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Introduction to Web of Science & Scopus

Eli Blažků, Jan Polášek

Outline

1. [Introduction to citation databases](#)
2. [Searching by topic](#)
3. [Searching for journals and journal metrics](#)
4. [Searching for authors and author metrics](#)
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1. Introduction to citation databases

Evaluating research impact

*“Hopefully, your PhD research will make an **impact** by advancing knowledge in your field or by contributing to real-world applications.”¹*

The results of research are usually presented in form of scientific articles, proceedings, and books.

One of the (limited) ways of measuring the impact of a researcher in their field is the **number of citations** for papers published in **quality, peer-reviewed scientific** journals.

1) PhD On Track. (n.d.). Citation impact. <https://www.phdontrack.net/share-and-publish/citation-impact/>

Scientific communication & quality control

- Submitted papers are evaluated via a **rigorous [peer review process](#)** in quality scientific journals.
- Citation databases include resources (usually journals) in them according to selection criteria ([Scopus criteria](#), [Web of Science criteria](#)).
- Citation information is then analyzed within citation databases and **citation metrics** for journals, articles, and authors are calculated.
- **Web of Science** and **Scopus** citation databases are currently used in the Czech academic performance evaluation system.

Citation metrics are important if you choose a career in academia, and they are also used to evaluate scientific institutions around the world.

How can citation databases help you?

- In searching for reliable, peer-reviewed resources (better chances of avoiding low-quality/[predatory journals](#))
- In checking journal metrics to make better decisions about where to publish (to build your academic reputation and get RIV points)
- In looking up author metrics (*h*-index counts) for proposals or one's own CV
- In identifying new trends and seminal articles in your field

Web of Science (WoS) and Scopus

- **Peer-reviewed scholarly literature:**

- Journals, books, and conference proceedings

- **Content policy and selection criteria:**

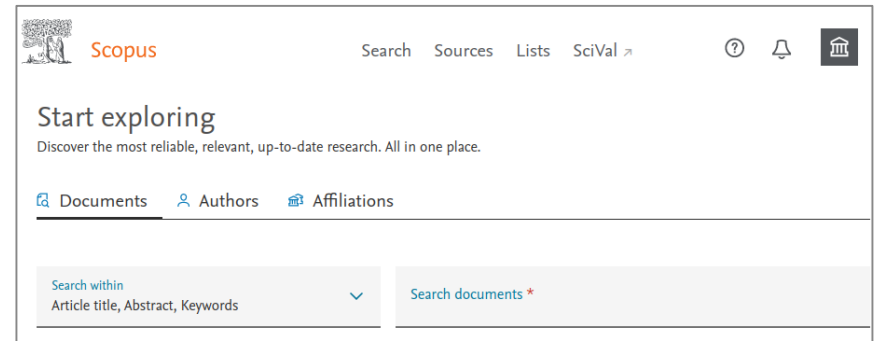
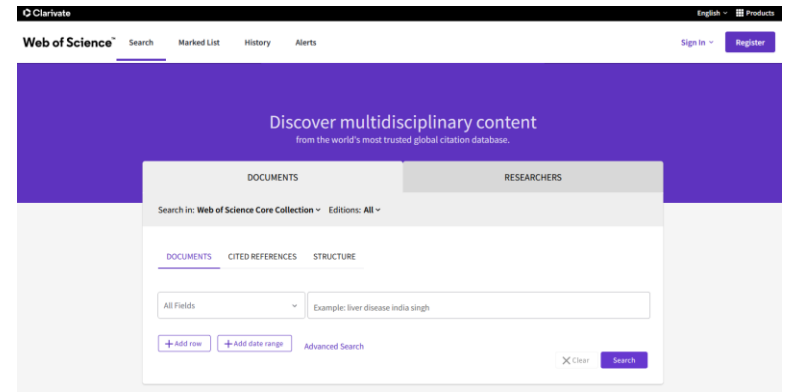
- **Evaluation of included literature** by standards, subject/content relevance, and impact

- **Citation information:**

- Others who cite a work (times cited)
- Views (usage count) and analysis

- Other citation metrics

- **No full texts, but links to full texts and abstracts**



Comparison of Web of Science (WoS) and Scopus

Features	WoS	Scopus
Developer/Producer	Clarivate Analytics	Elsevier
Coverage	1900 to present	1970 to present (with references)
Author identifier	Assigned automatically or created manually in Researcher Profile	Auto-generated Scopus Author ID
Alerts service	Yes	Yes
Export citations	Yes	Yes
Citation analysis	Yes	Yes
Main journal metrics	Journal Impact Factor	⁸ CiteScore
Author metrics	<i>h</i> -index	<i>h</i> -index

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

Pranckutė, 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 not 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

Access to WoS & Scopus

- Subscribed to via NTK and university libraries
- You have direct access within your university network (in your office or classrooms)
- For **off-campus access**, check with your library:
 - [NTK](#), [CTU](#), [UCT & IOCB](#), [Charles Univ.](#), [CZU](#)
- The list of journals (including citation metrics) is open to all
 - [Scopus sources](#)
 - [Web of Science Master Journal List](#) (for access to impact factor information, registration is required)

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1 / 5

News

Extended Opening Hours on Sundays
12.5 - You can study throughout the library on Sunday until 10:00 pm again. We have expanded study space during the exam period. Check out the [Sunday Opening Hours during exams](#).

Atriums on 6th floor open
17.4 - Would you like to study outside while not leaving the library? Try outdoor atriums on 6th floor.

Walk-in Consultations
4.3 - Visit us for on-site assistance at the Knowledge Navigation Corner (Floor 2) or use the regular, subject- and language-specific, consultation times.

