Introduction to Web of Science & Scopus





Introduction to Web of Science & Scopus

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Which institution are you from?

A. Czech Technical University in Prague
B. University of Chemistry and Technology Prague
C. Czech University of Life Sciences Prague
D. Charles University
³
E. Other

Which citation database do you use the most often, if any?

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



- 1. Introduction to citation databases
- 2. <u>Searching by topic</u>
- 3. <u>Searching for journals and journal metrics</u>
- 4. <u>Searching for authors and author metrics</u>
- 5. <u>Summary</u>
- 6. <u>Getting assistance</u>

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, peerreviewed scientific** journals.

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

Scientific communication & quality control

- Submitted papers are evaluated via a **rigorous** <u>peer review process</u> in quality scientific journals.
- Citation databases include resources (usually journals) in them according to selection criteria (<u>Scopus criteria</u>, <u>Web of Science criteria</u>).
- 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:

- O Journals, books, and conference proceedings
- Content policy and selection criteria:
 - **Evaluation of included literature** by standards, subject/content relevance, and impact

• Citation information:

- O Others who cite a work (times cited)
- O Views (usage count) and analysis
- Other citation metrics

• No full texts, but links to full texts and abstracts





How do you use citation databases? (if you use them)

A. Searching for peer-reviewed resources B. Checking journal metrics (impact factor, citation scores)

- C. Getting author metrics (*h*-index counts)
- D.Other (+ comment in chat)
- E. I don't, that's why I'm here



Features	WoS	Scopus
Developer/Producer	Clarivate Analytics	Elsevier
Coverage	1900 to present	1970 to present
Author identifier	Assigned automatically and edited manually via <u>Publons</u>	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

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
 - <u>Scopus sources</u>
 - <u>Web of Science Master Journal List</u> (for access to impact factor information, registration is required)

Access via:



National Library of Technology



Arts & Humanities Journals in WoS ^{G*}

Conferences in WoSConferences in WoS ^I



Charles Universit	y
<u>Resources</u>	

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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 ~

Title

Author

Publication Titles

Year Published

DOCUMENTS AUTHORS CITED REFERENCES STRUCTURE "carbon capture storage" <u>Topic</u> \sim Topic Searches title, abstract,

author keywords, and Keywords Plus. X Clear Example: robot* control* "input shaping"

 \times

×

Search

Database searching tips





Managing results

189 results from Web of S	Science Core (Collecti	on for	
Q "carbon capture storage" (Top)	ic) or " carbon capt	ure utilisa	IONW (IOpic) Analyze Results Citation Report	treate Alert
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Publications You m	ay also like			
Refine results				
		0/1	89 Add To Marked List Export ~ Citations: highest fit : ~ <	of 4 >
Search within results for	٩			
Quick Filters		□ 1 •	Carbon capture, storage and utilisation technologies: A critical analysis and comparison of their life cycle environmental impacts	618 Citations
Thighly Cited Papers	2	•	Cuellar-Franca, RM and Azapagic, A	72
Review Articles	25	ô	Mar 2015 JOURNAL OF CO2 UTILIZATION 9 , pp.82-102	References
S Early Access	1		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	
Dpen Access	64		these purposes. In total .27 studies have been found of which 11 focus on CCS and 16 on CCU. The CCS Show more	
Second Associated Data	2		SFX Free Full Text From Publisher ***	Related records
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Publication Years	~	□ 2 •	Surface and Interface Engineering in Copper-Based Bimetallic Materials for Selective CO2 Electroreduction	255 Citations
2022	1		Vasileff, A: Xu, CC; (); Qiao, SZ	100
2021	29	ô	Aug 9 2018 <u>CHEM</u> 4 (8), pp.1809-1831	References
2020	21		The electrochemical CO2 reduction reaction (CO2RR) can couple carbon-capture storage with renewable energy to convert CO2 into chemical feedstocks. For this process, copper is the only metal known to catalyze the CO2RR to hydrocarbons with	
2019	23		adequate efficiency, but it suffers from poor selectivity. Copper bimetallic materials have recently shc Show more	
2018	17		ØSFX Free Full Text From Publisher ***	Related records
See all				
Document Types	~	□ 3	Electrocatalytic reduction of CO2 to formate using particulate Sn electrodes: Effect of metal loading and particle size	81 Citations
Articles	112		Del Castillo, A; Alvarez-Guerra, M; (); Irabien, A	
Proceedings Papers	46		Nov 1 2015 APPLIED ENERGY 157, pp.165-173	78 References
Review Articles	25		The development of electrochemical processes for the conversion of CO2 into value-added products allows innovative carbon	
Editorial Materials	9		capture & utilization (CCU) instead of carbon capture & storage (CCS). In addition, coupling this conversion with renewable energy sources would make it possible to chemically store electricity from these intermittent renewal, <u>Show more</u>	
Book Chapters	3		SFX Full Text at Publisher ***	Related records
See all				
Web of Science Categories	~	4	CO2 stability of Portland cement based well cementing systems for use on carbon capture &	61
Energy Fuels	77		storage (CCS) wells	Citations
Engineering Chemical	54		Lesti, <u>M: Tiemeyer, C</u> and <u>Plank, J</u> Mar 2013 <u>CEMENT AND CONCRETE RESEARCH</u> 45, pp.45-54	28
Environmental Sciences	41		Three Portland cement based systems formulated with specific inorganic particles and organic admixtures were tested against	References
Engineering Environmental	31		conventional API Class G oil well cement with respect to CO2 tolerance. Hardened speciments (30 x 50 mm) were prepared and	

