

Elsevier : A Brief Overview







Who We Are

Global information analytics business specializing in science and technology

Why We Do It

To help solve your challenges, for the benefit of the scientific community

B ELSEVIER CO

What We Do

Help scientists and researchers improve performance and advance science

A Unique Combination

Combine content with technology, supported by operational efficiency, to turn information into actionable knowledge.

Elsevier, because informed decisions lead to better outcomes





Trusted in research & health

- We are trusted for 2,700+ digitized journals, including The Lancet *≯* and Cell *≯* and 43,000+ eBooks.
- We organize the review, editing and dissemination ~18% of the world's scientific articles contributing to a more scientifically literate society.
- 99% of Nobel Prize winners have published with Elsevier.
- >1.6 billion articles downloaded by researchers in 2020.
- 94% of the top 100 health systems (ranked by bed count) use at least one of Elsevier's Clinical Solutions.

The future is open

- We give authors and institutions choice in how they publish and access research.
- More "transformative agreements" than any other publisher.
- Nearly all our journals enable open access, including over 600 fully open access journals.
- In 2021, Elsevier published **119,000** gold or pay-to-publish OA articles - a year on year growth rate of over 46%.

The innovation delta

- Our unique delta of data, analytics and evidence is enabling innovation.
- We're transforming medical learning immersive visualization, digital simulations and virtual reality.
- We combine advanced technology such as ML and NLP with reliable information to put users in control to focus on their goals and improve outcomes.

Partnering for a better world

- Committed to UNSDGs global health, inclusion and diversity, reducing inequalities, and climate action.
- We are convening the experts and taking action in gender equality, race and ethnicities, disability, sexual orientation, and generations.
- And we're committed to doing our part in this global health crisis for our people and all people.

Mission

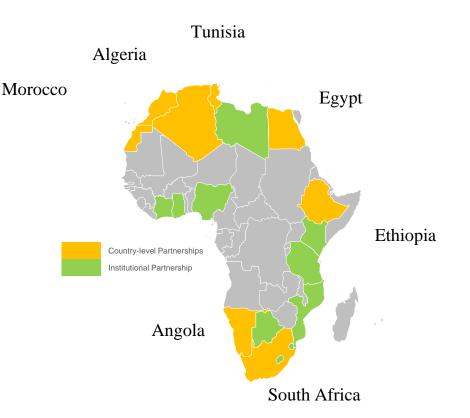
Elsevier helps researchers and healthcare professionals advance science and improve health outcomes for the benefit of society.



Elsevier employs 8,700 people, including 1,922 technologists in >180 countries. Many of us began our careers in research and healthcare. We share the community's belief in the power of science, research and medicine.

Partnership beyond Access: Building Value for All Research Community

- Capacity Building Programs
 - Training for Researchers
 - o Author Workshops
 - Selecting Journals for Publishing & Avoiding Predatory Journals
 - o Researcher Trainings
 - o Get relevant Funding
- Support Digital transformation:
 - Educational Programmes
 - o Undergraduates
 - o Postgraduates
- Special Trainings
 - o Editor Workshops
 - o University Ranking Workshops
 - Research strategy workshops
- Consultation Services for Decision Makers







Thank you

For more information, visit https://www.elsevier.com/about/this-is-elsevier





Elsevier Support for Rankings & Beyond

Amr Moneim, Regional Manager Research Intelligence Lucia Schoombee, Senior Customer Consultant Research Intelligence

24 November 2022



Agenda

- How Elsevier supports Rankings
- About Scopus
- The significance of Citations in Rankings
- Insight into Scopus data in the THE Rankings
- Insight into Scopus data in the QS Ranking
- How we support Universities
- Driving excellence beyond Rankings
- Conclusion





Elsevier – Rankings Partnership



Elsevier's position on rankings ... and metrics in general

All rankings have their strengths and potential disadvantages and we do not rank the rankings!

- We believe in working on fundamentals with a *"basket of indicators",* always as a complement to peer opinion
- Informed decisions are better decisions
- Metrics should complement, not replace human judgment
- Well-selected metrics drive positive behaviors
- Metrics can help monitor and eliminate biases





Bibliometric data providers vs. Ranking agencies

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.