Selected eResources

- Cambridge Journals
- EBSCOhost
- Emerald Premier
- Encyclopaedia Britannica
- IEEE Xplore
- IOScience
- Nature Complete
- Oxford English Dictionary
- Oxford Journals
- ProQuest Central
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CZECH TECHNICAL UNIVERSITY IN PRAGUE
CENTRAL LIBRARY

15 May 2019 is a Rector's day. Due to the shutdown of Oracle and the entire CTU IS, the services of the central CTU library

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Information resources catalogue

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Citations index

Citation indexes

Citation databases are databases that track quoted responses to published review texts. In the Czech Republic, two of the most significant citation databases, SCOPUS and Web of Science, are used for IS VaVaI review. Specifically, for reviewing articles published in journals and conference proceedings (Web of Science is part of Citation Reports and SCOPUS).

WEB OF SCIENCE | JCR | SCOPUS | INCITES

Web of Science

Direct access Remote access (Shibboleth)

The Web of Science (WoS) is a bibliographic and citation database used for VaVaI evaluation in the Czech Republic. Together with JCR it evaluates the **Impact Factor (IF)** of journals.

WoS Components:

- Science Citation Index Expanded (SCI-Expanded)
- Social Science Citation Index (SSCI)
- Arts & Humanities Citation Index (AHCI)
- Conference Proceedings Citation Index (CPCI)
 - Science
 - Arts & Humanities

Journals in WoS¹²

Conferences in WoSConferences in WoS¹²

[CTU Central Library](#)

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Scopus Springer Taylor & Francis **Web of Science** Wiley

[Charles University Resources](#)

2. Searching by topic in citation databases

Finding scholarly literature

CASE STUDY #1: I need to find high quality sources for my dissertation about technologies for **carbon capture and utilization**

Search in: **Web of Science Core Collection** Editions: All

DOCUMENTS AUTHORS CITED REFERENCES STRUCTURE

Topic "carbon capture storage" X

Search

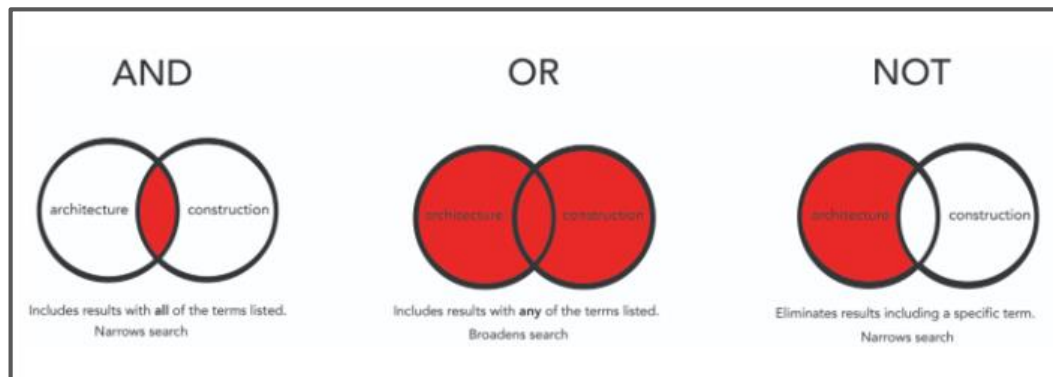
All Fields
Topic
Title
Author
Publication Titles
Year Published

Topic
Searches title, abstract, author keywords, and Keywords Plus.
Example:
robot*
control*
"input shaping"

X Clear Search

Database searching tips

Topic	▼	Example: oil spill* mediterranean "carbon capture storage"	×	
⊖ Or ▼	Topic	▼	Example: oil spill* mediterranean "carbon capture utili?ation"	×



<i>industr*</i>	<i>sul*ur</i>
<i>industry</i>	<i>sulfur</i>
<i>industrial</i>	<i>sulphur</i>
<i>industrialism</i>	
<i>industrialization</i>	

Managing results - Web of Science

The screenshot displays the Web of Science search results page for the query "carbon capture storage" (Topic) OR "carbon capture utilization" (Topic). The interface is annotated with red boxes and arrows highlighting key features:

- Search Results Summary:** A box at the top left indicates "599 results from Web of Science Core Collection for:" followed by the search query and buttons for "Analyze Results", "Citation Report", and "Create Alert".
- Refine Results Panel (Left):** A sidebar on the left contains a search box for "Search within results for...", "Quick Filters" (Highly Cited Papers, Review Articles, Early Access, Open Access, Associated Data), and a list of filters including "Publication Years", "Document Types", "Web of Science Categories", "Authors", "Affiliations", "Publication Titles", "Publishers", "Funding Agencies", and "Open Access".
- Sort Options (Top Right):** A dropdown menu is set to "Sort by: Citations: highest first".
- Refine Results Panel (Right):** A sidebar on the right contains a search box for "Search within results for...", "Quick Filters" (Highly Cited Papers, Review Articles, Early Access, Open Access, Associated Data), and a list of filters including "Publication Years", "Document Types", "Web of Science Categories", "Authors", "Affiliations", "Publication Titles", "Publishers", "Funding Agencies", "Open Access", "Editorial Notices", "Editors", "Group Authors", "Research Areas", "Countries/Regions", "Languages", "Conference Titles", "Book Series Titles", and "Web of Science Index".
- Sort Options (Bottom Right):** A second dropdown menu is also set to "Sort by: Citations: highest first".
- Publication List:** The main area shows a list of results. The first result is "Carbon capture, storage and utilisation technologies: A critical analysis and comparison of their life cycle environmental impacts" by Cuellar-Franca, RM and Azapagic, A. The second result is "Surfa Yasiled" by Yasiled, Yasiled. The third result is "The effects of electricity consumption, economic growth, financial development and foreign direct investment on CO2 emissions in Kuwait" by Salahuddin, M; Alam, K; and Sahar, K. The fourth result is "A systematic review on CO2 capture with ionic liquids: Current status and future prospects" by Aghaie, M; Bozaaj, N; and Zendejboudi, S. Each result includes a citation count, reference count, and a "Free Full Text From Publisher" button.