798 document results

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

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Open Access	~		Document title	Authors	Year	Source	Cited by
All Open Access	(214) >		Carbon capture, storage and utilisation technologies; A	Cuéllar-Franca, R.M., Azapagic,	2015	Journal of CO2	677
Gold	(120) >	1	critical analysis and comparison of their life cycle	A.	2010	Utilization 9. pp. 82-102	
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Bronze	(45) >		View abstract - OSFX View at Publisher Rela	ated documents			
Green	(79) >			inco documenta			
Learn more		2	The effects of electricity consumption, economic growth,	Salahuddin, M., Alam, K., Ozturk, I., Sohag, K.	2018	Renewable and Sustainable Energy	268
Year	^		financial development and foreign direct investment on CO ₂ emissions in Kuwait Open Access	Ozturk, I., Sonag, K.		Reviews 81, pp. 2002-2010	
2022	(4) >		View abstract v OSEX View at Publisher Rela	ted desuments			
2021	(148) >		View abstract > Ost-x View at Publisher Reta	neu documents			
2020	(118) >		Surface and Interface Engineering in Copper-Based	Vasileff, A., Xu, C., Jiao, Y.,	2018	Chem	259
2019	(93) >		Bimetallic Materials for Selective CO ₂ Electroreduction Open Access	Zheng, Y., Qiao, SZ.		4(8), pp. 1809-1831	
2018	(72) >						
View more			View abstract View at Publisher Rela	ated documents			
Author name	^	4	CO2 capture by accelerated carbonation of alkaline	Pan, SY., Chang, E.E., Chiang, P-C	2012	Aerosol and Air Quality Research	222
Cormos, C.C.	(15) >		wastes: A review on its principles and applications Open Access	H-U.		12(5), pp. 770-791	
Cormos, A.M.	(12) >		View abstract View at Publisher Rela	ited documents			
Leonzio, G.	(9) >						
Li, Q.	(9) >	5	Assessing the feasibility of CO2 storage in the New	Liu, F., Ellett, K., Xiao, Y., Rupp,	2013		171
Zhao, D.	(9) >		Albany Shale (Devonian-Mississippian) with potential enhanced gas recovery using reservoir simulation	J.A.		Greenhouse Gas Control	
View more						17, pp. 111-126	
Subject area	^		View abstract v OSFX View at Publisher Rela	ated documents			
Energy	(362) >		A systematic review on CO2 capture with ionic liquids:	Aghaie, M., Rezaei, N.,	2018		166
Environmental Science	(294) >		Current status and future prospects	Zendehboudi, S.		Sustainable Energy Reviews	
Engineering	(250) >					96, pp. 502-525	

Web of Science

Getting full text

Web of Science	Scopus
 S-F-X 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. 	 S-F-X 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.
 Free Full Text From Publisher Direct "publisher link" to open access resources. (Search the article title in Google Scholar if the link is broken) 	 View at Publisher Direct "publisher link" to the article published in both open access and subscription
 Full Text at Publisher Direct "publisher link" to the article. It will work just for articles subscribed to by your library. (Use library document delivery services if the link is broken) 	resources. Search for the title of the article in Google Scholar or contact your library for assistance.



