shows the Scopus Sources interface. The 'Subject area' dropdown menu is open, displaying a list of subject areas. 'Insect Science' is selected, indicated by a red arrow and the number '1.'. The 'Filter refine list' section shows the 'Apply' button highlighted with a red box and the number '3.'. The 'Display options' section shows the 'Citescore highest quartile' filter set to '2nd quartile', also highlighted with a red box and the number '2.'. The 'Apply' button for the filter is also highlighted with a red box.

Scopus

Search Sources Lists SciVal

Sources

Subject area Enter subject area

Filter refine list

3. Apply Clear filters

Display options

☐ Display only Open Access journals

Counts for 4-year timeframe

☒ No minimum selected

☐ Minimum citations

☐ Minimum documents

Citescore highest quartile

☐ Show only titles in top 10 percent

☐ 1st quartile

☒ 2nd quartile

☐ 3rd quartile

☐ 4th quartile

1. Agricultural and Biological Sciences

- ☐ Agricultural and Biological Sciences (miscellaneous)
- ☐ Agronomy and Crop Science
- ☐ Animal Science and Zoology
- ☐ Aquatic Science
- ☐ Ecology, Evolution, Behavior and Systematics
- ☐ Food Science
- ☐ Forestry
- ☐ General Agricultural and Biological Sciences
- ☐ Horticulture
- ☒ Insect Science
- ☐ Plant Science

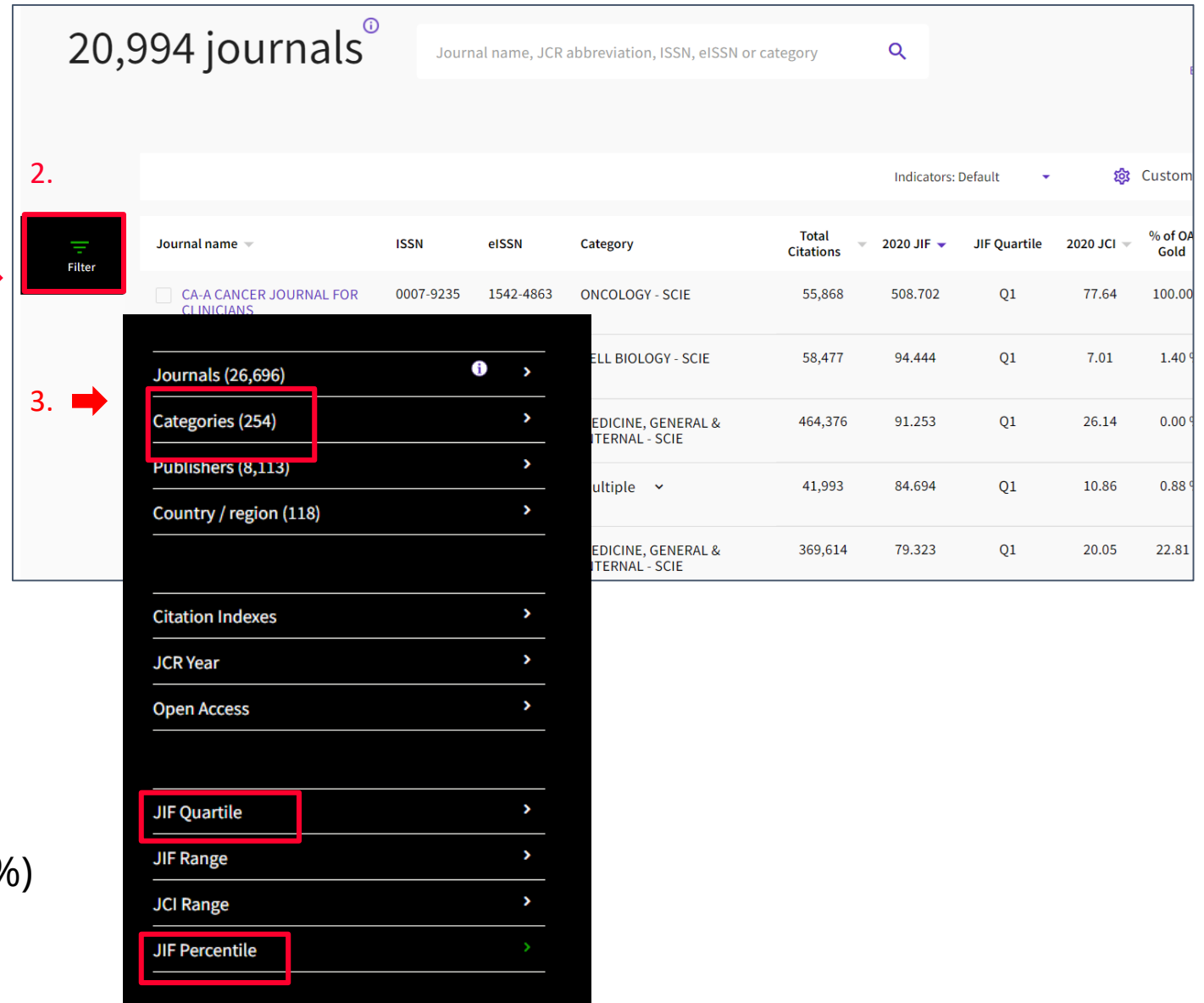
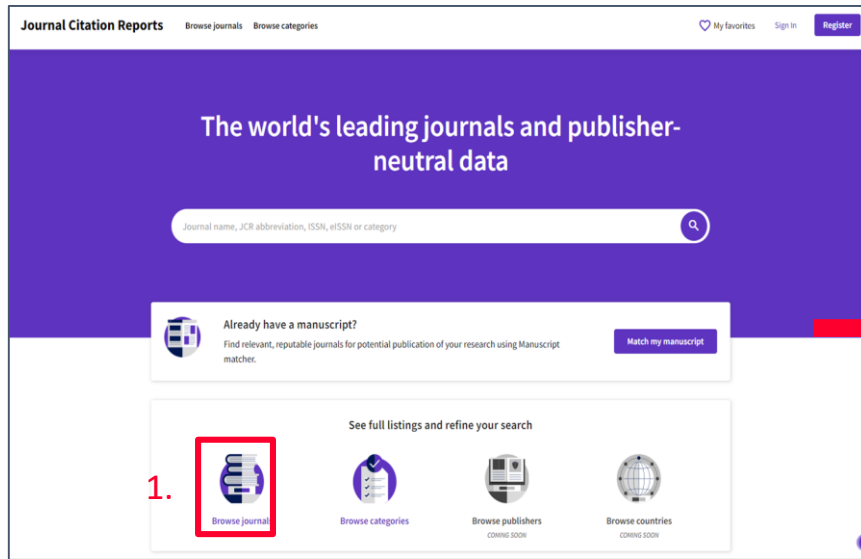
Apply