Managing results - Scopus

270 document results

(TITLE-ABS-KEY ("carbon capture storage") OR TITLE-ABS-KEY ("carbon capture utilization"))

Edit Save Set alert

Search within results...



Refine results

Limit to Exclude

Open Access

Year

Author name

Subject area

Document type

Publication stage

Source title

Keyword

Affiliation

Funding sponsor

Country/territory

Documents Secondary documents Patents

View Mendeley Data (13)

Analyze search results

Show all abstracts

Show all abstracts

Sort on: Cited by (highest)

All

Export

Download

View citation overview

View cited by

Add to List

Print

Email

Share

Document title

Authors

Year

Source

Cited by

1

Carbon capture, storage and environmental impacts

Open Access

Mar-Franca, R.M., Azapagic, A.

2015

Journal of CO2 Utilization 9, pp. 82-102

746

View abstract

SFX

View at Publisher

Related documents

2

Surface and Interface Engineering in Copper-Based Bimetallic Materials for Selective CO2 Electroreduction

Vasileff, A., Xu, C., Jiao, Y., Zheng, Y., Qiao, S.-Z.

2018

Chem 4(8), pp. 1809-1831

307

View abstract

SFX

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Related documents

3

Electrocatalytic reduction of CO2 to formate using particulate Sn electrodes: Effect of metal loading and particle size

Del Castillo, A., Alvarez-Guerra, M., Solla-Gullón, J., Montiel, V., Irabien, A.

2015

Applied Energy 157, pp. 165-173

95

View abstract

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2021

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2020

(28)

2019



(25)

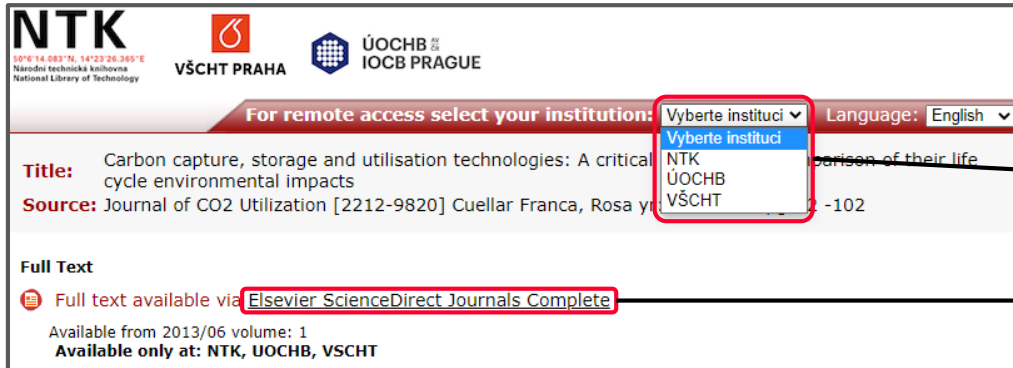
2018

(20)

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Web of Science	Scopus
SFX  <ul style="list-style-type: none">• Redirect link to resources subscribed to by your library.• You can be asked to choose your institution with NTK access (NTK, UCT Prague, or IOCB). See the picture below.	SFX  <ul style="list-style-type: none">• Redirect link to resources subscribed to by your library.• You can be asked to choose your institution with NTK access (NTK, UCT Prague, IOCB). See the picture.
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Title: Carbon capture, storage and utilisation technologies: A critical comparison of their life cycle environmental impacts

Source: Journal of CO2 Utilization [2212-9820] Cuellar Franca, Rosa y... -102

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Article details (WoS)

Carbon capture, storage and utilisation technologies: A critical analysis and comparison of their life cycle environmental impacts

By: Cuellar-Franca, RM; Cuellar-Franca, Rosa M¹; Azapagic, A; [View full text from Publisher](#)

JOURNAL OF CO2 UTILIZATION
Volume: 9 Page: 82-102
DOI: 10.1016/j.jcu.2014.12.001
Published: March 2015
Indexed: 2015-03-01
Document Type: Review

Abstract
This paper presents a first comprehensive comparison of environmental impacts of carbon capture and storage (CCS) and carbon capture and utilisation (CCU) technologies. Life cycle assessment studies found in the literature have been reviewed for these purposes. In total, 27 studies have been found of which 11 focus on CCS and 16 on CCU. The CCS studies suggest that the global warming potential (GWP) from power plants can be reduced by 63-82%, with the greatest reductions achieved by oxy-fuel combustion in pulverised coal and integrated gasification combined cycle (IGCC) plants and the lowest by precombustion capture in combined cycle gas turbine (CCGT) plants. However, other environmental impacts such as acidification and human toxicity are higher with than without CCS. For CCU, the GWP varies widely depending on the utilisation option. Mineral carbonation can reduce the GWP by 4-48% compared to no CCS. Storing CO₂ for production of chemicals, specifically dimethyl ether (DME), reduces the GWP by 4-9 times and some layer depletion by 13 times compared to the conventional DME process. Enhanced oil recovery has the GWP 23 times lower compared to discharging CO₂ to the atmosphere for acidification, three times higher. Capturing CO₂ by methanol to produce bio-methanol, 2.3 times higher GWP than fossil diesel with other environmental impacts also significantly higher. On average, the GWP of CCS is significantly lower than of the CCU options, however, other environmental impacts are higher compared to CCS except for DME production which is the worst CCU option overall. © 2014 The Authors. Published by Elsevier Ltd.

