AD Scientific Index

Rankings for Scientist

More Than a Ranking

Romania's Universities and Research Institutions:

Comprehensive Analysis of 97 Universities and
Institutions and 16,051 Scientists

AD Scientific Index 2025

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Romania's Universities and Research Institutions: Comprehensive Analysis of 97 Universities and Institutions and 16,051 Scientists
World Scientist and University Rankings 2025

(Total 2.626.180 scientist, 221 country, 24.533 university)

1. What is the AD Scientific Index (Alper-Doger Scientific Index)?

Developed in 2021 by **Prof. Dr. Murat Alper** and **Assoc. Prof. Dr. Cihan Döğer**, the AD Scientific Index is an **independent and international ranking system** that provides a multidimensional evaluation of the academic performance of scientists and institutions. Key highlights include:

- **Original academic rankings, detailed analyses, and comparative results**
- A resource guiding **policy development** to enhance scientific contributions and productivity
- Analysis of 2.626.180 **scientists** and 24.533 **institutions** across **13 major academic fields** and **211 disciplines**, covering 221 **countries**
- Data obtained from Google Scholar is used after being subjected to multi-layered data cleansing processes applied both directly and indirectly.
- Evaluation based on **total and last six years' H-index, i10-index, and citation counts. Rankings are updated every few days, offering near real-time accuracy that reflects current academic performance.**

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2. Why is the AD Scientific Index (Alper-Doger Scientific Index) Needed?

 Most **international university rankings** consider parameters like:

- **Research productivity, impact, excellence**
- **Educational quality**
- **Faculty quality**
- **Research output**
- **Per capita performance**

 Many of these rely heavily on **publication and citation counts** as key indicators of academic performance. However, these methods:

- Vary in **data sources** (e.g., SCIE, SSCI, InCites)

- Differ in what types of publications they count (articles, notes, conference papers, etc.)
- May emphasize **high-impact journals** (e.g., *Nature*, *Science*, *PNAS*)
- Often use H-**index**, top 5% journals by impact factor, total citations, and other indicators
- Frequently face **redundancy** (measuring the same aspect multiple times), leading to "indicator alignment"
- Rarely exceed coverage of **1,500–3,000 institutions** or **70–100 countries** due to these limitations

 How AD Scientific Index Addresses These Gaps

- Focuses on **both total and six-year productivity** (H-index, i10-index, citation data)
- Ranks **individual scientists** as well as **academic fields, institutions, and countries**
- **Broad coverage** spanning countries, regions, institutions, disciplines, languages, and publication types
- Ensures **equal opportunities** for comparison with a **fair and transparent** methodology
- **No reliance on non-public or invisible parameters** in ranking formulas.

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3. What are the H-index and i10-index?

- **H-index**: Evaluates both productivity and citation impact. An H-index of h means the researcher has h papers each cited at least h times.
- **i10-index** (calculated by Google Scholar): Counts the number of publications with **at least 10 citations**.

These metrics:

- Offer insight into **consistent academic influence**
- **Higher values** indicate more sustained impact

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4. The Importance of Last 6 Years Metrics

The AD Scientific Index places special emphasis on **Last 6 Years** metrics to reveal **recent academic performance**:

- **Total H-index, i10-index, citation count**: Show long-term academic impact
- **Last 6 Years H-index, i10-index, citations**: Highlight **current contributions** and **relevance** in evolving fields
- Focuses on **impact continuation** over the last six years, not just publication dates
- Ensures **up-to-date perspective** in identifying leading contributors and institutions

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5. How Is the "AD Scientific Index" Different from Other

Rankings?

▢ Multi-Dimensional Analysis

- **Comprehensive Metrics:** Integrates total and last-six-year H-index, i10-index, and citation counts to provide a **broad** and **balanced** picture of academic impact.
- **Layered Comparisons:** Enables evaluations at **global, continental, national,** and **city** levels, as well as **public** and **private** institutions, revealing both **long-term influence** and **current momentum**.

▢ Focus on Individual Scientists

- **Foundation of Institutional Success:** Genuine **breakthroughs** and **reputation** stem from individual scientists.
- **Beyond Broad Factors:** While other rankings often focus on "international reputation" or "teaching quality," the AD Scientific Index homes in on **concrete achievements**, emphasizing the **true** drivers of institutional excellence.