Download Scopus S

ore ↓ Highest percentile ↓

99%	1/340	Oncology			
99%	1/292	Materials Chemistry			
3	Nature Reviews Molecular Cell Biology	99.7	99%	1/382	Molecular Biology
4	Chemical Reviews	96.9	99%	1/398	General Chemistry

Journals ranking by quartiles and deciles (Web of Science)



Journal Citation Reports

1. Choose the *Browse journals* module
2. Filter your discipline by *Categories*
3. Filter the requested ranking
 - a) Quartile: Filter by *JIF Quartile*
 - b) Decile: Filter by *JIF Percentile*(1. decile – from 90 to 100%)

Potential traps

- Misuse of metrics
- Changes over time (e.g., partly-indexed journals)
- Predatory journals
 - Using titles that are intentionally, easily interchangeable with respected journal titles
 - Presenting their own, fake metrics

Searching

Searching

CASE STUDY #2: I need to find high quality sources for my dissertation about
"Utilization of captured carbon"

15,199 results from Web of Science Core Collection for:

Q "Carbon capture" OR "carbon utilization" (All Fields) [Analyze Results](#) [Citation Report](#) [Create Alert](#)

[Copy query link](#)

[Publications](#) [You may also like...](#)

Refine results

Search within results for...

Quick Filters

- ☒ Highly Cited Papers 231
- ☐ Hot Papers 2
- ☒ Review Articles 971
- ☐ Early Access 114
- ☐ Open Access 5,895
- ☐ Associated Data 170

