

Good Day! We'll start soon!





Elevating University Visibility: Harnessing the Power of Elsevier RI Solutions (Scopus, SciVal, etc.)



28 November 2023

Bartłomiej Wieckowski, Galina Yakshonak, Kirill Ivanov
Research Intelligence Customer Consultants



Q&A

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Welcome 🍌

Feel free to ask the host and panelists questions

Type your question here...



Zoom Group Chat

To: All panelists and attendees

Type message here ...



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Actuality of elevating University visibility

The rapid growth of the international higher education system has put colleges and universities under pressure

An ever-rising number of institutions are chasing a limited pool of talent and funding

In this competitive environment, raising the profile of an institution is crucial



Among key areas

Research impact

e.g. Publications in high-quality journals

Research outreach

e.g. research on top-prominent topics

Academia impact

e.g. via University rankings

Publications in high-quality journals



Why high-quality journals?

High-quality journals are a strategic imperative



Reputation and Prestige

Global Visibility

Impact and Influence

Funding Opportunities

Recruitment and Retention

Collaboration and Partnerships

Knowledge Transfer

The acceleration from the perspective of the institution (I)

the implementation phase

Encourage faculty to engage in cutting-edge research aligned with journal themes.

Establish support mechanisms such as grants and workshops to facilitate faculty publication efforts.

Promote collaboration between research centers and industry partners for impactful projects.

The acceleration from the perspective of the institution (II)

Continuous impact assessment

Monitor publication metrics (i.e. Scopus & SciVal)

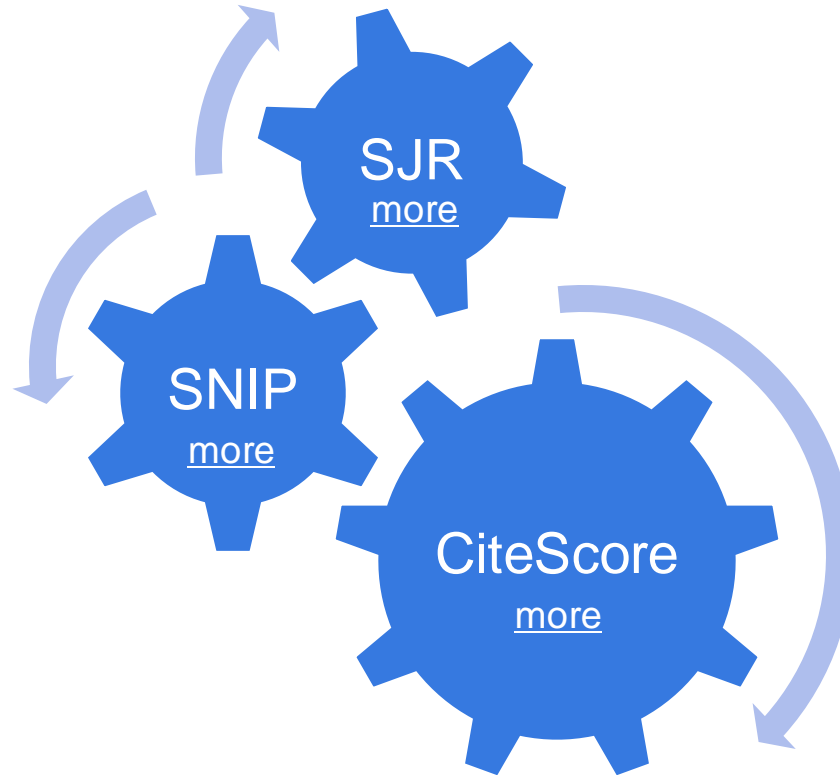
Showcase success stories of faculty publications and their impact on the university's visibility.

Emphasize the continuous improvement cycle in research and publication strategies.



by journal quartiles
the first step

Available metrics for Scopus data



Research on top-prominent topics



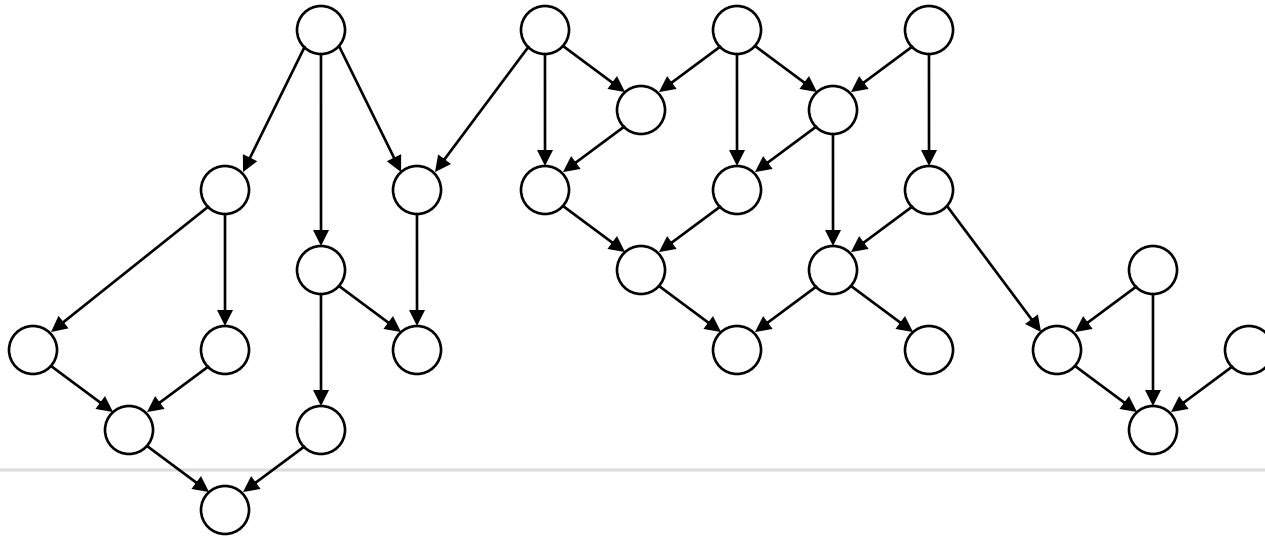
What are Research Topics?