▢ Accessible and Inclusive Data

- **Extensive Coverage:** Utilizes **publicly available** Google Scholar data, carefully screened, to assess researchers across every field, country, and type of institution.

▢ Equal Opportunity

- **Fair Recognition:** Offers **equitable** acknowledgment to all scientists and institutions, **regardless of geographical or institutional background**.
- **Seamless Participation:** The system is **easy to join** on both individual and institutional levels, making academic performance **visible at every tier, in near real time**.

▢ Democratic and Universal Approach

- **Global Level Playing Field:** Reflects how individual accomplishments shape the overall performance of institutions **worldwide**.
- **Commitment to Transparency:** Employs **impartial, reproducible** methods, ensuring **equal** conditions for prominent research universities and smaller colleges alike.

▢ Identifying Misconduct

- **Guardian of Integrity:** Acts as an **early warning system** against plagiarism, unethical authorship (e.g., gift authorship), or excessive publication practices.
- **Institutional and Individual Accountability:** Ensures that **authentic academic contributions** remain in the spotlight by uncovering ethical violations, safeguarding the **credibility** of researchers and institutions.

6. Unique Features of the "AD Scientific Index"

◻ Academic and Economic Independence

- Operates entirely free from external influences, ensuring that evaluations focus **exclusively** on academic merit.
- Maintains **objective** and **transparent** standards without commercial or political pressure.

◻ Transparent and Rigorous Methodology

- Relies on **open-source**, verifiable data combined with **clearly defined** algorithms and weighting.
- Corrects errors within **one week** and strictly **upholds impartiality** to preserve credibility and accuracy.

◻ Comprehensive Evaluation

- Provides **both total and last-six-year metrics** (H-index, i10-index, citations) for universities, institutions, hospitals, and companies.
- Allows stakeholders to assess **long-term trends** alongside **recent performance** at a glance.

◻ Institutional Progress Analysis

- Monitors and analyzes **institutional development** over the last six years, highlighting growth trajectories and performance shifts.

◻ Public vs. Private Comparison

- Offers **direct comparisons** among public universities, as well as with private universities, companies, hospitals, and research institutes.
- Illuminates **sector-wide benchmarks** for a broader context of academic achievement.

◻ Scientific Ranking Distribution

- Examines **academic staff rankings** within each institution, showing percentile-based standings to pinpoint **individual and collective strengths**.

◻ Individual Status Tracking

- Presents **detailed** profiles for researchers (H-index, i10-index, citations), delivering clear insights into each scholar's **impact and influence**.

◻ Global and Regional Rankings

- Encompasses **2.626.180 individuals** from 24.533 **institutions** across 221 **countries** and **10 regions**, covering a wide array of disciplines.
- Enables **branch-** and **sub-discipline-specific** evaluations for targeted insights. **individuals** from **institutions**,

⬜ Top List Reports

- Generates **country-level, regional, and global** top lists, serving as valuable resources for benchmarking and recognition.

⬜ Continuously Refreshed Rankings (Near Real-Time)

- Ensures **continuous** data refresh, with H index, i10 index and citation metrics updated **every 10-20 days** and rankings recalculated **every two days**.
- Offers users an **up-to-date** view of academic performance.

⬜ Valuing Feedback and Contributions

- Incorporates community input to **refine** the methodology and maintain **data accuracy**.
- Facilitates a **collaborative** approach that keeps rankings current and reliable.

⬜ Increased Visibility & Early Detection of Ethical Violations

- Sheds light on unethical practices (e.g., gift authorship, citation cartels, fake paper factories), promoting **academic integrity** through transparency.
- Helps **identify** and **address** potential misconduct **promptly**.

⬜ Art and Humanities Rankings & Social Sciences and Humanities Rankings

- Provides **dedicated rankings** that accurately represent these fields, leveraging Google Scholar's **broad coverage**.
- Ensures these disciplines receive **fair, detailed** visibility alongside STEM areas.

