

NTK

50°6'14.083"N, 14°23'26.365"E
Národní technická knihovna
National Library of Technology

Web of Science & Scopus II: Using Citation Databases to Foster Your Research

Alena Chodounská, Vladimír Blažek
November 2021

What is your affiliation?

- A. Czech Technical University in Prague
- B. University of Chemistry and Technology Prague
- C. Czech University of Life Sciences Prague
- D. Charles University
- E. Other

What did we learn last week

Introduction to Web of Science & Scopus (November 16, 2021)

- 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 (*Log in as a guest*)
- [Schedule a consultation](#)

Introduction to Web of Science & Scopus

Lectors: Alena Chodounská and Vladimír Blažek

November 16, 2021

WEBINAR SLIDES

 [Introduction to WoS and Scopus](#)

Slides from webinar (November 16, 2021)

 [\[EXTENDED VERSION\] Introduction to WoS and Scopus](#)

Extended version of 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 - CITATION DATABASES

- [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](#)

Outline

1. Review: citation databases
2. Searching (advanced search, structure search)
3. Results analysis
4. Evaluation of R&D and journal metrics
5. Options for exploring potential target journals and conference
6. Managing author profiles and identifiers
7. Getting assistance

1. Introduction

Which citation database do you use the most often?

- A. Web of Science
- B. Scopus
- C. Google Scholar
- D. Other (+ comment in chat)
- E. None, that's why I'm here

Comparison of Web of Science (WoS) and Scopus

Features	WoS	Scopus
Developer/Producer	Clarivate Analytics	Elsevier
Coverage	1900 to present	1970 to present
Author identifier	Assigned automatically and edited manually via Publons	Auto-generated Scopus Author ID
Alerts service	Yes	Yes
Export citations	Yes	Yes
Citation analysis	Yes	Yes
Main journal metrics	Journal Impact Factor	CiteScore
Author metrics	<i>h</i> -index	<i>h</i> -index

University of Michigan Library (2021). [Comparing Citation Analysis Sources \(UMICH\)](#)

Pranckuté, R. (2021). [Web of Science \(WoS\) and Scopus: The Titans of Bibliographic Information in Today's Academic World](#). *Publications*, 9(1), 12.

Limitations/risks

- Metrics: learning about the different kinds of metrics may be confusing at first
- Delay in indexing (up to 6 months after publication)
- No full texts, but links to full texts (abstracts are available)
- Beware of potential biases
 - Uncritical acceptance of the assumptions, reasoning, conclusions of indexed papers
 - An overly negative attitude (“the paper is no good”) for papers with low numbers of citations or in journals not in WOS or Scopus
- Don't rely only on citation databases. Not enough for a comprehensive literature search; quality research can be found in other places as well

2. Searching

Searching

CASE STUDY #1: I need to find high quality sources for my dissertation about **Human Factors Classification in Air Traffic Control**

11,997 results from Web of Science Core Collection for:

Search: "carbon capture" (Topic) or "carbon utilisation" (Topic)

Buttons: Analyze Results, Citation Report, **Create Alert**

Copy query link

Publications | You may also like...