Topics and their characteristics

- A topic is a collection of documents with a common intellectual interest
- Topics can be large or small, new or old, growing or declining
- Topics are dynamic and can evolve
- New topics can be born
- Many topics are inherently multidisciplinary
- Old topics may be dormant, but still exist
- Researchers have mobility and can contribute to multiple topics

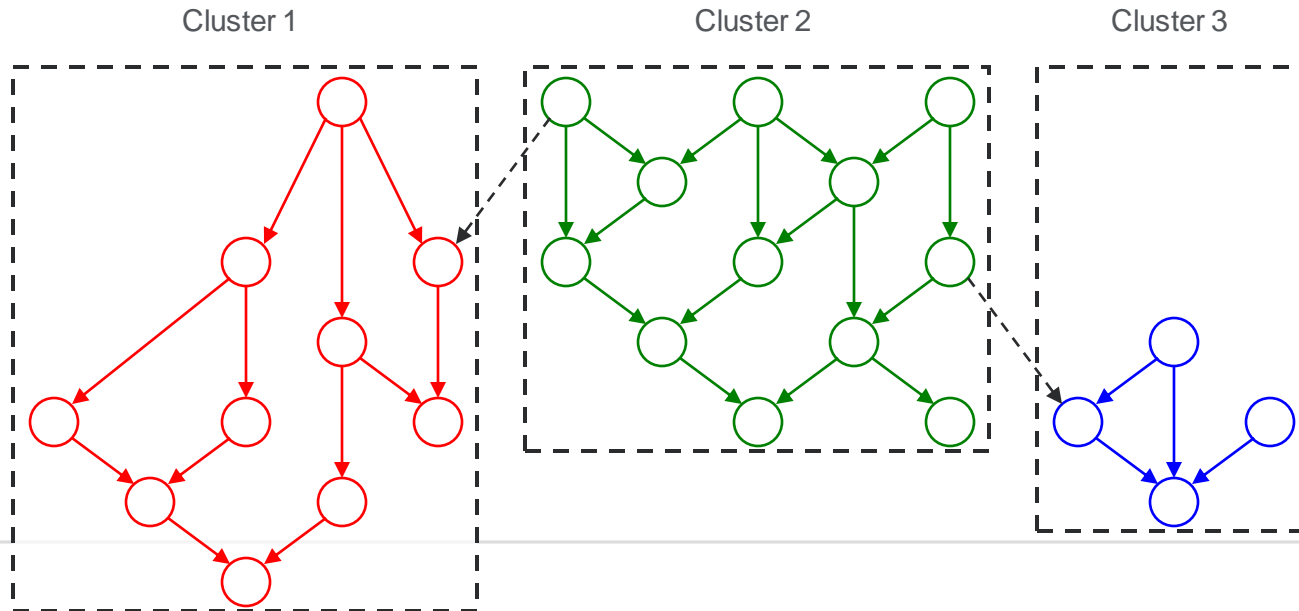
How Topics are identified

- All Scopus publications are clustered into topics using citation links
- ~68 million publications (1996-present) in ~96,000 topics



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Why so many?

- Fine-grained topics define the problem-level structure of science
- Topics really are different from each other
- Dynamics are far easier to discern with fine-grained topics than coarse-grained fields

Topic attributes

- ID (T.XXXX for Topics and TC.YYYYY for Topic Clusters)
- Topic name: most frequently used keywords
- Prominence

Prominence

A measurement of **visibility**

New indicator: Topic prominence

- Prominence combines 3 metrics to indicate the momentum of the topic
 - **Citation Count** in year n to papers published in n and n-1
 - Scopus **Views Count** in year n to papers published in n and n-1
 - Average **CiteScore** for year n
- Why call it “Prominence”
 - Prominence \neq Importance (Topics can be important but not prominent)
 - Prominence \sim Visibility

For papers, high topic prominence means...

- More likely to be found, read, and cited
- Higher chances to be accepted in a top journal
- Better success rate for grant applications

Why should we care?

(about Topics, and how to use them to grow your visibility)

Why should we care (regarding visibility)?