Keywords
Author Keywords: Carbon capture and storage; Carbon capture and utilisation; Life cycle assessment; Climate change; Environmental impacts
Keywords Plus: FULL-SCALE PLANTS; CO₂ CAPTURE; DIOXIDE CAPTURE; BIOETHANOL PRODUCTION; SWING ADSORPTION; TRANSPORT; GAS RECOVERY; ENERGY COST

Author information
Corresponding address: Azapagic, A; [View full text from Publisher](#)
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Address:
* Univ. Manchester, Sch. Chem. Engrg. & Analyt. Sci., Room 3.61, Sackville St., Manchester M13 9PL, Lancs., England
E-mail Address: azapagic@manchester.ac.uk
Categories/Classification
Research Area: Chemistry; Engineering
Funding

Citation Network
In Web of Science Core Collection
672 Citations
Create citation alert
680 Times Cited in All Databases
72 Cited References
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CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY

Correa, CC; Cornejo, AM; Aguilari, G

1 **Carbon capture, storage and utilisation technologies: A critical analysis and comparison of their life cycle environmental impacts**

[Cuellar-Franca, RM](#) and [Azapagic, A](#)
Mar 2015 | [JOURNAL OF CO2 UTILIZATION](#) 9, pp.82-102

672 Citations
72 References

This paper presents a first comprehensive comparison of environmental impacts of carbon capture and storage (CCS) and carbon capture and utilisation (CCU) technologies. Life cycle assessment studies found in the literature have been reviewed for these purposes. In total, 27 studies have been found of which 11 focus on CCS and 16 on CCU. The CCS studies suggest that the global warming potential ... [Show more](#)


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Carbon capture, storage and utilisation technologies: A critical analysis and comparison of their life cycle environmental impacts

Cuéllar-Franca, Rosa M.; Azapagic, Adisa

[Save all to author list](#)

* School of Chemical Engineering and Analytical Science, University of Manchester, The Mill, Sackville Street, Manchester, M13 9PL, United Kingdom

746 99th percentile Citations in Scopus

12,15 FWCI

590 Views count

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Author keywords

Reaxys Chemistry database Information

Abstract

This paper presents a first comprehensive comparison of environmental impacts of carbon capture and storage (CCS) and carbon capture and utilisation (CCU) technologies. Life cycle assessment studies found in the literature have been reviewed for these purposes. In total, 27 studies have been found of which 11 focus on CCS and 16 on CCU. The CCS studies suggest that

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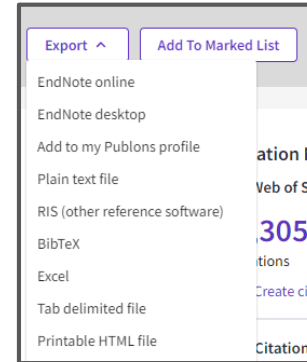
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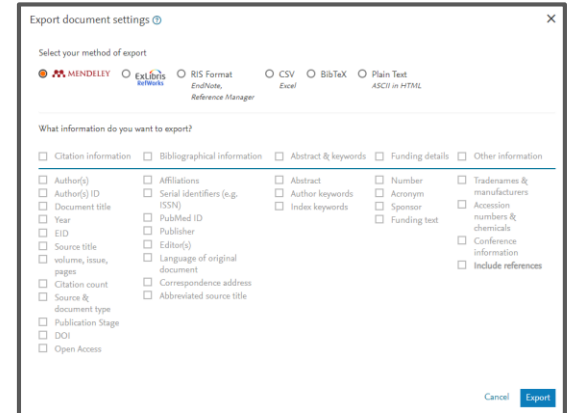
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Personal accounts

Creating personal accounts enables you to:

- **Save** your search history and lists of documents
- **Create alerts** for each search

Setting search alerts: Scopus



17,537 document results

TITLE-ABS-KEY ("air traffic control")

[Edit](#) [Save](#) [Set alert](#)

Search terms
TITLE-ABS-KEY ("air traffic control") [Edit](#)

* Required fields

Name of alert *
"air traffic control"

Email address(es) *

E.g., j.smith@mail.com, p.smith@mail.com
Separate multiple email addresses by a semicolon, comma, space or enter.

Frequency
Every week on Monday

Status
 Active Inactive

[Set alert](#)

Setting search alerts: WoS

4,091 results from Web of Science Core Collection for:

Q "air traffic control" (Topic)

Analyze Results Citation Report **Create Alert**

∞ Copy query link

- You can create alerts for any search

Create search alert

Alert Name

Air traffic control|

Send me email alerts

CREATE

3. Searching for journals

What are journal metrics?

- Measurements of quality/impact of a journal
- They assist in quantifying the importance of a journal

Journal metrics

Web of Science Journal Citation Reports:

- [Journal Impact Factor](#)

Scopus sources:

- [CiteScore](#)

Impact factor (WoS)

“The impact factor is a measure of the frequency with which the ‘average article’ in a journal has been cited in a particular year or period.”