Refine results

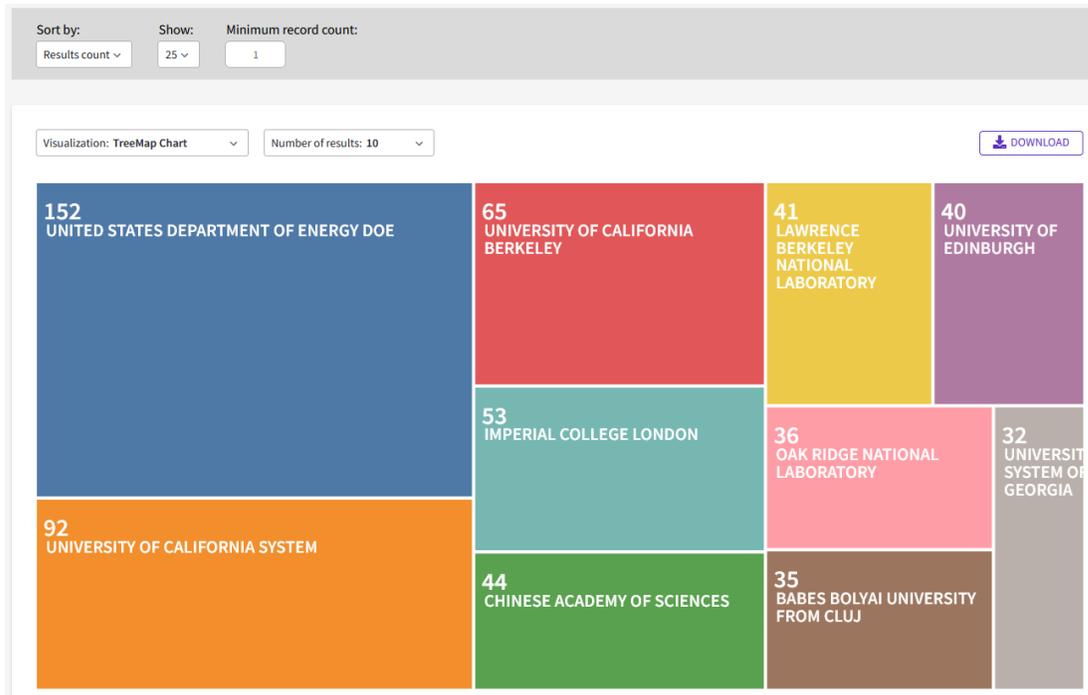
Search within results for...

Quick Filters:

- Highly Cited Papers** 193
- Hot Papers 4
- Review Articles** 829
- Early Access 99
- Open Access 4,580
- Associated Data 95

0/11,997 | Add To Marked List | Export | **Relevance** | 1 of 240

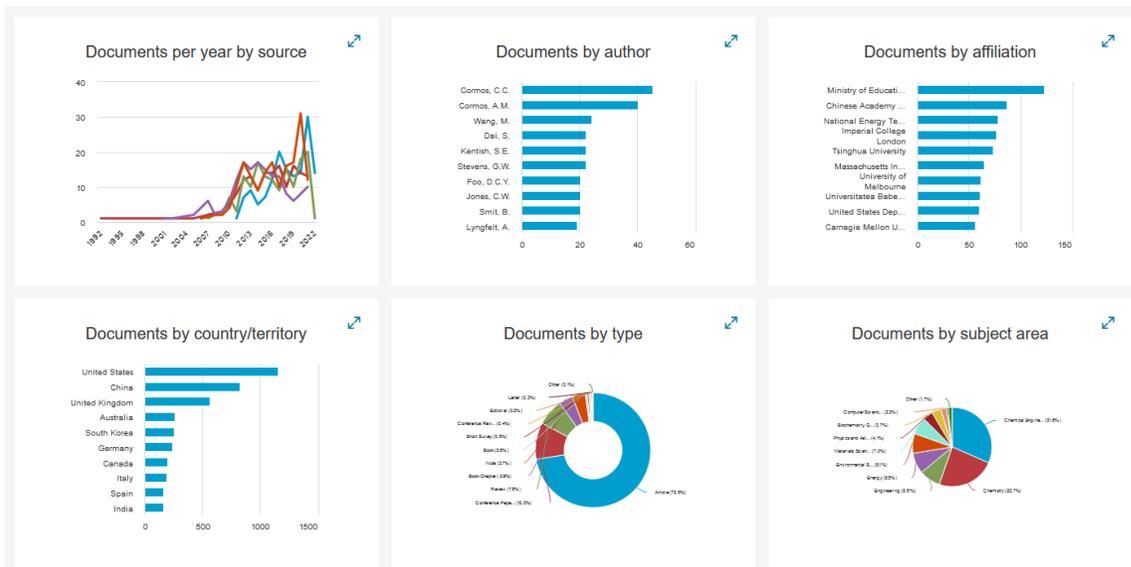
1 **Carbon capture**, utilisation and storage scenarios for the Gulf Cooperation Council region: A Delphi-based foresight study
Al-Saleh, YM; Vidican, G; (...); Theeyattuparampil, VV
Feb 2012 | FUTURES 44 (1), pp.105-115
29 Citations
40 References
Capture, utilisation and storage of carbon dioxide resulting from combusting fossil fuels is gaining attention around the world as a means of addressing climate change. This paper aims to present a set of **carbon capture**, utilisation and storage (CCUS) scenarios for the hydrocarbon-rich Gulf Cooperation Council (GCC) region through to the year 2030, w ... [Show more](#)
[SFX](#) [Full Text at Publisher](#) ***
[Related records](#)