Topics facilitate a granular and up-to-date view of research trends: understand, how your portfolio appears in the global context



Topics can inform your outreach activities: reach relevant audience



Topics can inform your strategic decisions: focus on what will resonate



Topics can help your research get more intelligible: speak the terms accepted worldwide

Example

Utilising Topics for better visibility of your research in Public Health

Defining the area of interest

Advanced query ☐

SUBJMAIN (2739) AND TITLE-ABS-KEY (productiv*) AND (LIMIT-TO (PUBYEAR , 2021) OR LIMIT-TO (PUBYEAR , 2022) OR LIMIT-TO (PUBYEAR , 2023))

Show less

Edit in advanced search

Beta

Documents Preprints Patents Secondary documents Research data

2,881 documents found Analyze results

☐ All Export Download Citation overview More Show all abstracts Sort by Cited by (highest)

	Document title	Authors	Source	Year	Citations
<input type="checkbox"/> 1	Review • Open access Cadmium toxicity in plants: Impacts and remediation strategies	Haider, F.U., Liqun, C., Coulter, J.A., ...Wenjun, M., Farooq, M.	Ecotoxicology and Environmental Safety, 211, 111887	2021	519
	Show abstract 1Cate View at Publisher Related documents				
<input type="checkbox"/> 2	Article • Open access Work from home during the COVID-19 outbreak: The impact on	Galanti, T., Guidetti, G.,	Journal of Occupational	2021	302

ASJC field codes for "SUBJMAIN" are available <https://www.scopus.com/sources.uri> – Download Scopus Source List – last sheet

Identifying exemplary papers

- ☐ 2 Article • Open access
Work from home during the COVID-19 outbreak: The impact on employees' remote work productivity, engagement, and stress
Galanti, T., Guidetti, G., Mazzei, E., Zappalà, S., Toscano, F.
Journal of Occupational and Environmental Medicine, 63(7), pp. E426–E432

[Show abstract](#) [1Cate](#) [View at Publisher](#) [Related documents](#)

- ☐ 3 Article • Open access
Early impacts of the COVID-19 pandemic on the United States construction industry
Alsharef, A., Banerjee, S., Uddin, S.M.J., Albert, A., Jaselskis, E.
International Journal of Environmental Research and Public Health, 18(4), pp. 1–21, 1559

[Show abstract](#) [1Cate](#) [View at Publisher](#) [Related documents](#)

- ☐ 4 Article • Open access
Six key advantages and disadvantages of working from home in europe during covid-19
Ipsen, C., van Veldhoven, M., Kirchner, K., Hansen, J.P.
International Journal of Environmental Research and Public Health, 18(4), pp. 1–19, 1826

[Show abstract](#) [1Cate](#) [View at Publisher](#) [Related documents](#)

- ☐ 5 Review • Open access
A state-of-the-art review on indoor air pollution and strategies for indoor air pollution control
González-Martín, J., Kraakman, N.J.R., Pérez, C., Lebrero, R., Muñoz, R.
Chemosphere, 262, 128376

[Show abstract](#) [1Cate](#) [View at Publisher](#) [Related documents](#)

- ☐ 6 Review • Open access
Use of antimicrobials in food animals and impact of transmission of antimicrobial resistance on humans
Ma, F., Xu, S., Tang, Z., Li, Z., Zhang, L.
Biosafety and Health, 3(1), pp. 32–38

Exploring the Topics associated with the papers

SciVal Topics 

Topic name Personnel; Teleworker; Flexible Working

Prominence percentile 99.684 

SciVal Topics 

Topic name Biofiltration; Gas Waste; Biofilters

Prominence percentile 96.661 



×

Representative documents

Name

Documents

Top authors in this topic

Toscano, Ferdinando

10

Keyphrase analysis

Hensher, David Alan

10

Keyphrase analysis

View as [word cloud](#)



A A A relevance of keyphrase | declining A A A growing (2018-2022)

Close

Analyze in SciVal

Biofiltration; Gas Waste; Biofilters

×

Representative documents

Name

Documents

Top authors in this topic

Chen, Dongzhi

19

Keyphrase analysis

Cheng, Zhuowei

19

Keyphrase analysis

View as word cloud 

A A A relevance of keyphrase | declining A A A growing (2018-2022)

Close

More

The nearest future of Topics and their full functionality

Our plans for Topics for 2024

- **We expect to launch the new SciVal Topics in the first half of 2024.**
- Drawing upon recent methodological advancements the new updated set of Topics will be more precise and cohesive.
 - A significantly higher proportion of publications will be strongly linked to a Topic, providing greater relevance and precise insights.
- Other benefits:
 - More granularity and precision for Topics that have grown very large over time
 - Improved names for Topics and Topic Clusters
 - Future introduction of new Topic metrics
 - Future developments on Topic growth rate predictions
 - With the launch of the new SciVal Topics, the current Topics will no longer be available.

SciVal: using Topics at full swing



Informing strategic decisions

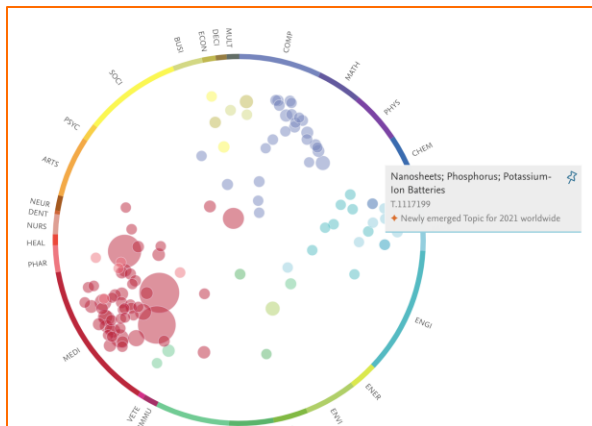


Expert search



Staying up-to-date on hot topics

And more...