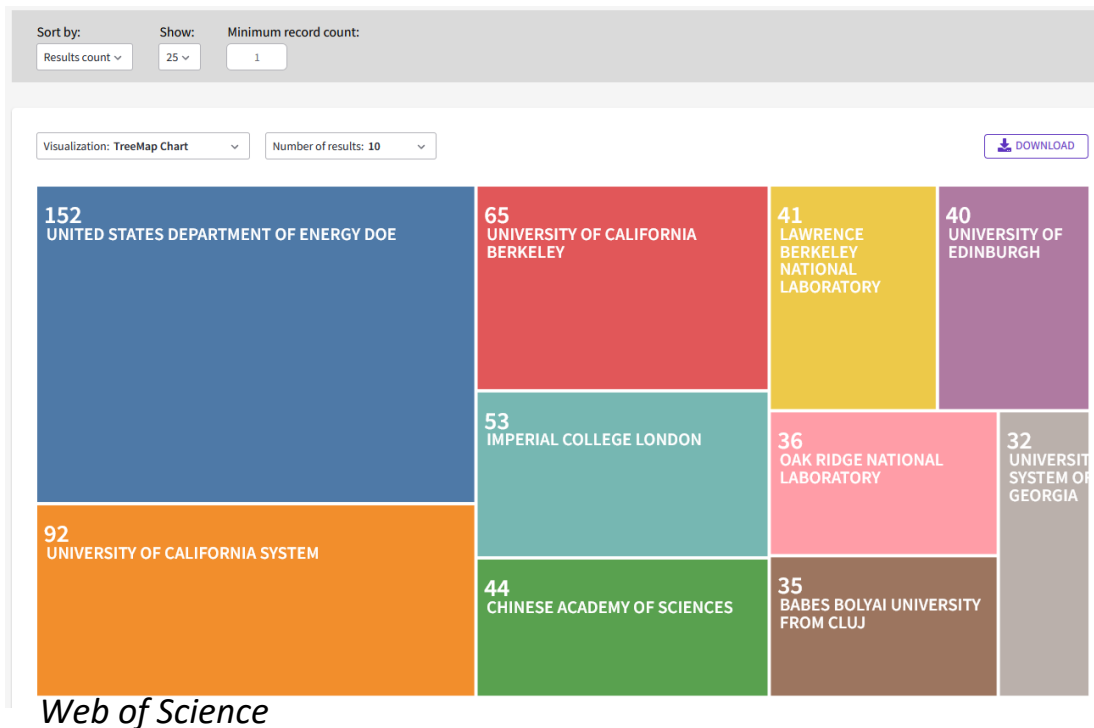
0/15,199 [Add To Marked List](#) [Export](#) [Sort by: Relevance](#) 1 of 304

1 **Protein-based carbon capture: progress and potential**
[Drummond, ML](#); [Cundari, TR](#) and [Wilson, AK](#)
Aug 2012 | [GREENHOUSE GASES-SCIENCE AND TECHNOLOGY](#) 2 (4) , pp.223-238

Increasing atmospheric levels of CO₂ and potential resulting climate changes require new, innovative solutions. As currently employed, carbon capture and sequestration (CCS) technology is unable, by orders of magnitude, to cope with the tremendous (and increasing) amount of anthropogenic CO₂ emissions. In the biosphere, enzymatic CCS captures more than quadruple the amount of CO₂ emitted by human activity, and so ... [Show more](#)

[SFX](#) [Full Text at Publisher](#) [Related records](#)

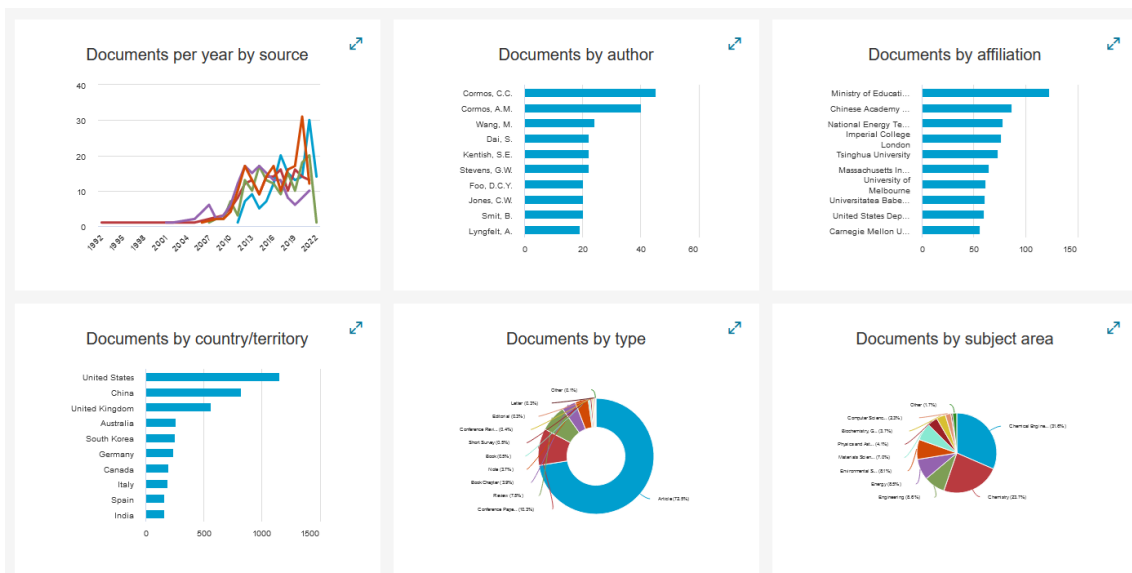
7 Citations
74 References



The power of results analysis

The analytic module helps you identify:

- Leading authors
- Leading/target journals
- Conference proceedings related to your topic (cross disciplinary)
- Institution for internships and/or job opportunities
- Emerging trends



Scopus

Advanced search

- Write complex queries easily
- Manage and combine your searches
- Easily save searches as alerts
- Combine with results analytics

CASE STUDY #3: I want to find out **who** is publishing most papers about **cryptocurrencies** in the **Czech Republic**

Query Preview

((TS=(cryptocurrenc*) OR TS=("crypto currenc*")) AND CU=("Czech republic" OR Czechia)))

+ Add date range

X Clear

Search

< Basic Search Advanced

Search tips ?

Enter query string

(TITLE-ABS-KEY(cryptocurrenc*) OR TITLE-ABS-KEY("crypto currency")) AND AFFILCOUNTRY("Czech republic" OR Czechia)

Outline query

Add Author name / Affiliation

Clear form

Search Q

Managing author profiles and identifiers

Author identifiers

Author identifiers give you the ability to reliably distinguish two authors with the same name, or to track one author across multiple databases.

- Names are sometimes complicated; there are different ways to write/transliterate them
- Names are not unique
- People can change their names

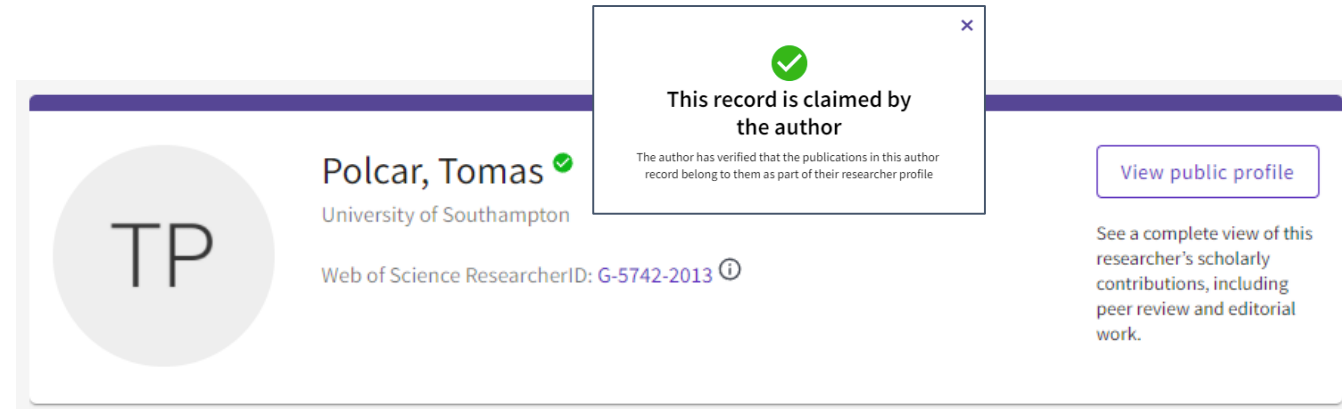
Supporting platforms	Web of Science	Scopus	ORCID ¹
Identifier	ResearcherID (Managed via Publons for now ²)	Scopus ID (Managed via Scopus)	ORCID iD

1) ORCID (Open Researcher & Contributor ID) is an open non-profit initiative

2) Publons profile is expected to be moving to the Web of Science during April-May 2022

Author profiles in citation databases

- **An author profile** is automatically generated by a citation database when the first article by a new author is indexed
 - The second and subsequent articles are assigned to the existing author based on matches in name, affiliation, and field/discipline
 - Mistakes can easily occur
- An author can claim a profile and then curate it, merge duplicate profiles, and connect their profile to an ORCID ID



Claimed author profile on Web of Science



Automatic profile created by Scopus

Scopus ID & author profile

A **Scopus ID** is created automatically once the author's first article is indexed in Scopus

→ Search your name in Scopus to find your Scopus ID, if you have published in something indexed by Scopus

Editing your Scopus profile

Scopus account registration is necessary to manage your author profile:

- [Edit profile using the Author Feedback Wizard](#) (updating author details and adding/removing documents, preprints and grants)
- [Request merging author name variants](#)
- [Connect your Scopus profile to ORCID](#)

Use [Scopus Contact Form](#) for more complex requests

This author profile is generated by Scopus [Learn more](#)

Chodounská, Alena

[National Library of the Czech Republic, Prague, Czech Republic](#) [Show all author info](#)
[sc](#) 57193268597 [id](#) <https://orcid.org/0000-0002-5240-9882>

[Edit profile](#) [Set alert](#) [Potential author matches](#) [Export to SciVal](#)

Sign in or create account

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[Sign in or create account](#)

Most c

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1 docum

Citations

Chodounská, Alena

Author details

Preferred Name
Chodounská, Alena

Current affiliation
National Library of the Czech Republic

Documents

Review and remove any documents that do not belong to this profile

Sort by [Year \(newest\)](#)

Document title	Authors	Source	Year
Assessing awareness of library services: An ethnographic examination of bachelor students at two Czech technology universities	Chodounská, A., Krueger, S.	Communications in Computer and Information Science 676, pp. 729-739	2016

× Remove from profile [△](#) At least one must remain

< Previous 1 Next >

Display [10 results](#)

[i](#) Are any documents missing? [Search for missing documents on Scopus](#)

ResearcherID & Publons profile (up to April/May 2022)

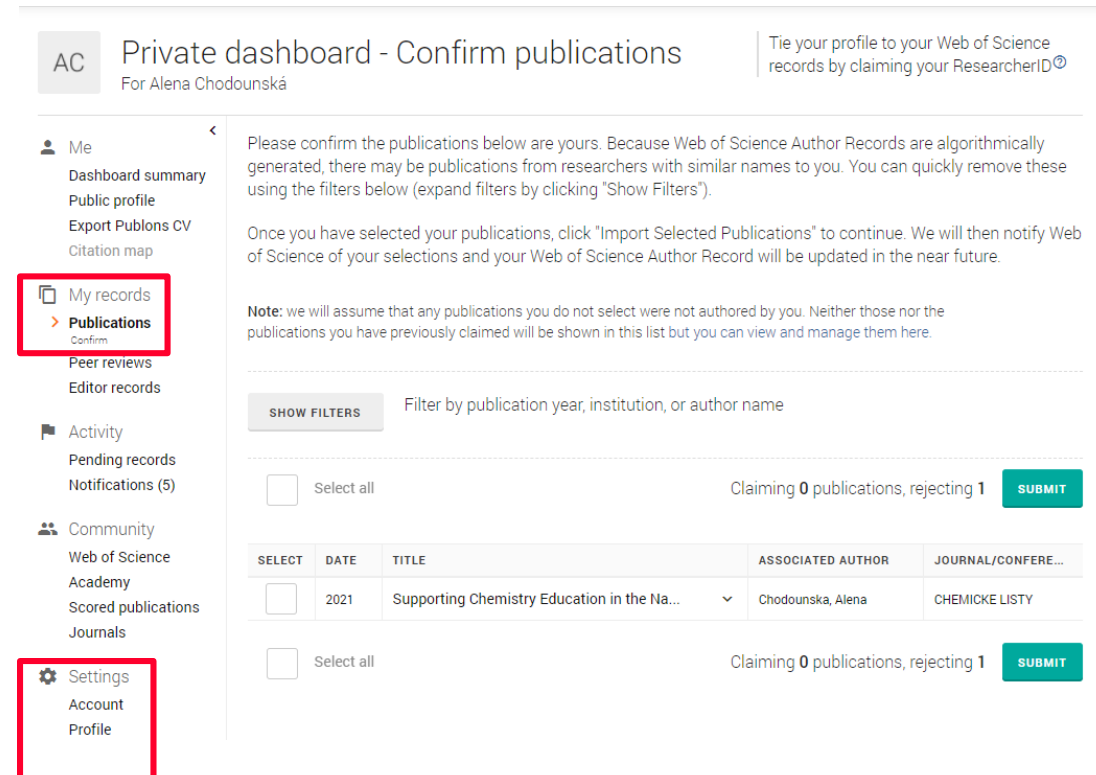
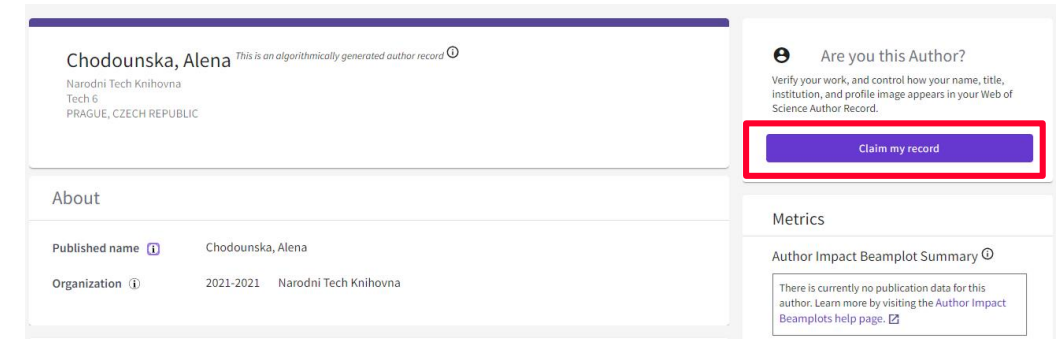
A **ResearcherID** is assigned to your [Publons profile](#) when at least one of your publications is indexed in WoS and imported to Publons