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



Advanced search

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

CASE STUDY #2: 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

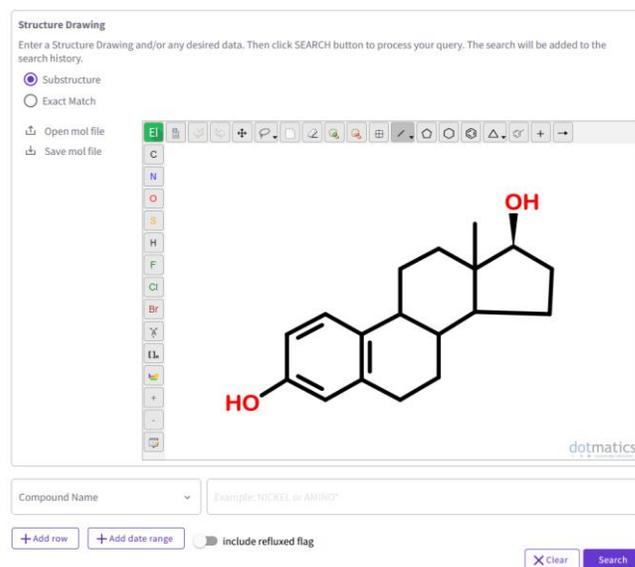
Add Author name / Affiliation

Clear form

Search Q

Chemical structure viewing and searching

- Available on Web of Science
- Search for chemical compounds and reactions
 - Condensed formulas
 - Chemical and/or physical properties for a compound/reaction



Structure Drawing

Enter a Structure Drawing and/or any desired data. Then click SEARCH button to process your query. The search will be added to the search history.

Substructure
 Exact Match

Open mol file
Save mol file

Compound Name:

+ Add row + Add date range include refluxed flag

X Clear Search

Compound Data

Compound Name

Compound Biological Activity

Molecular Weight

Role

Reaction Data

Atmosphere

Reaction Terms

Pressure (Atm)

Time (Hrs)

Temperature (C)

Product Yield

Reaction Keyphrases

Reaction Comments

3. Evaluation of R&D and journal metrics

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		
<ul style="list-style-type: none"> Indexed in WoS 	J _{imp}	
<ul style="list-style-type: none"> Indexed in Scopus 	J _{sc}	
<ul style="list-style-type: none"> 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.*

Journal metrics in Web of Science and Scopus

Web of Science

- Journal Impact factor (JIF)
- Journal Citation Indicator (JCI)

Scopus

- CiteScore
- Source Normalized Impact per Paper (SNIP)

Database of independent metrics

- Eigenfactor

Checking journal metrics

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

CASE STUDY #3: I want a list of all journals that are in the top 10% in the field of economics

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

4. Options for exploring potential target journals and conferences

How to find high-quality journals and conferences

1. **Ask your mentor and/or peers**
2. **Find the best journals** in your respective category
 - The list of journals is openly available at [Scopus Sources](#) and [Web of Science Master Journal List](#) (for access to impact factor, registration is required)
3. **Analyze search results** in citation databases
 - Use categories: *Publication titles/Conference titles* (WoS), *Documents per year by source* (Scopus)
4. **Use Inspec Analytics** (for physics, electrical engineering, computer science)
5. **Try recommender services** such as those from [Elsevier JournalFinder](#), [WoS Manuscript Matcher](#)