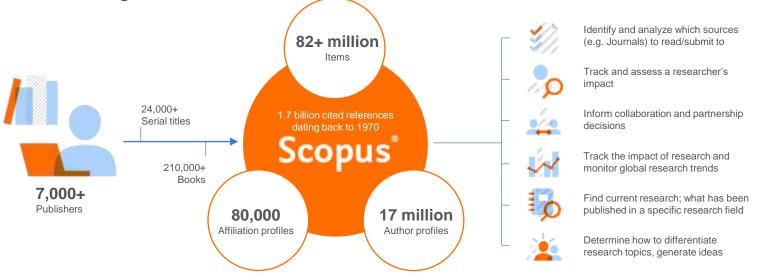
About Scopus

Providing the bibliometric datasets behind the Rankings



Scopus

Is a source-neutral abstract and citation database curated by independent subject matter experts. It is the underlying data source for SciVal and the bibliometric dataset used in rankings





The Scopus data model

The Scopus data model is designed around the notion that **publications** are written by **authors** that are affiliated with **institutions**.

82+ million Items records from journals, books, and book series. conference proceedings and trade publications Author Affiliation 17 million 80,000 author profiles affiliation profiles

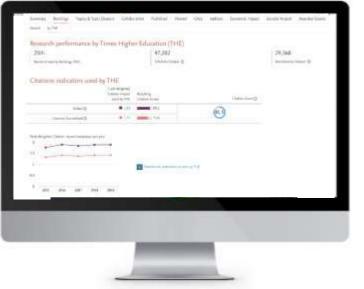




Significance of Citation data in Rankings



Citation share in prominent 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.

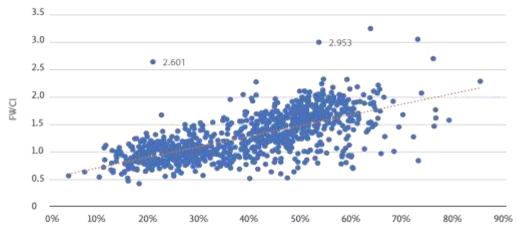
What is the Field-Weighted Citation Impact (FWCI)?

FWCI is a normalized citation impact metric which is an indicator of the citation impact of a publication. It compares the actual number of citations received by an entity's publications with the number of citations expected for each publication based on the **subject field, publication type and publication year.**

- FWCI counts citations in the calendar year of publication and the following three years
- It is calculated using the ratio of the citations received and the citations expected for a publication given the **publication year**, **publication type** and **subject area**.
- A FWCI of more than 1.00 indicates that the entity's publications have been cited **more than would be expected based on the global average** for similar publications. For example, a FWCI of 2.11 means 111% more than the global average.
- A FWCI of less than 1.00 indicates that the entity's publications have been cited **less than would be expected based on the global average** for similar publications; for example, 0.87 means 13% less than the global average.



Field-Weighted Citation Impact (FWCI) and International Collaboration*



There appears to be some positive correlation between **FWCI** and the proportion of an institutions publications which involve an **international coauthor**, 2 metrics used as the basis for parts of the THE ranking methodology

PROPORTION OF TOTAL PUBLICATIONS WITH AT LEAST ONE INTERNATIONAL CO-AUTHOR

- International collaboration expands your network which can provide access to larger audiences to discover and use your research findings
- Although the correlation doesn't appear very strong, more international collaboration seems to have a positive effect on citation impact as measured by the FWCI





Times Higher Education World University Rankings (WUR) What makes up the THE World University Rankings?





World University Rankings 2021



Ranking organization: Times Higher Education (THE)

Ranking report: World University Rankings

Report focus:

Global

Stated goal:

- Evaluate research-intensive universities across all their core missions: teaching, research, knowledge transfer and international outlook.
- Provide trusted performance data on universities for students and their families, university academics, university leaders, governments and industry

Scope:

1,500+ institutions

Data sources:

Academic Reputation Survey | Elsevier's Scopus database

Timing:

Annually (September)

Data snapshot:

Start May (profile changes should be complete by March)

Source: : https://www.timeshighereducation.com/world-university-rankings/world-university-rankings-2021-methodology https://www.timeshighereducation.com/sites/default/files/breaking_news_files/the_2021_world_university_rankings_methodology_ 24082020final.pdf

Website accessed on: 9 June 2021





THE uses 13 indicators to position more than 1,500+ institutions worldwide. These performance indicators are grouped into five areas (as shown to the right).