*“The impact factor of a journal is calculated by dividing the number of current year citations to the source items published in that journal during the **previous two years**.”¹*

$$\text{IF}_{2017} = \frac{\text{Citations}_{2016} + \text{Citations}_{2015}}{\text{Publications}_{2016} + \text{Publications}_{2015}} = \frac{32389 + 41701}{880 + 902} = 41.577$$

Image source: https://en.wikipedia.org/wiki/Impact_factor

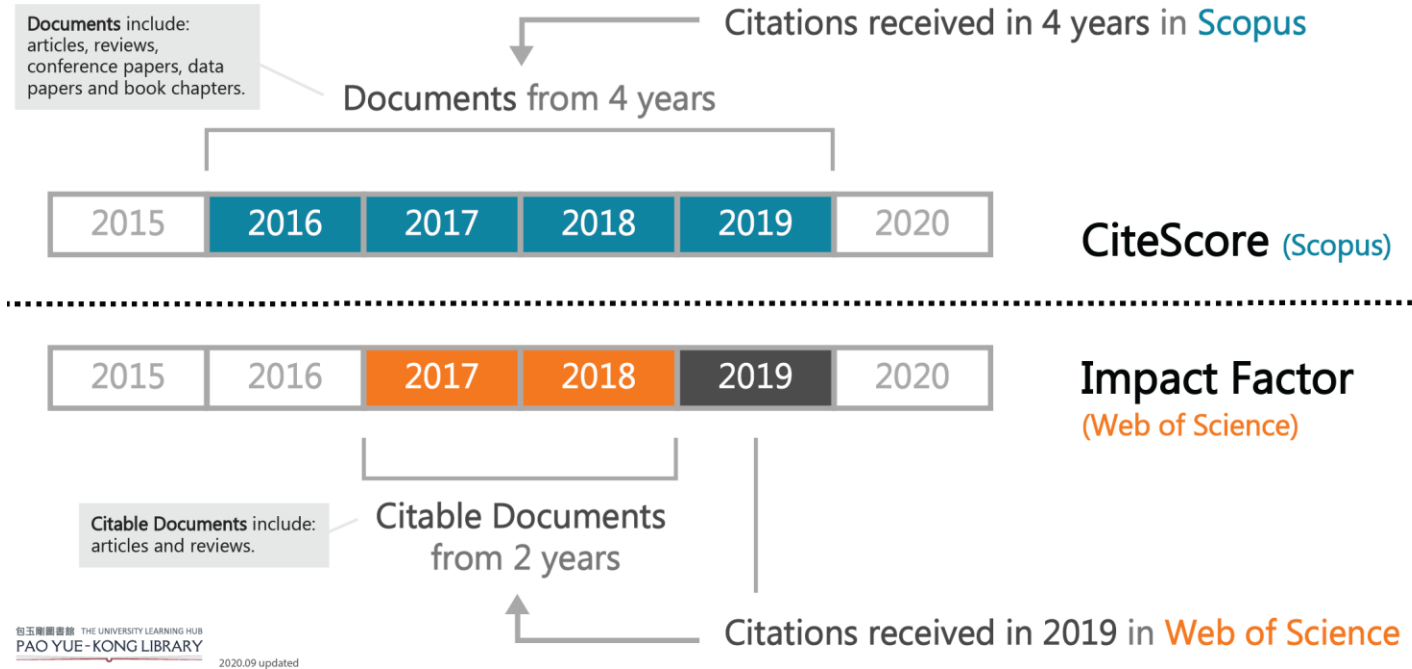
CiteScore (Scopus)

CiteScore 2020 methodology

CiteScore 2020 counts the citations received in 2017-2020 to articles, reviews, conference papers, book chapters and data papers published in 2017-2020, and divides this by the number of publications published in 2017-2020.



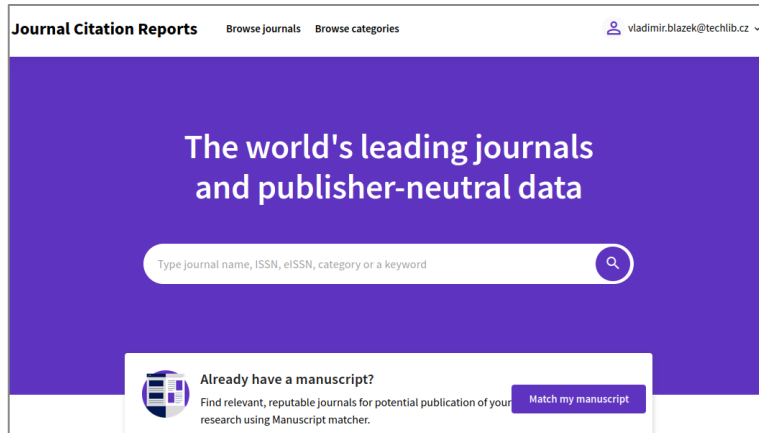
CiteScore (Scopus) vs. Impact factor (WoS)



Checking impact factor/CiteScore

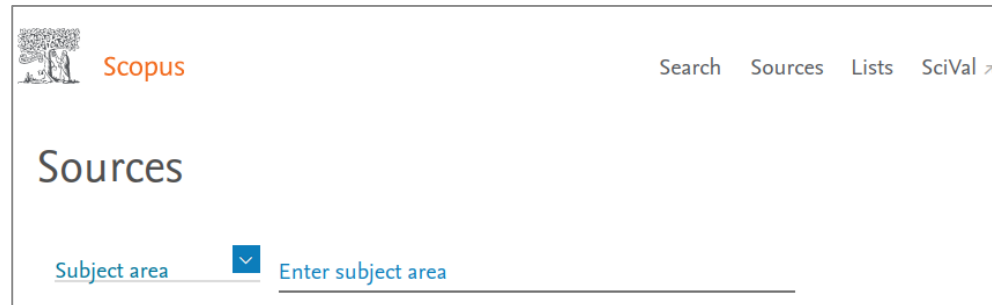
CASE STUDY #2: I need to check the quality and reliability of the *Journal of Modern Power Systems and Clean Energy*

- **Journal Citation Reports** for WoS impact factor



The screenshot shows the homepage of Journal Citation Reports. The header includes the site name, navigation links for 'Browse journals' and 'Browse categories', and a user profile for 'vladimir.blazek@techlib.cz'. The main content area has a purple background with the text 'The world's leading journals and publisher-neutral data'. Below this is a search bar with the placeholder text 'Type journal name, ISSN, eISSN, category or a keyword'. At the bottom, there is a section titled 'Already have a manuscript?' with a subtext 'Find relevant, reputable journals for potential publication of your research using Manuscript matcher.' and a 'Match my manuscript' button.