	<input type="checkbox"/> Author	Affiliation	Scholarly Output	Views Count	Field-Weighted Citation Impact	Citation Count
1.	<input type="checkbox"/> Lambert, James H.	USA University of Virginia	22	649	0.86	70
2.	<input type="checkbox"/> Pennetti, Cody A.	USA University of Virginia	10	207	0.52	26
3.	<input type="checkbox"/> Polmateer, Thomas L.	USA University of Virginia	10	376	1.04	47
4.	<input type="checkbox"/> Andrews, Daniel J.	USA University of Virginia	7	254	1.08	40
5.	<input type="checkbox"/> Collier, Zachary A.	USA Radford University	6	190	0.67	17
6.	<input type="checkbox"/> Linkov, Igor	USA United States Army Engineer Research and Development Center	5	164	0.57	9

University rankings



What are University Rankings?

University rankings ***aggregate large amounts of information into consistent and comparable formats***, making them an important resource for decision-makers.








Rankings aim to ***highlight and compare an institution's relative strengths*** in key areas as supportive information and guidance, not only for potential students, but also for researchers and faculty.

A university's reputation and its global visibility are ***important indicators for supporting academic and institutional goals***.



Quick guide to 7 major ranking reports

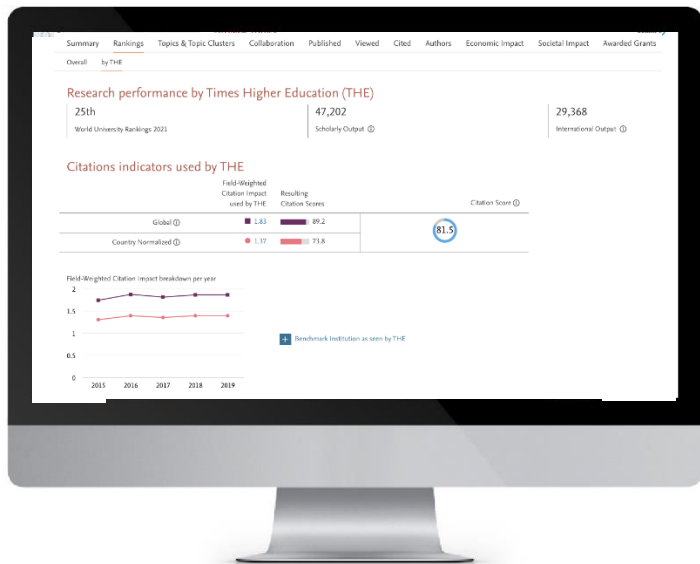
This quick reference table provides a look into 7 major and influential ranking reports. Use the information to quickly compare and identify what each of the 7 reports focuses on, and what contributes to their methodologies.

 <p>Report: Shanghai Rankings Focus: Global Scope: 1800+ institutions are ranked annually, top 1000 are published Timing: Annually (August)</p>	 <p>Report: World University Rankings Focus: Global Scope: 1,500+ institutions Timing: Annually (September)</p>	 <p>Report: World University Rankings Focus: Global Scope: 1,000 institutions Timing: Annually (Spring)</p>	 <p>Report: Best University Rankings Focus: Global Scope: 1,500 institutions across more than 80 countries Timing: Annually (October)</p>
 <p>Report: Impact Rankings Focus: United Nations' Sustainable Development Goals (SDGs) Scope: 768 institutions (changes annually) Timing: Annually April</p>	 <p>Report: WUR by Subject Focus: Individual subject areas (48) Scope: 1,000 institutions Timing: Annually (Spring)</p>	 <p>Report: CWTS Leiden Rankings Focus: Research-intensive universities Scope: 1,000 institutions Timing: Annually (June)</p>	

Analytical Services, SciVal & Scopus:

Providing research information and bibliometric data underpinning significant portions of rankings

Over the past decade, ranking organizations have increasingly turned to Scopus and SciVal for the research information and bibliometric data used to implement their ranking methodologies.



QS WORLD UNIVERSITY RANKINGS

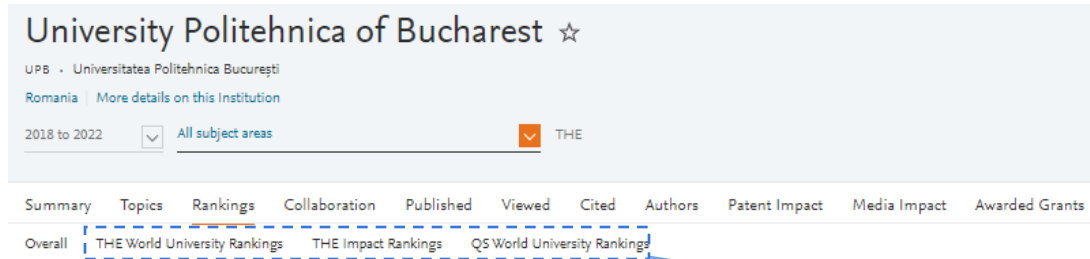


THE WORLD UNIVERSITY RANKINGS



Note: Dataset draws upon the more than 23,400 titles indexed in Scopus & analyzes over 77 million citations to 12.8 million articles, reviews, conference proceedings, books and book chapters.