30% Teaching (the learning environment):

- 15.0% Reputation survey
- · 4.50% Staff-to-student ratio
- 2.25% Doctorate-to-bachelor's ratio
- 6.00% Doctorates-awarded-to-academic-staff ratio
- 2.25% Institutional income

30% Research (volume, income and reputation):

- 18.0% Reputation survey
- 6.0% Research income
- 6.0% Research productivity

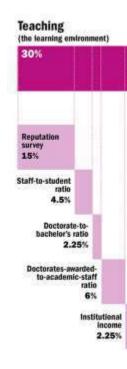
30% Citations (research influence)

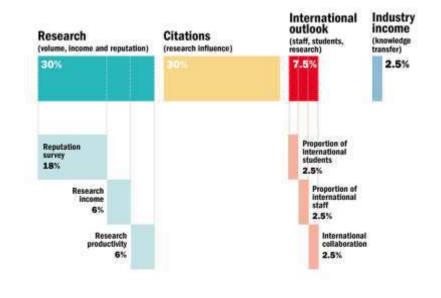
7.5% International outlook (staff, students and research)

- · 2.5% Proportion of international students
- · 2.5% Proportion of international staff
- 2.5% International collaboration

2.5% Industry income (knowledge transfer)

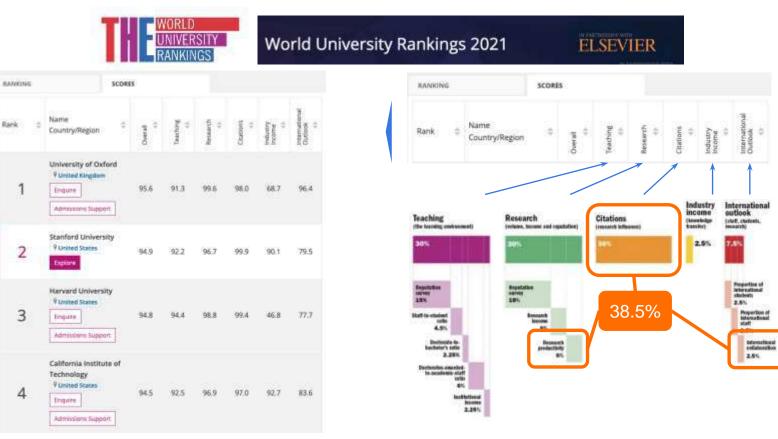




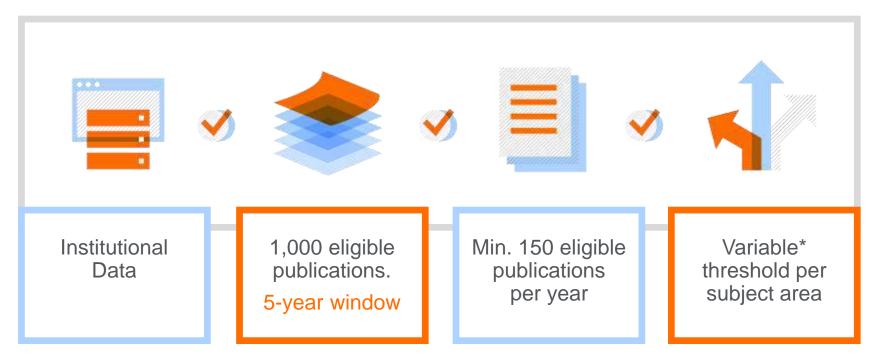


The bibliometric dataset from Elsevier

38.5% of the Overall ranking score



Criteria for institutions to be ranked in THE WUR?