Inspec Analytics

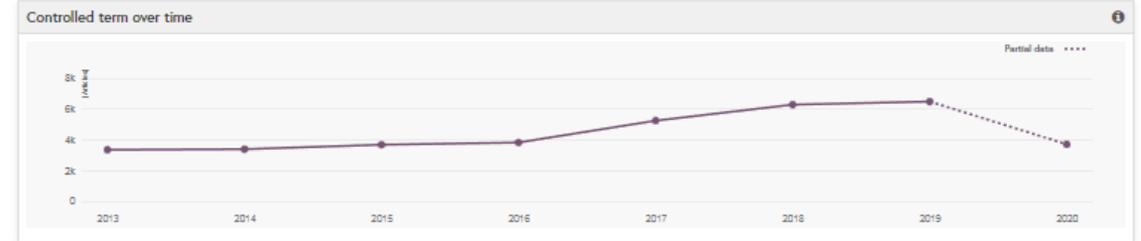
Inspec Analytics is a tool for analyzing bibliographic databases. Inspec contains more than 15 millions records from the scholarly literature including **physics, electrical engineering, computer science, and mechanical engineering.**

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

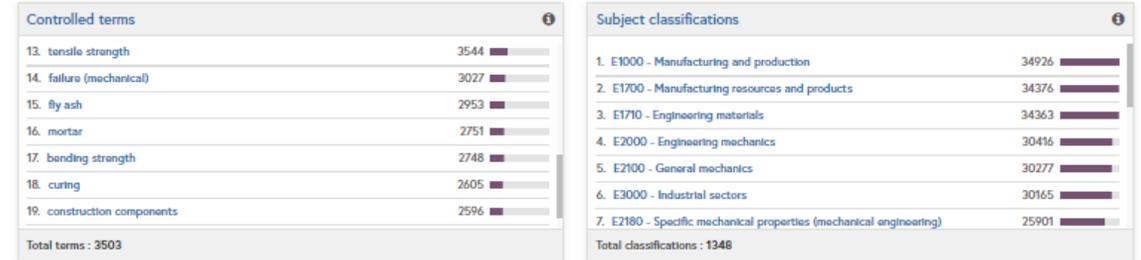
Export



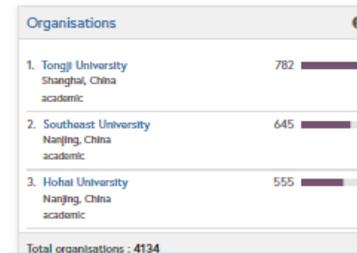
Articles



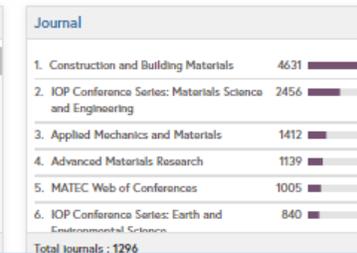
Co-occurring concepts



Top organisations



Journals



Conferences



Web of Science Manuscript Matcher

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

- Available from the “Master Journal” list, “Journal Citation Reports and Endnote”
- 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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- “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 >

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).

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>

5. 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.

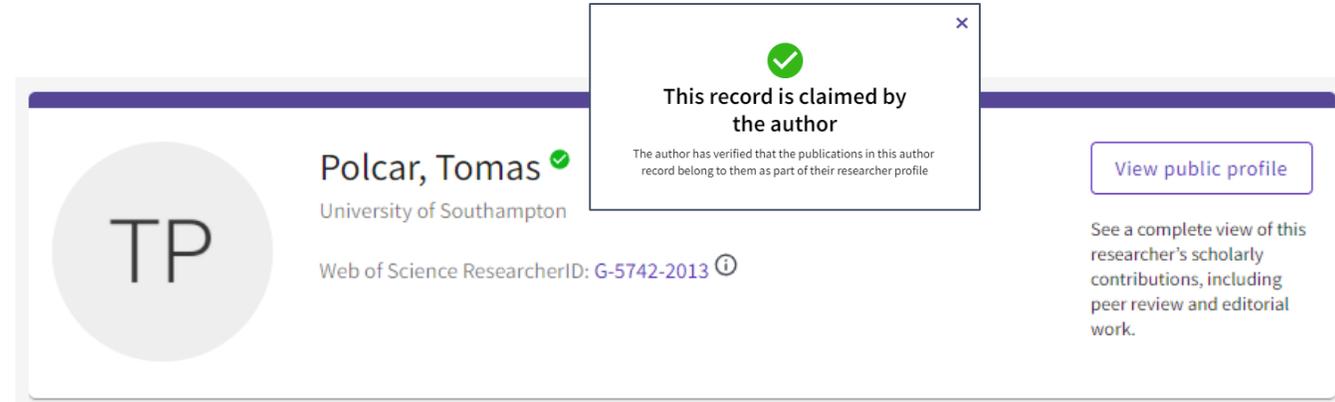
- Names are sometimes complicated; there are different ways to write/transliterate them
- Names are not unique
- People can change their names