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7. Strengths and Limitations of Bibliometric Databases

- Ranking organizations base their data on their chosen bibliometric databases. Each of these sources has its own strengths and notable limitations — in fact, no data source is entirely comprehensive or flawless. Recognizing these trade-offs is important to justify our use of Google Scholar and to balance the widespread perception that other databases are "completely flawless."
- Some platforms constitute curated citation indexes covering thousands of reputable journals. Thanks to the established metrics they provide (such as citation counts, the h-index, etc.) and their analytical tools, they are regarded by many as the "gold standard" for citation data. These databases, which may cover approximately 9,000 to 15,000 journals, apply various strict inclusion criteria. However, their journal coverage is inherently limited and tends to favor English-language publications and STEM (science, technology, engineering, and mathematics) disciplines. A significant amount of legitimate research in the social sciences, humanities, or in regional/local languages is left out. For example, in some social science fields, databases have been found to cover only 5–20% of publications, leaving the vast majority of studies in these fields unindexed. Moreover, they can also be restrictive and insufficient regarding non-article content: books, book chapters, and conference proceedings — which are critical publication formats in the humanities or computer science — are poorly covered. Even within the natural sciences, some subfields

and important journals are not included, which has drawn criticism regarding selection bias. Another practical limitation is accessibility and inclusiveness — since these are paid subscription services, many smaller or less well-funded institutions (and their scholars) cannot access them. In summary, while these databases are considered relatively more reliable, they are by no means comprehensive in terms of coverage; additionally, persistent problems remain in disambiguating institution names and author names (standardization). Furthermore, even in reputable databases, there are hundreds of articles discussing peer review challenges and publication ethics violations.

- Google Scholar (GS) is free and has a very broad coverage; it indexes virtually any academic-looking content available on the internet — including journal articles, conference papers, theses, books, and reports — across all languages and fields. This inclusivity gives Google Scholar a much broader scope compared to other databases. Studies have shown that Google Scholar captures far more citations in certain areas, particularly in the social sciences and humanities, that other sources tend to miss. In addition, GS covers citations from books and conference proceedings more effectively, offering a more inclusive picture of research impact in fields where such outputs are significant. Another advantage is its continuous and rapid updating, with no cut-off dates as some other databases apply. Thanks to its open access, any researcher or institution (e.g., using tools like Publish or Perish) can track citations, which helps to democratize bibliometric information that would otherwise remain behind paywalls.

- **Limitations:** Most errors in Google Scholar are random, and there is no evidence that they systematically favor a particular author or field; however, personal-level ethical violations (such as excessive self-citations or fabricated papers) can become more visible in this system. By contrast, other databases may have systematic gaps that consistently exclude certain types of research. Thus, when comparing researchers within the same field using GS data — as long as comparisons are made within similar contexts — Google Scholar can serve as a valuable broad indicator of impact. Nevertheless, its citation counts should be interpreted with caution and with awareness of these limitations.

- **Conclusion:** No bibliometric database is perfect or fully comprehensive — each carries strengths and limitations. Being aware of these limitations is critical for a balanced and inclusive data strategy. Our preference for Google Scholar is based on the goal of capturing a broader spectrum of academic output; however, we are also aware of its shortcomings. In practice, we transparently assess the limitations of each data source. While leveraging Google Scholar's broad and inclusive coverage, we seek to mitigate its weaknesses through methods such as identifying unethical practices and applying layered data cleaning, thereby providing significant advantages that promote equity among individuals, institutions, countries, journals, and publishers. The key point is this: **"there is no entirely flawless and comprehensive data source yet available";** bibliometric databases continue to mature with the contributions of the academic community. *Therefore, the best approach is to understand the constraints of each source and to use the data carefully and in appropriate context.*

 Our Approach:

- **Global, practical, inclusive** methodology
- **Robust auditing** to mitigate data source limitations
- **Continuous data cleansing** (nearly 1 million profiles reviewed; many deleted)
- Ongoing quality improvements ensure increasingly accurate and up-to-date rankings, approaching real-time accuracy.

8. How Frequently Are AD Scientific Index Rankings Updated?

- **New entries, deletions, corrections** typically visible within **1–3 days**
- H-index, i10-index, and citation numbers are **updated every 15 days, while the ranking is refreshed every 2 days.**
- Data primarily from **Google Scholar** with a focus on **standardizing names, institutions, and data**
- **User contributions** to enhance data accuracy are always welcome

9. Who Can Be Included in the List and How Does the Inclusion Process Work?

- AD Scientific Index currently includes data on **2.626.180 scientists** from 24.533 **institutions** across 221 **countries**. While these figures represent one of the broadest samples available globally, we would like to emphasize that listing all researchers with a public Google Scholar profile is not our objective, and such profiles are not automatically included in the system.