- **Sources** for Scopus CiteScore

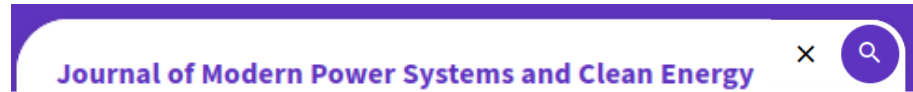


The screenshot shows the 'Sources' page on the Scopus website. The header features the Scopus logo, navigation links for 'Search', 'Sources', 'Lists', and 'SciVal', and a user profile. The main heading is 'Sources'. Below the heading is a dropdown menu labeled 'Subject area' with a blue arrow icon and a text input field containing 'Enter subject area'.

Checking impact factor/CiteScore

Journal of Modern Power Systems and Clean Energy

Web of Science™



Search results > Journal profile

JCR YEAR

2020

Journal of Modern Power Systems and Clean Energy

Open Access since 2013

ISSN

2196-5625

E-ISSN

2196-5420

JCR ABBREVIATION

J MOD POWER SYST CLE

ISO ABBREVIATION

J. Mod. Power Syst. Clean Energy

Journal's performance

Journal Impact Factor

2020 JOURNAL IMPACT FACTOR

3.265

[View calculation](#)

JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

2.720

[View calculation](#)

Scopus

Source details

Journal of Modern Power Systems and Clean Energy

Open Access ⓘ

Scopus coverage years: from 2013 to Present

Publisher: IEEE

ISSN: 2196-5625 E-ISSN: 2196-5420

Subject area: [Energy: Energy Engineering and Power Technology](#) [Energy: Renewable Energy, Sustainability and the Environment](#)

Source type: Journal

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CiteScore

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[Scopus content coverage](#)

CiteScore 2020

7.8

$= \frac{3\,675 \text{ Citations 2017 - 2020}}{477 \text{ Documents 2017 - 2020}}$

Calculated on 05 May, 2021

CiteScoreTracker 2021 ⓘ

7.6

$= \frac{3\,607 \text{ Citations to date}}{473 \text{ Documents to date}}$

Last updated on 05 October, 2021 • Updated monthly

CASE STUDY #3: I need to check the quality and reliability of the *International Journal of Energy Engineering*

International journal of energy	
JOURNAL NAME	ISSN/eISSN
INTERNATIONAL JOURNAL OF ENERGY RESEARCH	0363-907X / 1099-114X
International Journal of Energy Sector Management	1750-6220 / 1750-6239
International Journal of Energy Optimization and Engineering	2160-9500 / 2160-9543
International Journal of Energy and Environmental Engineering	2008-9163 / 2251-6832
See all 4 results >	



INTERNATIONAL JOURNAL OF ENERGY RESEARCH

ISSN
0363-907X

2020 JOURNAL IMPACT FACTOR

5.164

[View calculation](#)

EISSN
1099-114X

JCR ABBREVIATION
INT J ENERG RES

ISO ABBREVIATION
Int. J. Energy Res.

International Journal of Energy Sector Management

ISSN
1750-6220

Emerging journal

EISSN
1750-6239

JCR ABBREVIATION
INT J ENERGY SECT MA

ISO ABBREVIATION
Int. J. Energy Sect. Manag.

International Journal of Energy Optimization and Engineering

ISSN
2160-9500

Emerging journal

EISSN
2160-9543

JCR ABBREVIATION
INT J ENERGY OPTIM E

ISO ABBREVIATION
Int. J. Energy Optim. Eng.

International Journal of Energy and Environmental Engineering

ISSN
2008-9163

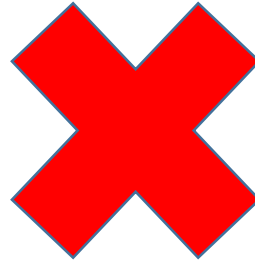
Emerging journal

EISSN
2251-6832

JCR ABBREVIATION
INT J ENERGY ENVIR E

ISO ABBREVIATION
Int. J. Energy Environ. Eng.

CASE STUDY #3: I need to check the quality and reliability of the *International Journal of Energy Engineering*



**INTERNATIONAL
JOURNAL OF ENERGY
RESEARCH**

ISSN
0363-907X

EISSN
1099-114X

JCR ABBREVIATION
INT J ENERG RES

ISO ABBREVIATION
Int. J. Energy Res.

**International Journal
of Energy Sector
Management**

ISSN
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JCR ABBREVIATION
INT J ENERGY SECT MA

ISO ABBREVIATION
Int. J. Energy Sect. Manag.

**International Journal
of Energy
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Engineering**

ISSN
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EISSN
2160-9543

JCR ABBREVIATION
INT J ENERGY OPTIM E

ISO ABBREVIATION
Int. J. Energy Optim. Eng.

**International Journal
of Energy and
Environmental
Engineering**

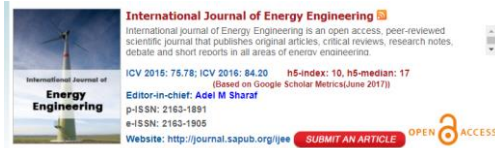
ISSN
2008-9163

EISSN
2251-6832

JCR ABBREVIATION
INT J ENERGY ENVIR E

ISO ABBREVIATION
Int. J. Energy Environ. Eng.