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

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

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



The screenshot shows a profile for Tomas Polcar at the University of Southampton. A green checkmark icon indicates the profile is claimed. A pop-up box with a green checkmark and a close button (x) contains the text: "This record is claimed by the author" and "The author has verified that the publications in this author record belong to them as part of their researcher profile". To the right, there is a "View public profile" button and a note: "See a complete view of this researcher's scholarly contributions, including peer review and editorial work." The profile includes a circular logo with the letters "TP" and the Web of Science ResearcherID: G-5742-2013.

Claimed author profile on Web of Science



The screenshot shows an automatic profile for Tomas Polcar. At the top, it says "This author profile is generated by Scopus Learn more". The name "Polcar, Tomas" is prominently displayed. Below the name, it lists the affiliation: "Czech Technical University in Prague, Prague, Czech Republic" with a "Show all author info" link. There is a Scopus ID (55881689000) and a link to "Connect to ORCID". At the bottom, there are several action buttons: "Edit profile", "Set alert", "Potential author matches", and "Export to SciVal".

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 Wizzard](#) (updating author details and adding/removing documents, preprints and grants)
- [Request merging author name variants](#)
- [Connect your Scopus profile to ORCID](#)

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

To use this feature you must be a registered user of Scopus.

[Sign in or create account](#)

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

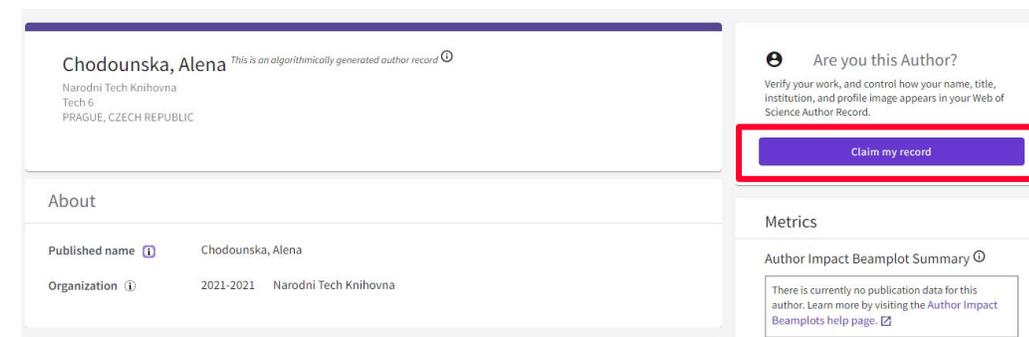
A **ResearcherID** is assigned to your [Publons profile](#) when at least one of your publications is indexed in **WoS** and imported to Publons

→ 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](#)



Chodounska, Alena This is an algorithmically generated author record

Narodni Tech Knihovna
Tech 6
PRAGUE, CZECH REPUBLIC

Are you this Author?
Verify your work, and control how your name, title, institution, and profile image appears in your Web of Science Author Record.