The primary ways to be included are:

- **Paid Individual or Institutional Registration**: Researchers and institutions who wish to ensure immediate inclusion may do so by registering through the **"Register"** link on our website.

We would like to kindly emphasize that **automatically including all publicly available Google Scholar profiles is not part of our model**, as it would compromise data quality and system sustainability. Maintaining the integrity of the index involves:

- Multi-layered verification of data accuracy

- Continuous updates to citation and index scores

- Ethical checks

- Monitoring of affiliation changes

- Tracking of institutional mergers, closures, and renamings

- Responsible handling of profiles of deceased individuals

Given these demands, we prioritize a **manageable, meaningful, and accessible data structure** over unlimited expansion. Our approach aims to provide **equitable representation** for countries and institutions worldwide within the boundaries of operational feasibility.

Additional reasons a profile may not appear or may be temporarily removed from the index include:

- **Hidden or Deleted Profiles**: If a previously listed profile is hidden or deleted, the associated metrics (e.g., h-index, i10 index, citation count) may be shown as zero or removed. If the profile becomes public again and has not been permanently deleted, previous scores are automatically restored.

- **Ethical Considerations**: In cases involving false authorship, retracted publications, citation manipulation, or fabricated content, profiles may be removed from the system—even if registered—without refund.

- **Voluntary Removal**: We respect researchers' preferences and remove profiles upon request.

As a result, **some researchers from a given institution may appear in the index while others do not**. This outcome reflects the structure and practical boundaries of the system, and **should not be perceived as a reflection of an individual's academic qualifications**.

Researchers and institutions who would like to increase their visibility are encouraged to explore our **individual or institutional registration** options based on their needs.

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10. Is Registration Required to View Your Ranking?

- **Not required** to see your ranking in the AD Scientific Index. You can estimate your approximate ranking by looking at the rankings of individuals with similar scores. **Required** if you wish to be included **with all detailed elements** in the ranking

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11. How AD Scientific Index Ranks Scientists and Institutions?

 Key Indicators

1. **Total H-index scores**
2. **Last 6 years' H-index scores**

3. **Total i10 index scores**
4. **Last 6 years' i10 index scores**
5. **Total number of citations**
6. **Number of citations in the last 6 years**

Ranking Criteria – Overview
Scientist and institution rankings in the AD Scientific Index are calculated based on multiple bibliometric indicators, with **Total H-index** serving as the primary ranking metric in most categories. General, Country, Regional, University, Branch, and Sub-Branch Rankings.

 Total H-index Rankings
Used in: Measures cumulative scientific impact and productivity.
Ranking order:

1. Total H-index

2. Last 6 Years' H-index

3. Total i10 Index

4. Total Citations

 Last 6 Years' H-index Rankings
Measures short-to-mid-term academic performance and sustained impact.
Ranking order:

1. Last 6 Years' H-index

2. Last 6 Years' i10 Index

3. Total H-index

4. Citations in the Last 6 Years

 Total i10 Index Rankings
Measures: Reflects the consistency of influential scholarly output.
Ranking order:

1. Total i10 Index

2. Last 6 Years' i10 Index

3. Total H-index

4. Total Citation Counts

⬤ Last 6 Years' i10 Index Rankings
Measures recent sustained academic productivity and recognition.
Ranking order:

1. Last 6 Years' i10 Index

2. Last 6 Years' H-index

3. Total i10 Index

4. Citations in the Last 6 Years

⬤ Total Citations Rankings
Captures total scientific reach and academic recognition.
Ranking order:

1. Total Citation Counts

2. Citations in the Last 6 Years

3. Total i10 Index

4. Last 6 Years' i10 Index

⬤ Citations in the Last 6 Years Rankings
Indicates present-day influence and citation activity.
Ranking order:

1. Citations in the Last 6 Years

2. Total Citation Counts

3. Last 6 Years' i10 Index

4. Total i10 Index

Institutions are also ranked by these criteria at **national, regional, and global** levels.