Article details (WoS)



Article details (Scopus)

	Document title		Authors	Year	Source	Cited by
1		storage and utilisation technologies: is and comparison of their life cycle mpacts	Cuéllar-Franca, R.M., Azapagic, A.	2015	Journal of CO2 Utilization 9, pp. 82-102	677
	View abstract ~	6sFx View at Publishe	Related documents			
-2 Export Document Review • F Source typ Journal ISSN 22129820 DOI	t ype Hybrid Gold Open Access e	tt ⊠E-mail Save to PDF ☆Add to List More Journal of CO22 Utilization • Open Across • Volume 9, Page Carbon capture, storage - technologies: A critical a of their life cycle environ Cuellar.Eranca.R.M. ArapagicA. S Save all to author list School of Chemical Engineering and Analytical Science Manchester, M13 9PL, United Kingdom 678 590 Citations in Scopus 590 Views court (*)	and utilisation nalysis and comparison imental impacts	Opti on a cycle Gare (202 Nan orgg An A Wan (202 Hyb unko Li, S (202 View View	dd by 678 documents mitation of low carbon fuels operation (C engine under simplified driving for transportation de-fossilization (a, A, Monasilve-Serano, J, Villata, D. 2) Fuel Socale geochemical heterogeneity of nic matter in thermally-mature shalas: FM-IR study 2) Fuel di CO2-102 huff-n-puff strategy in doing tight oil reservoirs (a) Fuel di CO2-102 huff-n-puff strategy in doing tight oil reservoirs (a) Fuel all 678 citing documents m me when this document is cited in us: citation alet)	
Reaxys C informa	keywords Chemistry database tion keywords opics	Abstract This paper presents a first comprehensive compa- capture and storage (CCS) and carbon capture an assessment studies found in the literature have to studies have been found of which 11 focus on CC the global warming potential (CWP) from power greatest reductions achieved by owy-fue combus capatification combined cycle (IGCC) plants and th combined cycle gas turbine (CCCT) plants. Howe acidification and human toxicity are higher with widely depending on the utilisation option. Mine commared to no CCL Utilisition CO-for production	d utilisation (CCU) technologies. Life cycle een reviewed for these purposes. In total, 27 sand 16 on CCU. The CCS studies suggest that plants can be reduced by 63-82%, with the tion in pulverised coal and integrated lowest by post-combustion capture in ever, other environmental impacts such as than without CCS. For CCU, the GWP varies ral carbonation can reduce the GWP by 4-48%.	Fror upg mar Gerr and Hor (201 Life com com Fade (201	sted documents 1 Paris agreement to business cases for add bioget. Analysis of potential act uptals for biomethane plants in many using biogenic carbon capture utilization technologies (b) Biomass and Bioenergy 9) Biomass and Bioenergy 9) Biomass and Bioenergy 1006 assessment of natural gas bined opies Integrated with CO2 pot bustion capture using chemical solvent by S., Arafit, H.A., Abu-Zahra, N.R.M. 3) International Journal of Greenhouse Control	

Integration with reference management tools

Web of Science

- Supports direct download of citations (and PDFs) to EndNote
- You can also save citations via the browser extension for your favorite reference management tools (e.g., <u>Zotero</u> or <u>Mendeley</u>) or you can export selected citations to an RIS file (that can be opened by other reference management tools)

SCOPUS

- Supports direct download of citations (and PDFs) to <u>Mendeley</u> and <u>RefWork</u>
- You can also save citations via the browser extension for your favorite reference management tools (e.g., <u>Zotero</u> or <u>EndNote</u>) or you can export citations to an RIS file (that can be opened by other reference management tools)





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



Set alert

Setting search alerts: WoS



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's Journal Citation Reports:

Journal Impact Factor

Scopus sources:



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

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

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

1) Garfield E. (1994, June 20), The Impact Factor. Originally published in the Current Contents, Available also at: https://clarivate.com/webofsciencegroup/essays/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. WoS impact factor



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 Report for WoS impact factor • **Source** for Scopus CiteScore

Journal Citation Reports Browse journals Browse categories 2 Vladimir.blazek@techlib.	Scopus Searc	ch Sources Lists SciVal א
The world's leading journals and publisher-neutral data	Sources	
Type Journal name, ISSN, eISSN, category or a keyword	Subject area Enter subject area	
Already have a manuscript? Find relevant, reputable journals for potential publication of your Match my manuscript research using Manuscript matcher.		33

Checking impact factor/CiteScore

Journal of Modern Power Systems and Clean Energy

Web of Science[®]



View calculation

View calculation

Scopus

Source details

Journal of Modern Power Systems and Clean Energy Open Access (i) 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 View all documents Save to source list Set document alert CiteScore rank & trend Scopus content coverage CiteScore CiteScoreTracker 2021 CiteScore 2020 Citations 2017 - 2020 3 607 Citations to date 7.6 473 Documents to date Last updated on 05 October, 2021 • Updated monthly Calculated on 05 May, 202

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
i.	See all 4 results >	

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International Journal
INTERNATIONAL
JOURNAL OF ENERGY
                   of Energy Sector
                    Management
RESEARCH
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0363-907X	2020 JOURNAL IMPACT FACTOR	1750-6220
EISSN 1099-114X	5.164	EISSN 1750-6239
JCR ABBREVIATION	View calculation	JCR ABBREVIATIO
ISO ABBREVIATION		ISO ABBREVIATIO

Int. J. Energy Res.

Int. J. Energy Sect. Manag.



International Journal of Energy **Optimization and** Engineering

Emerging 2160-9500 journal 2160-9543

INT J ENERGY OPTIM E

Int. J. Energy Optim. Eng.

International Journal of Energy and Environmental Engineering

> Emerging journal

INT J ENERGY ENVIR E

2008-9163

2251-6832

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 INTERNATIONAL JOURNAL OF E RESEARCH 0363-907X

1099-114X

INT J ENERG RES

Int. J. Energy Res.

	international Jour	
NERGY	of Energy Sector	
	Management	
	ISSN	
	1750-6220	
	EISSN	
	1750-6239	
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Int. J. Energy Sect. Manag.

International Journal of Energy Optimization and Engineering 2160-9500

2160-9543

INT J ENERGY OPTIM E

Int. J. Energy Optim. Eng.

of Energy and	
Environmental	
Engineering	
2008-9163	
E155H 2251-6832	
JCR ABBREVIATION	
ISO ABBREVIATION	26

International Journal

Int. J. Energy Environ. Eng.
International Journal of Energy Engineering



Link:

http://www.sapub.org/journal/aimsandscop

e.aspx?journalid=1005

Publisher: Scientific & Academic Publishing

(SAP)

ISSN: 2163-1905 WoS |CR: NO **Scopus** Sources:

Beall's archive:

NO YES

International Journal of Energy Research

NTERNATIONAL JOURNAL OF ENERGY RESEARCH



Edited By: Editor-In-Chief: Ibrahim Dincer Impact factor: 3.009 ISI Journal Citation Reports @ Ranking: 2017: 41/97 (Energy & Fuels) ISI Journal Citation Reports © Ranking: 2017: 1/33 (Nuclear Science & Technology) Online ISSN: 1099-114X © John Wiley & Sons Ltd

Link: https://onlinelibrary.wiley.com/journal/1099 114x

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
- <u>Ulrichsweb</u>: check journal details and ISSNs
- <u>Beall's archive</u> 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	ResearcherID (<u>Publons</u>)	<u>Scopus Author</u> <u>Identifier</u>	ORCID (Open Researcher & Contributor ID)	 Link all papers published under 		
How to get author identifier?	Author identifier will be created automatically with your first publication in WoS. You can then claim the profile with Publons and manage it similarly to ORCID.	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.	 different variants of your name Distinguish papers written by other authors with the same 		
How to link your publication with your ID?	Manage via Publons: You can import your citations from Web of Science, ORCID, via DOI or add them manually.	Imported automatically from Scopus, add manually in Edit profile.	You can impo l' t from many platforms (WoS, Scopus, arXiv) or add manually.	name • Create your author		
Supporting platforms	Web of Science	Scopus	Open non-profit initiative	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 hindex of N if he/she has published N papers that have N or more citations each. The hindex 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 h =				
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/