Claim my record

About

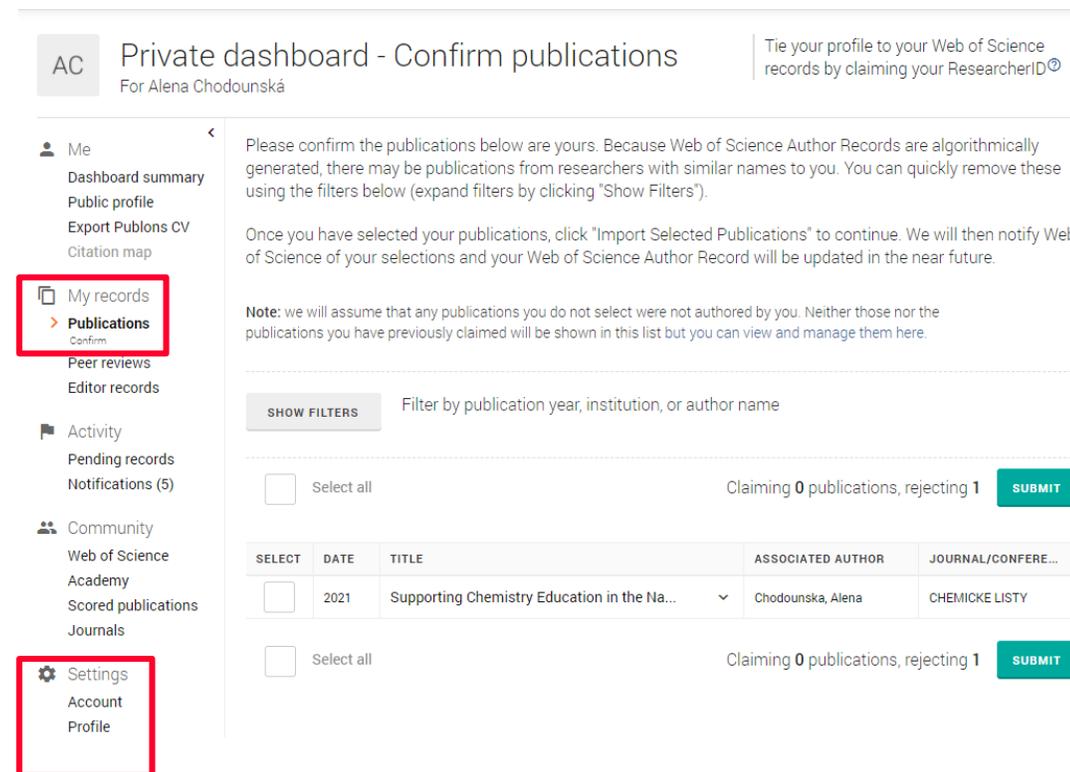
Published name ⓘ Chodounska, Alena

Organization ⓘ 2021-2021 Narodni Tech Knihovna

Metrics

Author Impact Beamplot Summary ⓘ

There is currently no publication data for this author. Learn more by visiting the Author Impact Beamplots help page. ⓘ



AC Private dashboard - Confirm publications Tie your profile to your Web of Science records by claiming your ResearcherID

For Alena Chodounská

Me
Dashboard summary
Public profile
Export Publons CV
Citation map

My records
Publications Confirm

Peer reviews
Editor records

Activity
Pending records
Notifications (5)

Community
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Settings
Account
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Please confirm the publications below are yours. Because Web of Science Author Records are algorithmically generated, there may be publications from researchers with similar names to you. You can quickly remove these using the filters below (expand filters by clicking "Show Filters").

Once you have selected your publications, click "Import Selected Publications" to continue. We will then notify Web of Science of your selections and your Web of Science Author Record will be updated in the near future.

Note: we will assume that any publications you do not select were not authored by you. Neither those nor the publications you have previously claimed will be shown in this list but you can view and manage them here.

SHOW FILTERS Filter by publication year, institution, or author name

Select all Claiming 0 publications, rejecting 1 SUBMIT

SELECT	DATE	TITLE	ASSOCIATED AUTHOR	JOURNAL/CONFERE...
<input type="checkbox"/>	2021	Supporting Chemistry Education in the Na...	Chodounska, Alena	CHEMICKE LISTY

Select all Claiming 0 publications, rejecting 1 SUBMIT

6. 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](#)

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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

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- Manage your published output with author identifiers (ORCID, ResearcherID, Scopus Author ID).
- Evaluate journal impact factor or other citation metrics.

The service is **free**.

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How to order our services

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Editor [Vladimír Blažek](#)

Last modified: 6.4.2020 16:04

Your contact



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☎ 232 002 535

Subjects

Bibliometrics and Scientometrics, Free and Open Source Software, Un*x, Internet Privacy, Data Protection

See also

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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?