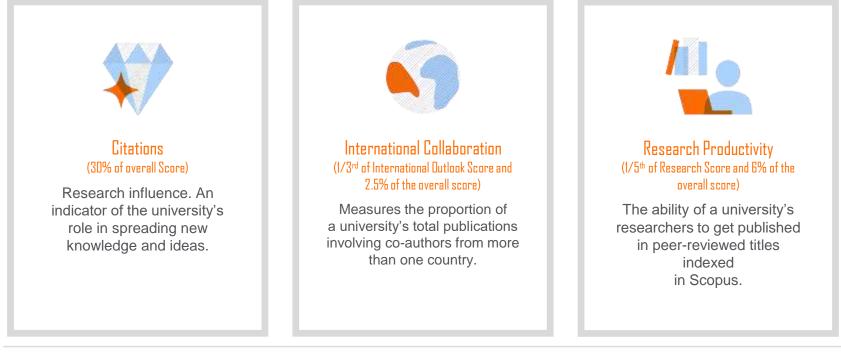


Deep-dive into the Scopus data parameters

Metrics are calculated using a THE bibliometric dataset only



THE World University Rankings Methodology – where is the bibliometric dataset from Elsevier contributing





Research Productivity - Scholarly Output 1/5th of Research Score and 6% of the overall score



- Research productivity is based on the Scholarly Output (articles, reviews, conference proceedings, books and book chapters) published in sources indexed by Scopus® per institution. The indicator is scaled for institutional size and normalized for subject.
 - Publications with >1,000 authors are fractionally counted
 - Scaling for institutional size is based on the number of staff declared by universities in each of the 11 THE subject area as part of the Academic Reputation Survey
 - THE also devised a method to give credit for publications that are published in subjects where a university did not declare any staff



*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.

International Outlook - International collaboration 1/3rd of International Outlook Score and 2.5% of the overall score



- The international collaboration indicator looks at all publications in the bibliometric dataset and counts the number of publications that are considered 'international output' based on international co-authorship
 - Publications with >1,000 authors are fractionally counted
 - Publications are considered and 'international output' when they have 'more than 1 author, more than 1 institution and more than 1 country code'
 - The indicator is the calculated as the proportion of the universities total publications that have at least one international co-author and is also subject normalized to account for differing subject profiles for universities

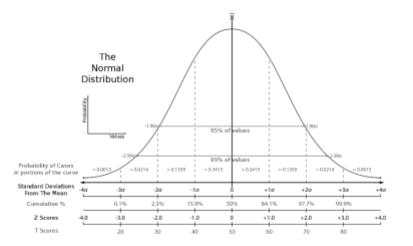


*Note: Dataset draws upon the more than 23,400 titles indexed in Scopus & analyzes over 77 million citations to 12.8 million articles, reviews, conference proceedings, books and book chapters.

Citations (research influence) 30%

Indicator of a university's "role in spreading new knowledge and ideas."

- The final THE Citations Score is based on a *5-year FWCI*, calculated using only the THE bibliometric dataset
- This 5-year FWCI is used to calculate *two citation scores* which are then averaged to produce the final score for each institution
- Publications with >1,000 authors are fractionally counted
- The First is the global citation score (normalized Z-score)
 - Each FWCI is analyzed in terms of the number of standard deviations from the mean which is then transformed into a Citation Score that ranges from 0-100
- The second is the country normalized citation score
 - Adjusts the FWCI per university based on how they are placed relative to other universities in the same country
 - Each country normalized FWCI is then analyzed in terms of the number of standard deviations from the mean which is then transformed into a Citation Score that ranges from 0-100







Times Higher Education Impact Rankings





How universities are ranked

THE uses indicators to provide comparisons across three broad areas: research, outreach, and stewardship, across all of the SDGs.

Any university that provides data on <u>SDG 17 and at least three</u> <u>other SDGs</u> is included in the overall ranking.

Universities can submit data on as many of the SDGs as they are able. Each SDG has a series of metrics that are used to evaluate the performance of the university in that SDG.

Methodology

A university's final score in the overall table is calculated by combining its score in SDG 17 with its top three scores out of the remaining 16 SDGs. <u>SDG 17 accounts for 22% of the overall</u> <u>score, while the other SDGs each carry a weight of 26%.</u> This means that different universities are scored based on a different set of SDGs, depending on their focus.