⬛ Studies Influencing Ranking Due to High Citation Numbers

- For unusually high citations (e.g., **CERN, ATLAS, ALICE, CMS**), authors are marked with an **asterisk "i"** to indicate this distinction.
- An **alternative list** excludes these studies to ensure balanced rankings.

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12. Why Are Last 6 Years' Ratios Important?

- Reflect **recent productivity and influence**
- Indicate **impact** of **individual performance** and **institutional policies**
- Provide a **clear view** of modern academic contributions

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13. Subject Rankings: Which Subjects are Ranked in the AD Scientific Index?

The Index covers **211 sub-disciplines** across various major fields:

- **Agriculture & Forestry**: 15 subfields
- **Architecture & Design**: 4 subfields
- **Business & Management**: 8 subfields
- **Economics & Econometrics**: 6 subfields
- **Education**: 11 subfields
- **Engineering & Technology**: 26 subfields
- **History, Philosophy, Theology**: 3 subfields
- **Law / Legal Studies**: 12 subfields
- **Medical and Health Sciences**: 80 subfields
- **Natural Sciences**: 6 subfields
- **Social Sciences**: 22 subfields
- **Social Sciences and Humanities**: 50 subfields
- **Art and Humanities**: 6 subfields

This **meticulous categorization** aligns with **university departments**, enabling **precise** analysis of academic impact.

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14. How Universities Are Ranked in the AD Scientific Index?

- Rankings are based on the **distribution** of scientists within **top percentile ranges** (top % 10, %20, %40, %60, % 80, 90% percentiles and total scientists).
- If two institutions have the **same number** of scientists in a range, the **next percentile range** is considered.
- If a tie persists, the institution with the **higher total number of individual scientists** ranks higher.
- Covers 24.533 **institutions** across:
  - **Total H-index**
  - **Last 6 Years H-index**
  - **Total i10 index**
  - **Last 6 Years i10 index**
  - **Total citations**
  - **Last 6 Years citations**

This approach helps institutions **assess strengths**, **identify areas for improvement**, and supports **cross-border transfer** or **graduation equivalency** evaluations.

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15. Young University/Institution Rankings

- Focuses on institutions **established within the last 30 years. The ranking is formed by applying the university ranking only among institutions established within the last 30 years.** Demonstrates **global standing** of these "young" entities. Identifies **strengths and weaknesses** to shape future policies

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16. Social Sciences and Humanities Rankings – The AD Scientific Index Advantage

✔ **Exclusive Ranking for Social Sciences & Humanities** – Covers fields such as **Business & Management, Economics & Econometrics, Education, History, Philosophy, Theology, Law, and Social Sciences**.

✔ **No Overshadowing by STEM Fields** – **Medicine, Engineering, and Natural Sciences are excluded**, ensuring that institutions and scholars in Social Sciences & Humanities receive a **fair and unbiased evaluation**.

✔ **A Balanced and Unique Ranking Approach** – Unlike traditional rankings dominated by STEM disciplines, this ranking **highlights the real academic impact of Social Sciences & Humanities**, ensuring that institutions and researchers in these fields get the visibility they deserve.

✔ **Comprehensive Performance Metrics** – Rankings are conducted at **both institutional and individual levels**, based on **H-index, i10-index, and citation data**, providing a **data-driven and objective assessment of academic excellence**.

✔ **The AD Scientific Index Advantage:** With regularly refreshed data, a transparent methodology, and a strong focus on academic impact, this ranking ensures that achievements in Social Sciences & Humanities are properly recognized.**!**

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17. Art and Humanities Rankings

- Specialized ranking for **History, Philosophy, Theology, Linguistics and Literature, Archaeology, and Arts**
- Ensures **achievements in arts and humanities** are recognized
- Provides **balanced evaluation** free from STEM dominance
- Explorable at **institutional** and **individual** levels (H-index, i10 index, citations)

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18. 360° Real-Time Institutional Analysis

The 360° Real-Time Institutional Analysis module provides institutions with dynamic, evidence-based evaluations of their academic performance. By leveraging up-to-date bibliometric indicators and disciplinary benchmarks, institutions can: identify their position among 24.533 **universities** across city, national, regional, and global scales. Benchmark performance across **13 major academic fields**, comparing against peer institutions with similar profiles. Monitor institutional strengths, weaknesses, and growth trends over time with regularly refreshed datasets (every 15–25 days). Support strategic academic planning by identifying the most suitable scholars for institutional needs using **data-driven talent profiling** (e.g., H-index, i10-index, citation count percentile rankings). This module empowers institutions to develop **evidence-based strategic plans** in areas such as research development, internationalization, faculty recruitment, and funding acquisition.