→ Search for your name in WoS to claim your record via your Publons profile

Editing your Publons profile

You can use your credentials from other Clarivate Analytic platforms (Web of Science/EndNote) to sign into Publons

- Manage your author profile (updating your author details, adding/removing documents)
- Merge duplicate profiles
- [Integrate your Publons profile with ORCID](#)



Options for exploring potential target journals and conferences

How to find high-quality journals and conferences

1. **Ask your mentor and/or peers**

2. **Use citation databases**

- **Find the best journals** in the list of journals (according subject area).
The lists of journals are openly available at: [Scopus Sources](#) or [Web of Science Master Journal List](#) (for access to impact factor, free registration is required)
- **Analyze topic search results:** Use categories: *Publication titles/Conference titles* (WoS), *Documents per year by source* (Scopus)

3. **Try recommender services** such as those from [Elsevier JournalFinder](#), [WoS Manuscript Matcher](#)

4. **Use Inspec Analytics** (for physics, electrical engineering, computer science)

Web of Science Manuscript Matcher

<https://mjl.clarivate.com/home>

- Available from the *Master Journal List*
- An institutional subscription to Web of Science is not necessary, but you need to create a personal Clarivate Account
- Upload the title and abstract of your manuscript
- Search all journals from the WoS Core Collection and compare them to keywords used in your manuscript
- You can filter recommended journals and read details about them

Manuscript Matcher

Manuscript Matcher helps you find the most related journals for your manuscript. It works best when your title has at least 10 words and your abstract has at least 100 words. Using this information, it will pull the most relevant keywords for matching.

Please enter your manuscript information below.

Title

Harnessing the Power of Co-Design in Envisioning New Spaces at the National Library of Technology in Prague

The manuscript title or relevant part(s) of the title. This works best with at least 10 words.

Abstract

The National Library of Technology in Prague (NTK) is a public, specialized library that provides access to the Czech Republic's most robust collection of science and technology literature. Since 2009, the library has operated in a modern building situated aptly in the middle of Prague's technology campus. While NTK is popular among students, the library's user support team has, in recent years, been developing new peer-to-peer services with decision making based on data (Schendel et al., 2013). Extending this idea to the library spaces themselves, the team, in 2018, embarked on a process of understanding how library users utilize NTK spaces, something crucial for the library to maintain its value (Haines, 2019). This case study describes our mixed-methods approach, built upon the Tracking the Traffic (TTT) method designed by Høivik (2008) and implemented in a co-design partnership between library staff (librarians, programmers, and data specialists) and interns representing three countries (the Czech Republic, the United States, and Turkey).

The manuscript abstract or relevant part(s) of the abstract. This works best with at least 100 words.

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- Provide rich filters that includes convenient information such as “Time to publication”
- "Journal details" also involves information about acceptance rates and expected article processing charges (APC, for OA journals)

Paper title

Harnessing the Power of Co-Design in Envisioning New Spaces at the National Library of Technology in Prague

Paper abstract

Don't have an abstract? ▼

The National Library of Technology in Prague (NTK) is a public, specialized library that provides access to the Czech Republic's most robust collection of science and technology literature. Since 2009, the library has operated in a modern building situated aptly in the middle of Prague's technology campus. While NTK is popular among students, the library's user support team has, in recent years, been developing new peer-to-peer services with decision making based on data (Schendel et al., 2013). Extending this idea to the library spaces themselves, the team, in 2018, embarked on a process of understanding how library users utilize NTK spaces, something crucial for the library to maintain its value (Haines, 2019). This case study describes our mixed-methods approach, built upon the Tracking the Traffic (TTT) method designed by Høivik (2008) and implemented in a co-design partnership between library staff (librarians, programmers, and data specialists) and interns representing three countries (the Czech Republic, the United States, and Turkey).