The SDGs included:





UN SDGs in SciVal and THE Impact Rankings

- THE are using the new SDG queries as part of the THE Impact Rankings methodology
- 16 of the <u>17 SDGs</u> are available to analyze on SciVal as predefined Research Areas using newly updated queries.
- The queries were **created by our data science teams** working with experts to create representations of each SDG and enable detailed analysis of the research contributing to achieving the SDGs.
- We continue to <u>collaborate and gather feedback with customers</u> and the community to help improve the queries in the future

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|--|---|--|--|--|
| Goal 1: End poverty in all its forms everywhere | Goal 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture | Goal 3: Ensure healthy lives and promote well-being for all at all ages | Goal 4: Ensure inclusive and guality education for all and promote lifelong learning | Goal 5: Actieve gender equality and empow all women and girls |
| 6 CLAN HALTH AND CANATIANIN T | 7 defendation | 8 ECCH HER AN ECCHANGE LIGHTS | 9 ACCOUNTING | |
| Goal 6: Ensure access to water and sanitation for all | Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all | Goal 8: Promote inclusive and sustainable economic growth, employment and decent work for all | Goal 9: Build resilient infrastructure, promote sustainable industrialization and foster innovation | Goal 10: Reduce inequality within and among countries |
| | 12 REPORTED INCREMENTS INCREMENTS | 13 2000 | 14 secondare | 15 titlae 4 |
| Goal 11: Make cities inclusive, safe, resilient and sustainable | Goal 12: Ensure sustainable consumption and production patterns | Goal 13: Take urgent action to combat climate change and its impacts | Goal 14: Conserve and sustainably use the oceans, seas and marine resources | Goal 15: Sustainably manage forests, combat desettification, halt and reverse land degradation, halt biodiversity loss |
| 16 Prace Antitel Additional Petitional | 17 Notestation | SUSTAINABLE GOALS DEVELOPMENT GOALS | | |
| Goal 16: Promote just, peaceful and inclusive societies | Goal 17: Revitalize the global partnership for | | | |

sustainable development





QS World University Rankings

What makes up the QS World University rankings?





Ranking organization: QS

Ranking report: QS World University Rankings

Report focus:

Global

Stated goal:

For students seeking to understand how their prospective university choices are perceived by the global academic community, and by potential employers across the world.

Scope: 1,000 institutions

Data sources: Elsevier's Scopus database

Timing: Annually (Spring)



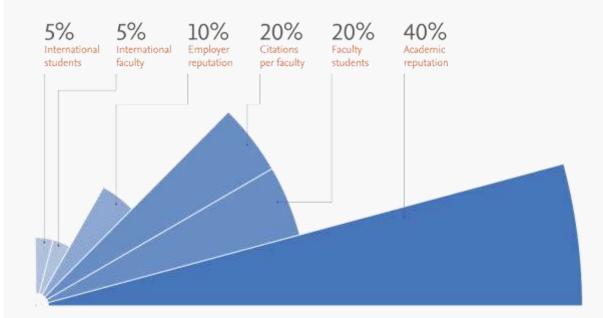
Source: https://www.topuniversities.com/qs-world-university-rankings/methodology

Website accessed on: 19 May 2021



QS uses a consistent methodological framework, compiled from **six simple metrics** to capture university performance. Faculty area normalization was introduced in 2015 to ensure that institutions specializing in Life Sciences and Natural Sciences were not unduly advantaged, QS World University Rankings evaluates universities according to six metrics:

- 5% International student ratio
- 5% International faculty ratio
- 10% Employer reputation
- 20% Citations per faculty, sourced from Scopus
- 20% Faculty/student ratio
- 40% Academic reputation





QS World University Rankings Methodology 2022 The bibliometric dataset from Elsevier



Publications indexed in Scopus in the 5-year period (2015-2019) and citations in the 6-year period (2015-2020).



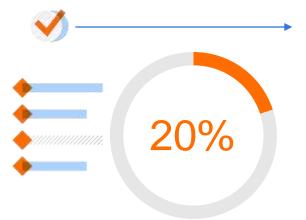
Scopus affiliation IDs which QS then map to their own institutions for use in the QS rankings methodology



Six publication types: articles, articles in press, reviews, conference proceedings, books, book chapters



QS World University Ranking & Elsevier



Citations per Faculty

Contributes to 20% of the QS World University Ranking

- The total number of citations received by all papers produced by a university across a five-year period divided by the number of faculty members at that institution
- All bibliometric data is sourced from the Scopus database, excludes selfcitations and is provided as Scopus Custom Data
- Citations are normalized to factor in the varying citation behavior across different fields
- Publications in the 5-year period (2015-2019) and citations in the 6-year period (2015-2020)