19. Pricing and Registration Policy

 Free Services

- **No charge** for accessing individual and institutional rankings via the **main category pages**
- **Most comprehensive academic data** (for individuals and institutions) is **freely accessible** on AD Scientific Index

 Premium Services

- **One-time fee** (covering one or three years) for:
  - More **comprehensive analyses**
  - Ability to **input and modify** data on Scientist and Institution pages
  - **Full c**

Table I. Scientists in Romania: Ranking and Analysis

#	Country	Country Region Rank	Country World Rank	Total Institutions	Total Scientist
1	Romania	22	47	97	16051

Table II. All Types of Institutions in Romania: Ranking and Analysis

#	Institution	Country Rank	Region Rank	World Rank	Country	Type of Institution	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
1	University Babes Bolyai	1	436	1074	Romania	Public	1959	3	42	127	252
2	Carol Davila University of Medicine and Pharmacy	2	613	1496	Romania	Public	1857	5	27	43	99
3	Horia Hulubei National Institute of Physics and Nuclear Engineering	3	653	1576	Romania	Institution	1949	12	25	37	57
4	University of Bucharest	4	688	1673	Romania	Public	1864	5	23	36	53
5	University Politehnica of Bucharest	5	735	1793	Romania	Public	1864	5	20	73	159
6	University of Medicine and Pharmacy Iuliu Hatieganu Cluj Napoca	6	838	2042	Romania	Public	1919	4	17	27	79
7	University of Medicine and Pharmacy Victor Babes Timisoara	7	877	2174	Romania	Public	1944	2	15	35	60
8	Politehnica University Timisoara	8	983	2435	Romania	Private	1920	2	12	47	109
9	Dunarea de Jos University Galati	9	1045	2630	Romania	Public	1974	0	11	28	74
10	Alexandru Ioan Cuza University	10	1083	2729	Romania	Public	1860	3	10	43	82
11	Petru Poni Institute of Macromolecular Chemistry	11	1094	2754	Romania	Institution	1999	0	10	33	48
12	Universitatea Tehnica din Cluj-Napoca (North University of Baia Mare)	12	1268	3243	Romania	Public	1948	0	7	45	120
13	Bucharest Academy of Economic Studies	13	1269	3245	Romania	Public	1913	1	7	42	122
14	Transilvania University of Brasov	14	1271	3248	Romania	Public	1948	1	7	37	91

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15	University of Agricultural Sciences and Veterinary Medicine Cluj Napoca	15	1283	3271	Romania	Public	1869	0	7	27	47
16	West University of Timisoara	16	1359	3504	Romania	Public	1962	1	6	27	73
17	University of Medicine and Pharmacy Craiova	17	1361	3509	Romania	Public	1998	2	6	26	65
18	National Institute for R&D of Isotopic and Molecular Technologies Cluj-Napoca	18	1371	3538	Romania	Institution	2010	0	6	22	39
19	Gheorghe Asachi Technical University	19	1482	3902	Romania	Public	1937	1	5	14	32
20	University Stefan Cel Mare of Suceava	20	1606	4252	Romania	Public	1990	0	4	13	23
21	University Valachia Targoviste	21	1630	4342	Romania	Public	1992	0	4	10	18
22	Institute of Space Science	22	1700	4535	Romania	Institution	1992	4	4	6	8
23	University of Craiova	23	1731	4612	Romania	Public	1947	0	3	28	59
24	University of Oradea	24	1734	4618	Romania	Public	1963	0	3	24	57
25	National Institute for Research and Development in Microtechnologies	25	1788	4762	Romania	Institution	1993	0	3	11	34
26	National Institute for Laser Plasma and Radiation Physics	26	1919	5240	Romania	Institution	1977	0	3	3	8
27	University of Medicine, Pharmacy, Sciences and Technology George Emil	27	1945	5326	Romania	Public	1948	1	2	15	43
28	University Aurel Vlaicu Arad	28	2111	5916	Romania	Public	1990	0	2	4	13
29	Sapientia Hungarian University of Transylvania	29	2161	6106	Romania	Private	2001	0	2	3	5
30	Banat University of Agricultural Sciences and Veterinary Medicine	30	2455	7178	Romania	Private	1945	1	1	4	4