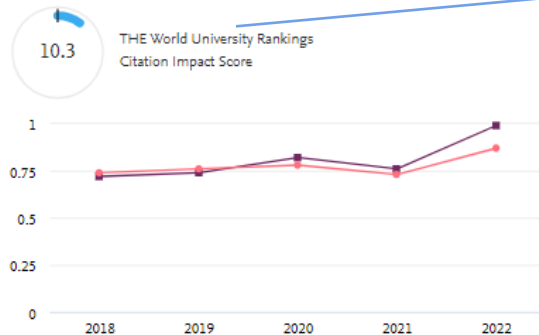
Analyze the drivers behind the THE



Times Higher Education (THE) World University Rankings

Ranking year 2024 ▾ ⓘ

Citation Impact ⓘ



Global and Country Normalized metrics at the University Politehnica of Bucharest considered for the Citation Impact (THE) indicator

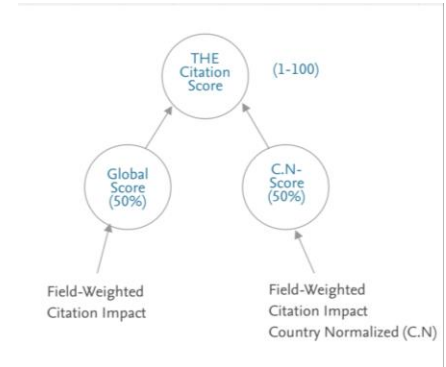
Metric type	Field-Weighted Citation Impact (5 year)	Resulting Citations Score
Global	0.80	11.66
Country Normalized	0.77	9.03

Ranking years comparison

Supported rankings

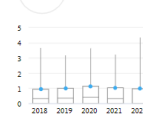
Citation Impact with the underlying:

- Global citations scores &
- Country-normalised scores



Research Strength ⓘ

16.9 THE World University Rankings Research Strength Score



1.01

75th Field-Weighted Citation Impact (5 Year) percentile at the University Politehnica of Bucharest

the Research Strength (THE) indicator

Patents ⓘ

26.6 THE World University Rankings Patents Score (THE)

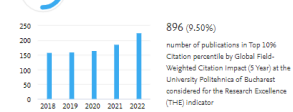
170 Scholarly Output have received 303 Patent-Citations

number of Patent Citations from Patents filed between 2018 and 2022, that cite any scholarly Output published at the University Politehnica of Bucharest

Publication year of patent documents

Research Excellence ⓘ

50.7 THE World University Rankings Research Excellence Score



896 (9.50%)

number of publications in Top 10% Citation percentile by Global Field-Weighted Citation Impact (5 Year) at the University Politehnica of Bucharest considered for the Research Excellence (THE) indicator

Impact and potential at subject area level (1)

Country Normalized Field-Weighted Citation Impact (5 year) for Gh. Asachi Technical University

THE World University Rankings 2024

[Metric guidance](#) [+ Add to Reporting](#) [Export](#) ✕

Table

Chart



Metric rank percentile



Heatmap

Low



High

Subject 11

Overall

2018

2019

2020

2021

2022

All categories

0.80

0.88

0.83

0.75

0.78

0.79

Arts and Humanities

1.63

3.93

0.70

0.65

2.29

1.29

Business and Economics

1.00

1.66

1.26

0.74

0.71

0.78

Clinical, pre-clinical and health

0.77

0.86

0.80

0.65

0.78

0.80

Computer Science

0.72

0.88

0.75

0.76

0.68

0.65

Education

0.44

0.00

0.26

0.68

0.00

1.93

Engineering and Technology

0.85

1.01

0.91

0.86

0.77

0.76

Law

0.00

0.00

0.00

0.00

0.00

0.00

Life Sciences

1.32

1.10

1.23

1.13

1.56

1.29

Physical Sciences

0.88

0.86

0.85

0.75

0.88

1.02

Psychology

1.48

0.00

0.77

0.00

0.00

1.80

Social Sciences

0.93

1.32

1.31

0.92

0.93

0.70

Impact and potential at subject area level (2)

Publications at Gh. Asachi Technical University

THE World University Rankings 2024 · Within: **Psychology**

Export ▾

Authors

- ☐ Ciobanu, C.I. 2
- ☐ Williams, C.C. 2
- ☐ Andronic, R.L. 1
- ☐ Choo, L.S. 1
- ☐ Constantin, T. 1

Show more View all

Institutions

- ☐ Gh. Asachi Technical University 4
- ☐ Alexandru Ioan Cuza University of Iasi 2
- ☐ University of Sheffield 2
- ☐ Grigore T. Popa University of Medicine and Pharmacy 1
- ☐ Iran University of Medical Sciences 1

Apply filter Options ▾

4 publications considered in THE World University Rankings 2024. | [Save as Publication Set](#)

Title	Authors	Year	Scopus Source	Citations ▾
Factors influencing students' continuance usage intention with online learning during the pandemic: a cross-country analysis View abstract View in Scopus	Taghizadeh, S.K., Rahman, S.A., Nikbin, D. and 4 more	2022	Behaviour and Information Technology	19
Who Purchases From the Informal Economy and Why? <i>Open Access</i> View abstract View in Scopus	Horodnic, I.A., Ciobanu, C.I., Zait, A. and 1 more	2022	Frontiers in Psychology	3
Informal payments by patients, institutional trust and institutional asymmetry <i>Open Access</i> View abstract View in Scopus	Horodnic, A.V., Williams, C.C., Ciobanu, C.I. and 1 more	2022	Frontiers in Psychology	1
Type of goals and perceived control for goal achievement over time. The mediating role of motivational persistence <i>Open Access</i> View abstract View in Scopus	Bostan, C.M., Apostol, A.-C., Andronic, R.-L. and 2 more	2022	Acta Psychologica	0

or on QS Rankings

University Politehnica of Bucharest ☆

UPS · Universitatea Politehnică București
Romania · [More details on this institution](#)