International Journal of Energy Engineering



Link:

<http://www.sapub.org/journal/aimsandscope.aspx?journalid=1005>

Publisher: Scientific & Academic Publishing (SAP)

ISSN: 2163-1905

WoS JCR: NO

Scopus Sources: NO

Beall's archive: YES

International Journal of Energy Research



Link:

<https://onlinelibrary.wiley.com/journal/1099114x>

Publisher: John Wiley & Sons Ltd.

ISSN: 1099-114X

WoS JCR: YES (2017-IF 3.009)

Scopus Sources: YES (2017-CS 2.72)

Beall's archive: NO

Tracking a specific journal

- Be careful: one word or one letter can make a great difference
- [Ulrichsweb](#): check journal details and ISSNs
- [Beall's archive](#) of potential predatory publishers and journals
 - Beware! The original list has not been updated since 2016
 - There are successors to Jeffrey Beall, but they prefer to remain anonymous

4. Searching for authors & *h*-index counts

Why use author identifiers?

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

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

Author identifiers

Features	<u>ResearcherID</u>	<u>Scopus Author Identifier</u>	<u>ORCID</u> (Open Researcher & Contributor ID)
How to get author identifier?	Author identifier will be created automatically with your first publication in WoS or created manually in Researcher Profile.	Author identifier will be generated automatically if you have at least one publication in Scopus. You can edit author profiles (Edit profile tool) or use Author Feedback Wizard or Support. Merging profiles is possible on the results page.	Create your profile at orcid.org . You can join all your author IDs in ORCID.
How to link your publication with your ID?	Edit your author profile in Researcher Profile in your account at Web of Science.	Imported automatically from Scopus, add manually in Edit profile.	You can import from many platforms (WoS, Scopus, arXiv) or add manually.
Supporting platforms	Web of Science	Scopus	Open non-profit initiative

- Link all papers published under different variants of your name
- Distinguish papers written by other authors with the same name
- Create your author profiles

h-index

“The h-index is based on a list of publications ranked in descending order by the Times Cited. The value of h is equal to the number of papers (N) in the list that have N or more citations. (...)

A researcher (or a set of papers) has an h-index of N if he/she has published N papers that have N or more citations each. The h-index is based on Times Cited data from the database. It will not include citations from non-indexed resources.”¹

Paper	Number of citations
Paper 1	101
Paper 2	86
Paper 3	77
Paper 4	56
Paper 5	16
Paper 6	12
Paper 7	8
Paper 8	4
Paper 9	4
Paper 10	1

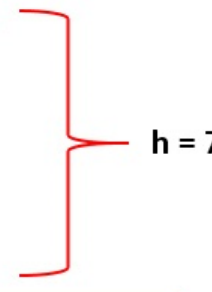


Image source: <https://toptipbio.com/h-index-how-to-calculate-yours/>

1) Clarivate Analytics (2019, February 5), *Web of Science: h-index information*. Available at: https://support.clarivate.com/ScientificandAcademicResearch/s/article/Web-of-Science-h-index-information?language=en_US

***h*-index: potential traps**

- The source or records for analysis:
 - Web of Science **vs.** Scopus **vs.** Google Scholar
- The number and accuracy of records in a dataset:
 - Basic search **vs.** ORCID search **vs.** author profile
- Exclude self-citations of selected author **vs.** exclude self-citations of all co-authors

Tracking an author in WoS

PROF. ING. TOMÁŠ POLCAR, PH.D.



Full Professors

E-mail:

polcatom@fel.cvut.cz

Phone:

+420224357598

Room:

Praha, Jugoslávských partyzánů , B-162
Praha, Resslova 9, E-s134

Oddělení:

[Advanced Materials Group](#)

ORCID:

<http://orcid.org/0000-0002-0863-6287>

CASE STUDY #4:
I want to find papers by
Prof. Tomáš Polcar
(and check his *h*-index)

<https://usermap.cvut.cz/profile/795f78c3-fa72-446c-a953-4c02c7de9283>

Author search: WoS

DOCUMENTS | CITED REFERENCES | STRUCTURE

Author

203 results

Including all articles authored by people with the name "Polcar T", regardless of field

DOCUMENTS | RESEARCHERS

Search for an author to see their author record. An author record is a set of Web of Science Core Collection documents likely authored by the same person. You can claim and verify your author record from your author record page.


Name Search

Last Name

First Name and Middle Initial(s)

[+ Add name variant](#)

[X Clear](#) [Search](#)

1 **Polcar, Tomas**  2005-2022
Years

University of Southampton
Engn & Phys Sci
SOUTHAMPTON, HANTS, ENGLAND
Web of Science ResearcherID: G-5742-2013
Published names: Polcar, T. Polcar, T
Top Journals: Surface & Coatings Technology, Applied Surface Science, Tribology International
[Recent publications](#)

2 **Polcar, Tomas** 2003-2022
Years

University of Southampton
Engn & Phys Sci
SOUTHAMPTON, HANTS, ENGLAND
Published names: Polcar, T. Polcar, T
Top Journals: Lecture Notes in Computer Science, Surface & Coatings Technology, Implementation and Application of Automata
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DOCUMENTS | RESEARCHERS

Search for an author to see their author record. An author record is a set of Web of Science Core Collection documents likely authored by the same person. You can claim and verify your author record from your author record page.

Author Identifiers

[X Clear](#) [Search](#)


192 records

Including all articles connected to Prof. Polcar via his ResearcherID

192 records

Author profile based on analysis of records (name, field, affiliation, and so on)

Author search: WoS



Polcar, Tomas ✓
University of Southampton

Web of Science ResearcherID: G-5742-2013 ⓘ

[View public profile](#)

See a complete view of this researcher's scholarly contributions, including peer review and editorial work.

Verify your Author Record

Get your own verified author record. Enter your name in Author Search, then click "Claim My Record" on your author record page.