The international interns, acting as project managers and observers, facilitated direct student engagement. Being students (Bachelor and Master levels) themselves allowed them to empathize with our users better during observation and data analysis process how is described below.

Conducted in two phases, the project's first phase was managed by a U.S. intern, a co-author of this paper. Harnessing the power of the TTT method, which relies heavily on observation, this phase included zoning of library floors, creating standardized workflow documents for multiple observers, and conducting pilot studies. Excel was used for data gathering and analysis in this phase, and the project was tailored through collaborative meetings with the entire team. The second phase, led by a Czech intern, focused on improving storage of observation data. The free, open source tool, LimeSurvey, enable efficient data management and multiple format export.

While findings of these two phases are still being compiled, initial results illustrate how useful observation can be in understanding how spaces are used by patrons of various types and how beneficial student engagement (co-design) is. For example, during a 2019 observation, we discovered that almost one-third of all library seats were occupied by visitors' belongings, a finding we did not expect. Student interns engaged in the project immediately pointed out the lack of coat hooks could be one of the reasons for that, which has not been previously considered by staff members. Future phases will be focused on involving students fully as “future space co-designers.”

With this contribution, we will describe the TTT method, our customizations of it, and encourage practitioners to employ the method due to ease and fruitfulness. This case study will also discuss the benefits of student engagement at all levels of project design and implementation.

Maximum 5,000 characters ⓘ

Keywords

Enter relevant keywords for your paper

Field of research

Select field of research ▼

+ Refine your search

Find journals >

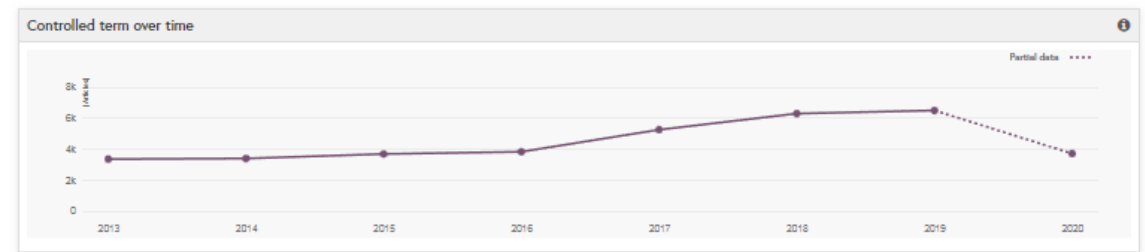
Inspec Analytics

Inspec Analytics is a tool for analyzing the Inspec bibliographic database, which contains more than 15 millions records from the scholarly literature including **physics, electrical engineering, computer science, and mechanical engineering.**

The database is curated by the [Institution of Engineering and Technology \(IET\)](#) and the records are manually controlled and classified by subject experts.

→ Use proper subject terms in Inspec's *Controlled Terms* module to find leading journals, conferences, authors, and institutions.