Bibliometric parameters for QS

Institutions compiled by QS based on Scopus affiliation profiles Citations per Faculty calculated using Normalized Total Citation Count

Elsevier provide Scopus Custom Data Snapshot of Scopus data from March or April





HOW WE SUPPORT UNIVERSITIES





SciVal Rankings analysis

Robust information and transparency around the bibliometrics used in the THE World University Rankings [other Rankings to follow]



Different use cases

The rankings analyses expand the support SciVal provides users

| | University Leaders | Benchmark and understand the data used in the THE World University Rankings through deep-dive reports and analyses Analyze the trends in the bibliometric drivers to enrich your understanding and inform plans accordingly |
|----------|----------------------------------|---|
| Č. | Research Services | Create management-level reports based on deep-dives into the data used in the THE World University Rankings Create benchmarking reports against peers across Research Output, International Collaboration and Citations Score on THE subject level |
| ~~ | Deans and Heads of Department | Benchmark and understand the data used in the THE World University Rankings through deep-dive reports Use analyses to inform development of faculty and department level strategic plans and publication strategies |
| <u>.</u> | Faculty and Researchers | Benchmark and understand the data used in the THE World University Rankings, related to department, faculty and university strategy Use analyses to inform research and publication strategies |



Examples from SciVal



Use case 1: Analyze the drivers behind the Citations Score 30% of the Overall ranking score

Analyze, understand and generate insights based on the **actual FWCI and Citations Score used in 30% of the THE WUR**, rather than proxies developed in-house

- Analyze changes in Citation Score across years
- Global and Country Normalized FWCI, calculated using the THE dataset are now displayed side by side
- FWCI (5 year) values are provided for each publication year considered in each Ranking year providing insights into why ranking scores may have changed
- Clicking on any FWCI value displays the **5-year trend** per THE subject area



Use case 1: Analyze the drivers behind the Citation Score 30% of the Overall ranking score

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| 10.00 | Additional of the second | 1 (m. | | | | | year - FWCI 5 |



- Global FWCI scores &
- **Country-normalised FWCI** scores

| Subject 3.5 | (Decel) | 2955 | 3114 | 1010 | 2000 | 2410 |
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| Advand Humanitian . | 6.001 | 3.05 | 100 | 344 | 0.21 | 101 |
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| Engraving and Schwalogy | AN: | 3.87 | 100 | 1.26 | 447 | 101 |
| Léw 1 | 1.91 | E.M. | (13) | 2003 | (12) | 144 |
| Life Tritemen | 1136 | 107 | 10.00 | 100 | 125 | 19 |
| Physical Sciences | 4.65 | 440 | 100 | 150 | 100 | 0.00 |
| Partnergy | 10 | 1.00 | 3.85 | 1480 | 128 | 1.01 |
| Balla Samon | 114 | 15 | 100 | (15) | 1141 | 150 |

Use case 2: Benchmark with peers and analyze trends Analyses and information to understand performance and inform plans

Benchmark with peers across all bibliometric drivers and THE subject level for the 2021 and 2022 Rankings without the need to generate proxies and manually curate the bibliometric datasets

- Analyze, benchmark and produce **peer comparison reports** across all bibliometric drivers directly in the Benchmarking module
- Benchmark at the THE subject level for deeper understanding of your university's position and to inform faculty and department level plans
- Analyze the **trends in the bibliometric drivers** to enrich your understanding and inform plans accordingly



Use case 2: Benchmark with peers and analyze trends Analyses and information to understand performance and inform plans