2017 to 2021 ▾ All subject areas ▾ QS

[Data sources](#)

[Report from template](#)

[Summary](#) [Topics](#) [Rankings](#) [Collaboration](#) [Published](#) [Viewed](#) [Cited](#) [Authors](#) [Patent Impact](#) [Media Impact](#) [Awarded Grants](#)

[Overall](#) [THE World University Rankings](#) [THE Impact Rankings](#) [QS World University Rankings](#)

QS World University Rankings 2024 ⓘ

[Metric guidance](#) [+ Add to Reporting](#) [Export ▾](#)

[Institution definition used](#)

1201–1400

QS World University Rankings

10,198

Scholarly Output (QS)

17.95% used by International Research Network

[View list of publications](#)

Citations per Faculty

39,151

Citation Count (QS)

62,313

Sum of faculty Citation Counts (QS)

44,243

Normalized Total Citation Count (QS)

International Research Network

90.4

Partners (QS)

28.8

Locations (QS)

44.99

International Research Network (IRN) Index (QS)

Citations per Faculty ⓘ

[Metric guidance](#)

Metrics	Arts & Humanities	Engineering & Technology	Life Sciences & Medicine	Natural Sciences	Social Sciences & Management	Total	Deduplicated Count
✓ Scholarly Output (QS)	92	8,701	1,027	5,534	1,063	16,417	10,198
Excluded Scholarly Output	0	229	156	249	6	640	467
Total Scholarly Output	92	8,930	1,183	5,783	1,069	17,057	10,665
✓ Citations (QS)	321	30,729	7,314	20,358	3,591	62,313	39,151
Excluded self-citations	132	11,012	1,643	8,753	1,024	22,564	14,198
Total Citations	453	41,741	8,957	29,111	4,615	84,877	53,349
✓ Normalized Total Citation Count (QS)	2,309	26,427	6,033	23,266	3,139	44,243	N/A
Weighting Factor (QS)	15.33	0.63	0.61	0.84	1.98	N/A	N/A
Weighting Adjustment Ratio (QS)	0.47	1.36	1.36	1.36	0.44	N/A	N/A

International Research Network (IRN) ⓘ

ⓘ

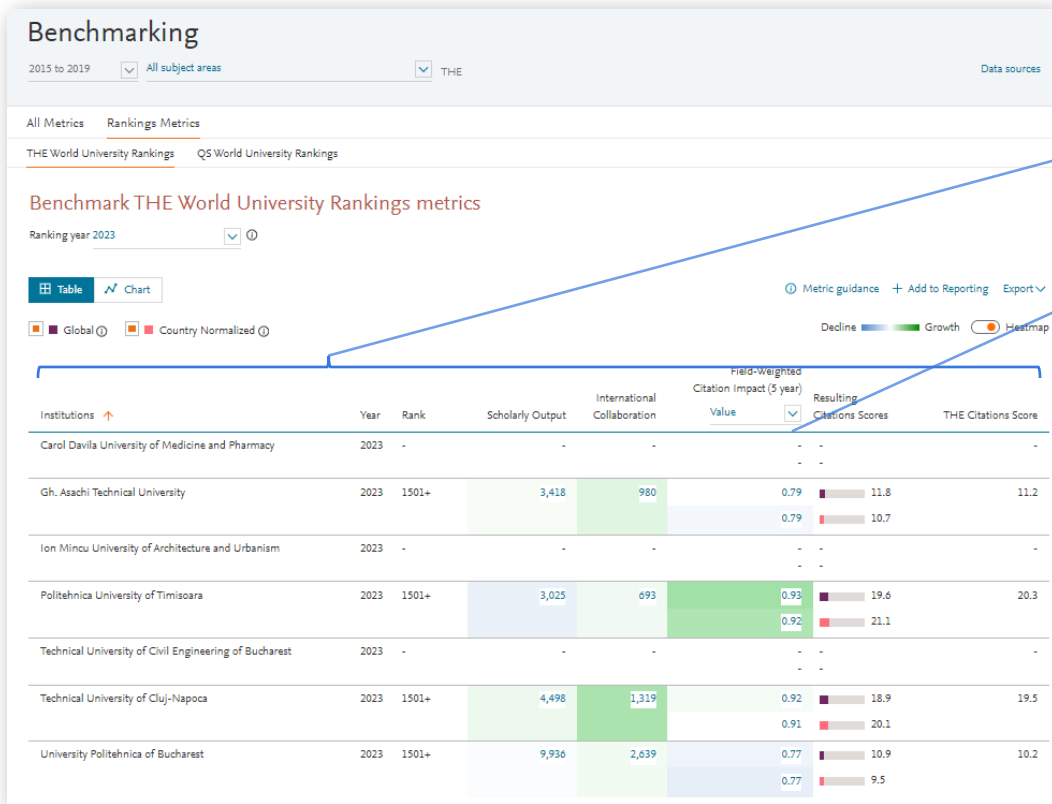
QS metrics	Arts & Humanities	Engineering & Technology	Life Sciences & Medicine	Natural Sciences	Social Sciences & Management	Total
IRN Scholarly Output (QS)	19	1,453	214	1,013	160	1,831 [a]
Locations (QS)	2	59	20	52	11	28.8 [b]
Partners (QS)	2	223	34	175	18	90.4 [b]
Non-Scaled International Research Network (IRN) Index (QS) ⓘ	2.89	10.91	5.67	10.07	3.81	N/A
International Research Network (IRN) Index (QS) ⓘ	28.12	77.98	28.74	63.34	26.75	44.99 [b]