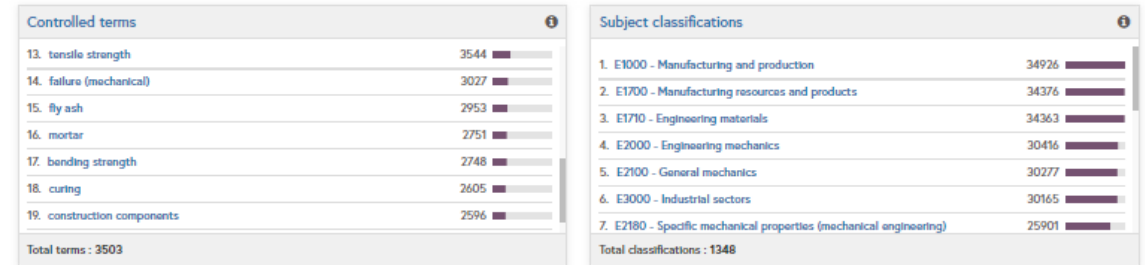
concrete



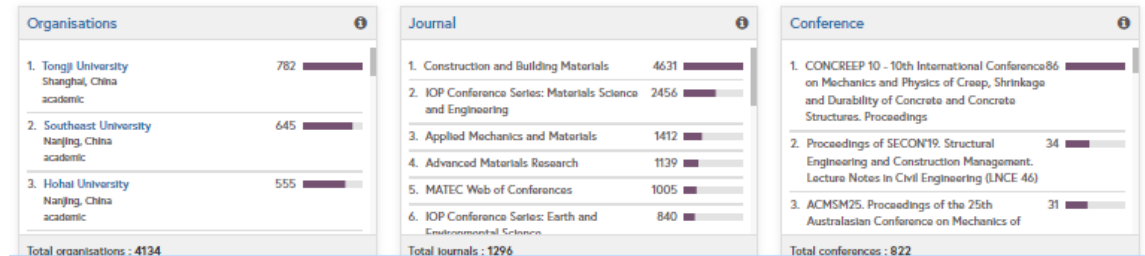
Articles



Co-occurring concepts



Top organisations



Choosing the right journal or conference

- **Read tips about [avoiding predatory and questionable conferences](#)**, review quality & reputation (journal metrics, editorial board, conference organizers)
- Consider relevance of the journal/conference to your field as well as its intended audience
- Review the [peer review process](#) and author services provided
- Investigate discoverability (e.g., can the journal or conference be easily found online)
- [Open Access](#), [Open Data](#) ([Research Data: Sharing and Publishing](#))
- Article processing charges (APCs) and other costs and benefits of submitting an article or attending the conference
- Learn whether or not you can submit the same content to multiple journals or conferences at the same time

Northcentral University Library (2021). *Research Process: Scholarly Publication*.

<https://ncu.libguides.com/researchprocess/scholarlypublication>

Berkeley Library. (n.d.) *Scholarly Publishing*.

<https://www.lib.berkeley.edu/scholarly-communication/publishing>

UNC University Libraries. (2021). *Measure Your Research Impact: Where to Publish*.

<https://guides.lib.unc.edu/measure-impact/publish>

Extra tips for conferences

- Look for conferences specifically intended for doctoral candidates in order to gain experience presenting in English (e.g., [ECRF-ICSA](#), [DOKBAT](#)).
- Search for (international) professional associations within your field ([see this example](#)) and check their events and mailing lists/listservs/social media outlets.
- Read more tips about conference preparation and attendance at: [Navigating your first academic conference](#), Palmer, J. C. (2016).

Getting assistance

24/7: STEMskiller

<https://www.techlib.cz/en/84109-stemskiller>

SKILL SET MAP FOR MENTORS OF EARLY CAREER RESEARCHERS

Definitions, annotations, and links to high-quality open educational resources in English useful in guiding students towards excellence. [\[Read more...\]](#)

Competencies are grouped into four areas, with subsections:

1. [Research and scholarship](#)
2. [Learning, teaching, and supervising](#)
3. [Career management](#)
4. [Engagement, involvement, collaboration, transdisciplinarity, and inquisitiveness](#)

You can also [browse topics A-Z](#)

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- [Provide peer review for annotations](#)
- [Propose high-quality open resources in English](#)

Our team is ready to help you

- Finding and working with scholarly literature
- Learning more about scholarly communications
- Getting full texts of hard-to-access papers
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<https://www.techlib.cz/en/info@techlib.cz>

Bibliometric Services

Bibliometrics can assist you in evaluating published research results, assessing the impact of basic and applied research, or in making decisions about funding (scientometrics).

What we offer

Consultations

- Learn to effectively search citation databases.
- Quickly find your publications and h-index variants.
- Manage your published output with author identifiers (ORCID, ResearcherID, Scopus Author ID).
- Evaluate journal impact factor or other citation metrics.

The service is **free**.

Publication Overview with Citation Counts

We can prepare a customized citation report for you based on information you provide to us such as an author's name or particular research field. For these reports, we primarily use **citation databases and resources** such as Scopus, Web of Science, Journal Citation Reports, Google Scholar.

How to order our services

Arrange a consultation in person, by phone (+420 232 002 535) or email

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Subjects
Bibliometrics and Scientometrics,
Programming Languages

See also

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- Courses, Workshops and Webinars
- Early Career Researcher Support
- Our Specialists
- Tutorials
- Subject Guides

Original Author: Jakub Szarzec

<https://www.techlib.cz/en/83534-bibliometric-services>

Scheduled Consultations

If you wish to meet and discuss your research topic in detail, please fill out the form and we will confirm our appointment within one business day.

We suggest to bring a tablet or laptop to your confirmed appointment.

I would like to discuss. . .

Question •

Preferred time and date •

First and last name •

Email •

Phone •

<https://www.techlib.cz/en/83401-scheduled-consultations>

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Thank you

Questions?