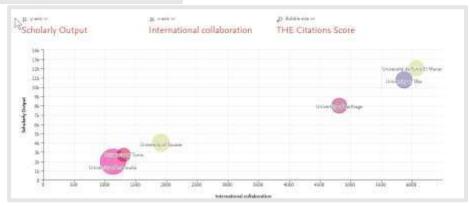
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|------------------------------|------|-----------|------------------|---------------|---------------------------|--------------------------------|--------------------|
| University of Carthage | 2023 | 1201-1500 | 8,903 | 4,811 | 0.87 | 17.3 | 19.0 |
| | | | | | 0.92 | 20.9 | |
| University of Mannuba | 2023 | 1001-1200 | 1,973 | 1,124 | 1,71 | 41.8 | 42.7 |
| | | | | | 1.25 | 61.7 | |
| University of Stav | 2923 | 1201-1500 | 10,783 | 5,870 | 0.97 | 10.0 | -22.6 |
| | | | | | 0.96 | 25.3 | |
| University of Source | 2923 | 1201-1500 | 2/561 | 1,908 | 0.95 | 21.1 | 24.3 |
| | | | | | 0.90 | 27.2 | |
| University of Tunis | 2023 | 1501+ | 2,716 | 1,301 | 0.83 | 13.7 | 14.7 |
| | | | | | 0.86 | 15.7 | |
| Université de Tunis El Manar | 2023 | 1201-1500 | 12,032 | 6.056 | 0.80 | 17.5 | 19.5 |
| | | | | | 0.82 | 21.4 | |

Benchmark with peers across all bibliometric drivers

Heatmap visualizing trends

Benchmark with peers across all bibliometric drivers using chart

Compare on THE subject level



Use case 3: Analyze other bibliometric drivers

Research Productivity (6%) and International Collaboration (2.5%)

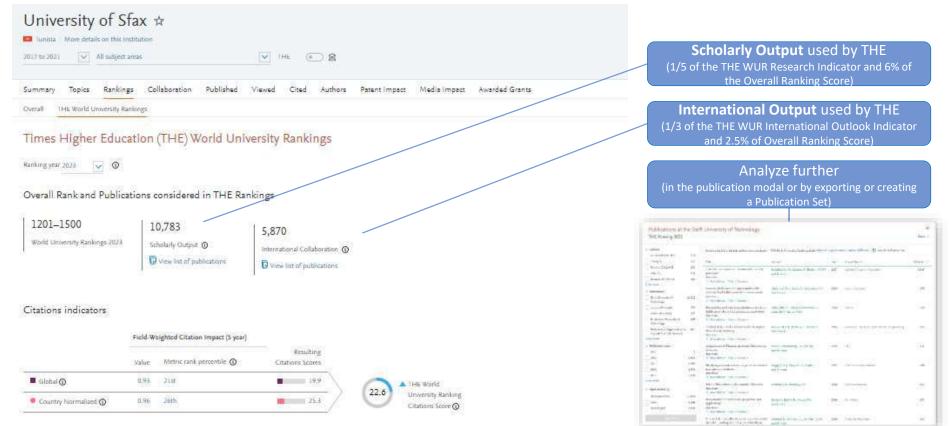
Analyze, understand and generate insights based on the actual Scholarly Outputs and International co-authorship data used in the THE WUR removing the need to export and generate the dataset manually

- View and analyze the publications considered in the THE WUR with a single click
 - No need to export the full Publication Set for the university and filter to only include eligible publication types and sources
- Analyze the publications further by creating a Publication Set to use across SciVal modules



Use case 3: Analyze other bibliometric drivers

Scholarly Output (6%) and International Collaboration (2.5%)





Research Excellence Beyond Rankings



Excellence requires addressing all research ecosystem challenges



Develop and execute your research strategy to inform strategic planning and achieve research goals.



Advance your research programs by identifying best-fit researchers and cross-sector partners



Maximize your funding potential with a holistic view of the funding landscape



Enhance efficiency and productivity by enabling research discovery and boosting workflows



Make decisions with confidence by optimizing the monitoring and administration of research



Expand your reputation for excellence and advance open science

Institutional stakeholders







Strength vs weaknesses (Example: University of Sfax)

 High volume, low impact

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| Engineering | | | | | - | | | | |
| Computer Science | 10 | | | | - | - 1 | | | |
| Mathematics. | | - | | | | - 1 | | | |
| Materials Science | | : | | | - | - 1 | | | |
| Medicine | | | | | - | - 11 | | | |
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| Il invironmental Science | | | the second se | • | - | | | | |
| iochemistry, Genetics and Molecular Biology | | | Martin | | - | - | | | |
| Chemical Engineering | | | - | | - | - | | | |
| Agricultural and Biological Sciences | | | | • • • • • • • • • • • • • • • • • • • | - | - | | | |
| Energy | | | - | | - | - | | | |
| Bissiness, Management and Accounting | | | | | - | _ | | | |
| Economics, Econometrics and Finance | | | - | | - | - | | | |
| Decision Sciences | | | - | | - | - | | | |
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Collaboration (Example: University of Sfax)