[a] Total deduplicated count

[b] Total average between Faculty areas

Benchmark with peers and analyze ranking trends:

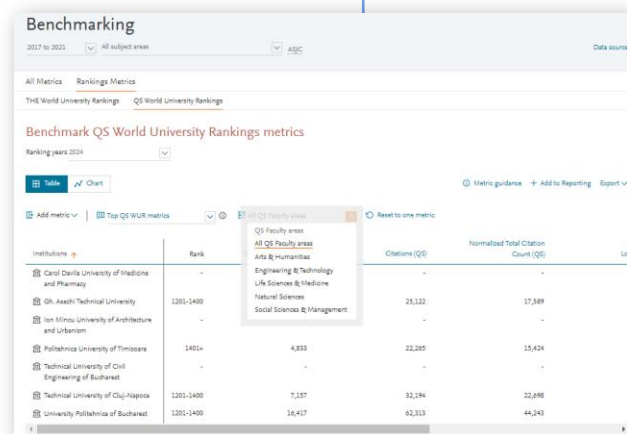
Analyses and information to understand performance and inform plans



Benchmark with peers across all bibliometric drivers

Heatmap visualizing trends

Compare on QS ranking



Exploring new opportunities

The screenshot displays the SciVal interface for the Gh. Asachi Technical University. The top navigation bar includes links for Overview, Benchmarking, Collaboration, Trends, Grants, Impact, Reporting, My SciVal, and Search. The left sidebar lists various institutions, with a search bar at the top. The main content area shows the university's profile, including its name, location (Romania), and a star icon. A dropdown menu is open, displaying a list of subject areas, with 'Engineering and Technology' highlighted. Below the dropdown, the 'Times Higher Education' ranking is shown for the year 2024, with a score of 1501+. The bottom section features four circular gauges representing different metrics: Research Productivity (THE) at 21.1, International Co-authorship (THE) at 18.6, Citation Impact (THE) at 17.0, and Research Strength (THE) at 19.7. The SciVal logo is visible in the top left corner, and the Elsevier logo is in the bottom left corner.

SciVal

Overview Benchmarking Collaboration Trends Grants Impact Reporting My SciVal Search

Institutions and Groups

Search

Bulgarian SciVal Consortium

Carol Davila University of Medicine and Pharmacy

Gh. Asachi Technical University

Ion Mincu University of Architecture and Urbanism

Politehnica University of Timisoara

Technical University of Civil Engineering of Bucharest

Technical University of Cluj-Napoca

University of Szeged

University Politehnica of Bucharest

Gh. Asachi Technical University ☆

Universitatea Tehnică "Gheorghe Asachi" din Iași

Romania | More details on this Institution

2018 to 2022

Engineering and Technology

THE

Search Subject areas

Business and Economics

Clinical, pre-clinical and health

Computer Science

Education

Engineering and Technology

Law

Life Sciences

Physical Sciences

Psychology

Social Sciences

Summary Topics

Overall THE World

Times Higher Education Rankings

Ranking year 2024

1501+

World University Rankings

21.1

Research Productivity (THE)

18.6

International Co-authorship (THE)

17.0

Citation Impact (THE)

19.7

Research Strength (THE)

+ Create group Options

Mapped subject classifications to ASJC

In some cases: the reports according to international classifications (e.g. FORD – Fields of Research and Development) are required.

Together with experts we did mapping. You can find some mappings (including QS, THE) here: https://service.elsevier.com/app/answers/detail/a_id/21717/supporthub/scival/kw/qs/#panel3b

How were the subject classifications mapped to ASJC?

The categories in the Scopus ASJC classification were mapped to equivalent categories in the all classifications.

- The classifications were mapped at category level (ASJC category to target category)
- The ASJC categories were manually mapped to categories in the three other classifications.
- Many categories could be mapped to a single ASJC category. In some cases, multiple ASJC categories were mapped to a single target category, and vice versa

99.2% of publications were mapped from ASJC to the FoR, FORD and REF 2014 classifications. Only the ASJC category "Multidisciplinary" was not mapped to a category in the other classifications because there was no equivalent.

Download the mappings:

- [↓ THE](#) (Excel sheet)
- [↓ REF 2014](#) (Excel sheet)
- [↓ QS](#) (Excel sheet)
- [↓ KAKEN](#) (Excel sheet)
- [↓ FORD](#) (Excel sheet)
- [↓ FoR](#) (Excel sheet)

Mapping file

Example: «THE to ASJC mapping». Life Sciences in THE classification – 32, in ASJC subject categories accordingly: 1100 or 1101 or 1102 or 1103 or 1104 or 1105 or 1106 or 1107 or 1108 or 1109 or 1110 or 1111 or 1300 or 1301 or 1302 or 1303 or 1304 or 1305 or 1307 or 1308 or 1309 or 1311 or 1312 or 1313 or 1314 or 1315 or 2400 or 2401 or 2402 or 2403 or 2404 or 2405 or 2406 or 2702 or 2723 or 2732 or 3005 or 3400 or 3401 or 3402 or 3403 or 3404

THE_subject_id	THE_subject_area	asjc334
32	Life Sciences	1100
32	Life Sciences	1101
32	Life Sciences	1102
32	Life Sciences	1103
32	Life Sciences	1104
32	Life Sciences	1105
32	Life Sciences	1106
32	Life Sciences	1107
32	Life Sciences	1108
32	Life Sciences	1109
32	Life Sciences	1110
32	Life Sciences	1111
32	Life Sciences	1300

How to use in Scopus

In “Advanced search” create a query with these subject categories codes, using search field SUBJMAIN and add affiliation profile’s ID or author profile’s ID.