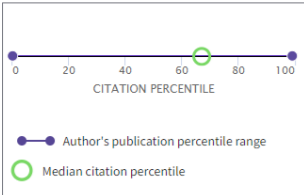
[Go to author search](#)

Metrics

[Dashboard](#)

33 H-Index	192 Publications in Web of Science
3,575 Sum of Times Cited	2,371 Citing Articles
0 Verified Peer Reviews	0 Verified Editor Records


Author Impact Beamplot Summary ⓘ



The beamplot shows the author's publication percentile range (indicated by a blue line with dots at 0 and 100) and the median citation percentile (indicated by a green circle at approximately 65).

Published names ⓘ Polcar, T. Polcar, Tomas Polcar, T

Organizations ⓘ 2013-2022 University of Southampton
2005-2022 Czech Technical University Prague
2007-2011 Universidade de Coimbra

Other Identifiers ⓘ  <https://orcid.org/0000-0002-0863-6287>

PUBLICATIONS PEER REVIEW

192 Publications from the Web of Science Core Collection [View citation report](#)

Include publications not indexed in Core Collection (2) ⓘ Date: Newest first < 1 of 4 >

[A new protocol for the identification of singlet fission sensitizers through computational screening](#)
Lopez-Carballeira, Diego and Polcar, Tomas
Published Dec 2021 | Journal of Computational Chemistry

0 Times Cited

Author search: Scopus

Documents **Authors** Affiliations Search tips

Search using: Author name

Enter last name *
polcar

Enter first name
tomas

+ Add affiliation

Search

Author	Documents	h-index	Affiliation	City	Country/Territory
<input type="checkbox"/> 1 Polcar, Tomas Polcar, Tomáš Polcar, Tomas Polcar, Tomáš View last title	203	35	Czech Technical University in Prague	Prague	Czech Republic
<input type="checkbox"/> 2 Polcar, Tomáš View last title	2	2	Ceské vysoké učené technické v Praze	Prague	Czech Republic

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

Polcar, Tomas

[Czech Technical University in Prague, Prague, Czech Republic](#) [Show all author info](#)
[55881689000](#) [Connect to ORCID](#)

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Metrics overview

203
Documents by author

3949
Citations by 2595 documents

35
h-index: [View h-graph](#)

Document & citation trends

Analyze author output [Citation overview](#)

Most contributed Topics 2016–2020

- [Grain Boundaries; Radiation Injuries; Copper](#)
10 documents
- [Solid Lubricants; Tribometers; Friction](#)
7 documents
- [Mechanical Properties; Hard Coatings; Physical Vapor Deposition](#)
6 documents

[View all Topics](#)

Google Scholar metrics



Milan Jirásek

[Czech Technical University in Prague](#)
Verified email at fsv.cvut.cz - [Homepage](#)

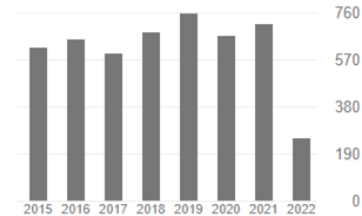
[Fracture](#) [Failure](#) [Plasticity](#) [Damage](#) [Creep](#)

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TITLE	CITED BY	YEAR
Nonlocal integral formulations of plasticity and damage: survey of progress ZP Bažant, M Jirásek Journal of engineering mechanics 128 (11), 1119-1149	1362	2002
Inelastic Analysis of Structures M Jirasek, ZP Bazant Wiley	1029	2002
Comparative study on finite elements with embedded discontinuities M Jirásek Computer methods in applied mechanics and engineering 188 (1-3), 307-330	582	2000
Damage-plastic model for concrete failure P Grassl, M Jirásek International journal of solids and structures 43 (22-23), 7166-7196	571	2006
Nonlocal models for damage and fracture: comparison of approaches M Jirasek International Journal of Solids and Structures 35 (31-32), 4133-4145	469	1998
Comparison of integral-type nonlocal plasticity models for strain-softening materials M Jirásek, S Rolshoven International journal of engineering science 41 (13-14), 1553-1602	278	2003
Meso-scale approach to modelling the fracture process zone of concrete subjected to uniaxial tension P Grassl, M Jirásek International Journal of Solids and Structures 47 (7-8), 957-968	249	2010

Cited by	VIEW ALL	
	All	Since 2017
Citations	9694	3673
h-index	44	29
i10-index	82	56



Public access	45	VIEW ALL
2 articles		5 articles
not available		available

Based on funding mandates

Co-authors

5. Summary


What you learned today:

- What citation databases are and how you can use them to support my research activities
- How you can identify seminal and/or review articles in my field quickly and easily
- How you can get PDFs and stay organized while working with citation databases
- Evaluating what journals are important in my field
- How you can find various journal metrics (e.g. Impact factor and CiteScore)
- What an h-index is, how you can find mine/that of others, and what an h-index is used for

Summary of advantages

- **Contain high-quality, peer-reviewed articles**
- You can use the number of citations to identify seminal articles
- Searching for authors and evaluating them
- Searching for journals and their metrics
- Creating alerts to track new trends

Keep in mind

- **Access to full texts** can be problematic 
- To make your research more comprehensive, also **use other search tools** (e.g., Google Scholar, an academic library discovery system)
- **Delay** in indexing sometimes (up to 6 months after publication for some journals)

6. Getting assistance

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](#)

Contribute to our effort:

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

Our team is ready to help you

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- Learning more about scholarly communications
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- Informal peer discussion about academic careers and life as a doctoral student, with other doctoral students

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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](#)

Original Author: Jakub Szarzewski

Your contact



Eli Blažuk
✉ [eli.blazuk](mailto:eli.blazuk@techlib.cz)
☎ 232 002 562

Subjects
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[Programming Languages](#)

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<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 -

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Thank you

Questions?