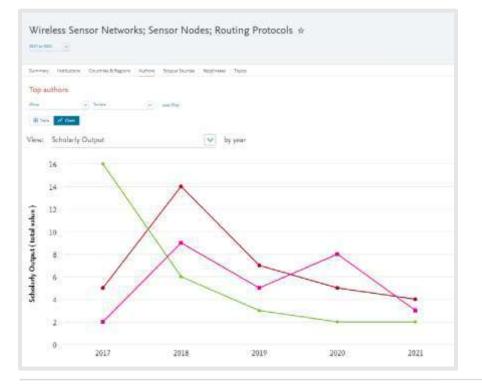


| Institution 1 | Co-authored publications ↓ | Field-Weighted Citation Impact 🗸 |
|--|-------------------------------|-------------------------------------|
| | 1,559 🔻 | 1.03 |
| Centre de Biotechnologie de Sfax | 560 🔻 | 1.09 |
| Université de Tunis El Manar | 560 🔺 | 1.31 |
| University of Gabes | 470 🔺 | 1.00 |
| University of Carthage | 451 💌 | 0.98 |
| University of Monastir | 382 🔺 | 1.29 |
| University of Sousse | 381 🔺 | 0.98 |
| Université Fédérale Toulouse Midi-Pyrénées | 208 🔻 | 1.98 |
| Université Grenoble Alpes | 187 💌 | 0.92 |





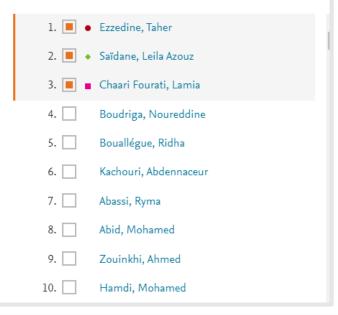
Identify experts



Impact & Engagement

Top 500 authors in this Topic Cluster

by Scholarly Output





Optimise research strengths

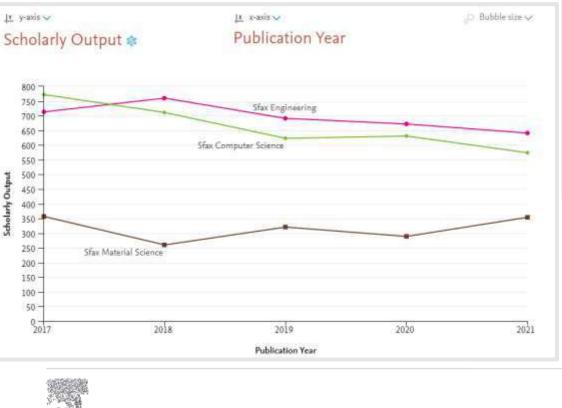




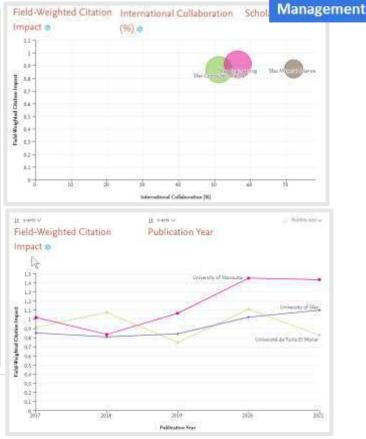




Benchmark and monitor progress



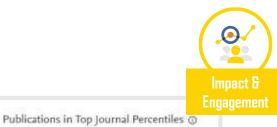
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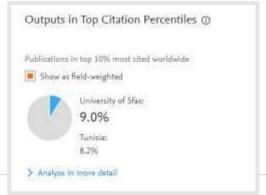
Research

Attention to journal quality











Conclusion

- University rankings provide universities with a unique opportunity to advance their visibility, strategic partnerships and recruitment of international talent.
- To optimise this opportunity it is important to understand the methodologies of prominent Rankings and the role of publication and affiliation information from Scopus.
- Ultimately, however, it is good research that drives good performance in Rankings. To achieve this, an holistic approach is needed covering all the challenges the research performance landscape entails





Thank you

For further discussions You may contact me on <u>a.moneim@elsevier.com</u>