Example: number of publications on Life Sciences (THE classification) for Universitatea Tehnica Gh. Asachi din Iasi:
AF-ID (60009915) AND SUBJMAIN (1100 or 1101 or 1102 or 1103 or 1104 or 1105 or 1106 or 1107 or 1108 or 1109 or 1110 or 1111 or 1300 or 1301 or 1302 or 1303 or 1304 or 1305 or 1307 or 1308 or 1309 or 1311 or 1312 or 1313 or 1314 or 1315 or 2400 or 2401 or 2402 or 2403 or 2404 or 2405 or 2406 or 2702 or 2723 or 2732 or 3005 or 3400 or 3401 or 3402 or 3403 or 3404)

[Basic Search](#) [Advanced](#) [Search tips](#)

Enter query string

AF-ID("Universitatea Tehnica Gh. Asachi din Iasi" 60009915) AND SUBJMAIN(1100 OR 1101 OR 1102 OR 1103 OR 1104 OR 1105 OR 1106 OR 1107 OR 1108 OR 1109 OR 1110 OR 1111 OR 1300 OR 1301 OR 1302 OR 1303 OR 1304 OR 1305 OR 1307 OR 1308 OR 1309 OR 1311 OR 1312 OR 1313 OR 1314 OR 1315 OR 2400 OR 2401 OR 2402 OR 2403 OR 2404 OR 2405 OR 2406 OR 2702 OR 2723 OR 2732 OR 3005 OR 3400 OR 3401 OR 3402 OR 3403 OR 3404)

[Outline query](#) [Add Author name / Affiliation](#) [Clear form](#) [Search](#)

Filters

Year

Author name

Subject area

Document type

Source title

Keyword

Affiliation

☐ 1

Review
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Karimi, F., Karimi-Maleh, H., Rouhi, J., ...Ayati, A., Krivoschapkin, P.

Environmental Research, 239, 1173

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Karimi, F., Zare, N., Jahanshahi, R., ...Fakhari, F., Karimi-Maleh, H.

Environmental Research, 238, 1172

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Review
Traditional methods and biosensors for detecting disinfection by-products in water: A review

Wu, T., Karimi-Maleh, H., Dragoi, E.N., ...Zhang, D., Zhang, Z.

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Vasilachi-Mitoseru, I.-C., Stoleru, V., Gavrilescu, M.

Plants, 12(21), 3754

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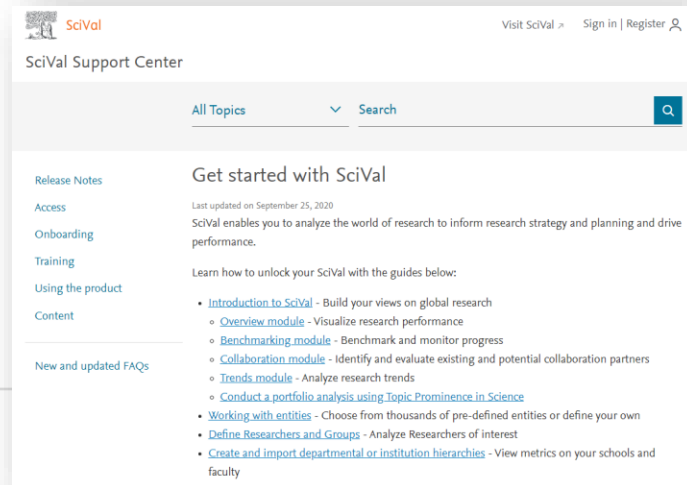
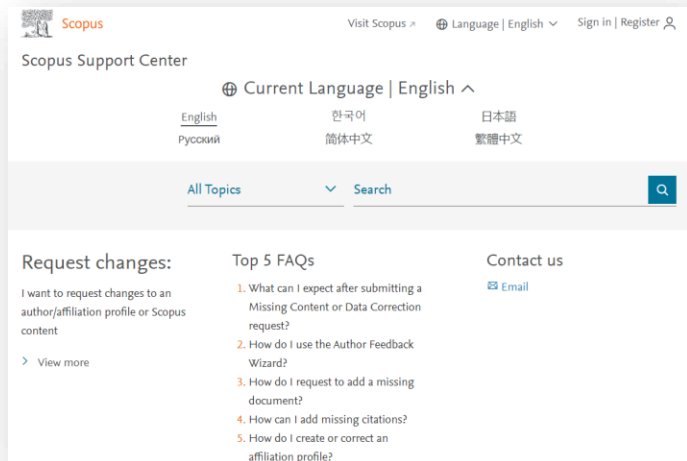
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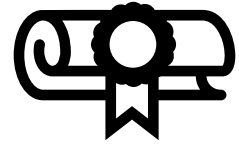
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