Clarivate Analytics (2019, February 5), Web of Science: h-index information. Available at: of-Science-h-index-information?language=en US

https://support.clarivate.com/ScientificandAcademicResearch/s/article/Web-12

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

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Oddělení: Advanced Materials Group

ORCID:

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

https://usermap.cvut.cz/profile/577dec31-a2d6-4eda-a02e-c9b1c370447b?lang=en

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

Author search: WoS

DOCUMENTS AUTHORS CITED REFERENCES STRUCTURE Author ~ Polcar T		u lts g all articles authored by people v olcar T", regardless of field	with the	
DOCUMENTS AUTHORS CITED REFERENCES STRUCTURE Search for an author to see their author record. An author record is a set of Web of Science Core Collection do same person. You can claim and verify your author record from your author record page.	Case Fee E Prod Web Put Put Put Put Put Put Put Put Put Put	ar, Tomas Technical University Progue list Engin See Engin & Phys Sci U.Y., CZCYR (RPTUUR), C.Y., CAR of Science Researcher(1): G-S742-2013 thefd anners, Polaca, T. Polaca, T cumula: Surface & Costings Technology, Applied Surface Science, Tribology International tt publications ~	146 Documents 2005-2019 Wars	146 records Author profile based on analysis of records
Name Search ~ Last Name First Name and Middle Initial(s) POLCAR T	University of the second secon	ar, Tomas Inity of Southampton Ir Adv ThoUpLac Elect Engn Margeron, NMTS, ROLAND Inhed name: Polar, T. Polar, T Iournali: Suface & Cataings Technology, Applied Surface Science, Acta Materialia It publications ~	48 Decuments 2003-2021 Years	(name, field, affiliation, and so on)
DOCUMENTS AUTHORS CITED REFERENCES STRUCTURE	Fac E PRAG Publi Top J	ar, T. . Technical University Prague let Engn UF, CZECH REPUBLIC bef annes: ournals: Materials & Design nt publications v	1 Documents 2021-2021 Vears	
Search for an author to see their author record. An author record is a set of Web of Science Core Collection docum same person. You can claim and verify your author record from your author record page. Author Identifiers Veb of Science ResearcherID or ORCID G-5742-2013	Inclu to Pr	r ecords ding all articles connected of. Polcar via his archerID		

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.
About		🗩 Dashboard
Published names Polcar, T. Polcar, Tomas Polcar, T Organizations 2013-2019 University of Southampton 2005-2019 Czech Technical University Prague 2007-2011 Universidade de Coimbra		Metrics Author Impact Beamplot Summary [©]
Other Identifiers Other Identifiers Inters://orcid.org/0000-0002-0863-6287		0 20 40 60 00 100 CITATION PERCENTILE
PUBLICATIONS PEER REVIEW		Author's publication percentile range Median citation percentile
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TITLE		CITED BY	YEAR	Citations h-index	9257 43	3934 31
ZP Bažant, M Jirásek	ormulations of plasticity and damage: survey of progress	1327	2002	i10-index	80	740
Inelastic Analysis M Jirasek, ZP Bazant Wiley		1004	2002	ath		555
M Jirásek	y on finite elements with embedded discontinuities applied mechanics and engineering 188 (1-3), 307-330	565	2000			185
P Grassl, M Jirásek	odel for concrete failure	538	2006	2014 2015 2016 20	17 2018 2019	
Nonlocal models f M Jirasek	or damage and fracture: comparison of approaches f Solids and Structures 35 (31-32), 4133-4145	451	1998	Public access		48 VIEW ALL 4 articles
M Jirásek, S Rolshove	egral-type nonlocal plasticity models for strain-softening materials n i engineering science 41 (13-14), 1553-1602	270	2003	not available Based on funding	mandates	available
Meso-scale appro tension	ach to modelling the fracture process zone of concrete subjected to uniaxial	239	2010			

5. Summary

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

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Thank you

Questions?