#	Institution	Country Rank	Region Rank	World Rank	Country	Type of Institution	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
31	Titu Maiorescu University	31	2490	7313	Romania	Private	1991	0	1	3	5
32	University Lucian Blaga of Sibiu	32	2539	7538	Romania	Public	1976	0	1	2	22
33	University of Bacau	33	2544	7548	Romania	Public	1961	0	1	2	15
34	National Institute for Earth Physics	34	2565	7611	Romania	Institution	1895	0	1	2	9
35	National Institute for Research & Development in Informatics	35	2582	7690	Romania	Institution	1970	0	1	2	6
36	University Ovidius	36	2681	8148	Romania	Public	1961	0	1	1	14
37	Simion Stoilow Institute of Mathematics of the Romanian Academy	37	2694	8207	Romania	Institution	1946	0	1	1	2
38	University of Medicine and Pharmacy Gr T Popa	38	2863	9080	Romania	Public	1879	0	0	22	65
39	University of Agricultural Sciences and Veterinary Medicine Bucharest	39	2998	9544	Romania	Public	1852	0	0	3	10
40	Universitatea Tehnica de Constructii Bucuresti	40	3102	9930	Romania	Institution	1948	0	0	2	9
41	University of Petrosani	41	3109	9941	Romania	Public	1948	0	0	2	11
42	Tiberiu Popoviciu Institute of Numerical Analysis	42	3161	10190	Romania	Institution	1951	0	0	2	2
43	Danubius University Galati	43	3207	10397	Romania	Public	1994	0	0	2	2
44	Universitatea Apollonia din Iasi	44	3221	10456	Romania	Private	1991	0	0	2	5
45	Institute of Solid Mechanics, Romania	45	3281	10780	Romania	Institution	2000	0	0	2	2
46	Ion Ionescu de la Brad Iasi University of Life Sciences	46	3292	10804	Romania	Public	1948	0	0	1	4
47	1 December 1918 University	47	3299	10831	Romania	Public	1991	0	0	1	3
48	Military Technical Academy, Bucharest	48	3328	10959	Romania	Public	1949	0	0	1	4

#	Institution	Country Rank	Region Rank	World Rank	Country	Type of Institution	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
49	Emil Racovita Institute of Speleology	49	3353	11083	Romania	Institution	1948	0	0	1	3
50	Spiru Haret University	50	3390	11270	Romania	Private	1991	0	0	1	2
51	Astronomical Institute of the Romanian Academy	51	3439	11500	Romania	Institution	1990	0	0	1	2
52	Vasile Pârvan Institute of Archaeology, Romanian Academy	52	3500	11807	Romania	Institution	1920	0	0	1	2
53	National Institute for Chemical Pharmaceutical Research Institute	53	3663	12636	Romania	Institution	2008	0	0	1	2
54	Ioan Slavici University	54	3721	12990	Romania	Private	2001	0	0	1	1
55	Institute of National Economy	55	3741	13115	Romania	Institution	1906	0	0	1	1
56	Ponderas Academic Hospital	56	3786	13259	Romania	Hospital	1998	0	0	1	1
57	Petroleum-Gas University of Ploiesti	57	3806	13322	Romania	Public	1948	0	0	0	6
58	Constantin Brancusi University of Targu-Jiu	58	3861	13510	Romania	Public	1990	0	0	0	1
59	Romanian American University	59	3871	13567	Romania	Public	1991	0	0	0	4
60	Bitdefender	60	3992	14287	Romania	Company	2001	0	0	0	1
61	Universitatea Maritima Constanta	61	4015	14427	Romania	Public	1990	0	0	0	0
62	National Institute for Aerospace Research Elie Carafoli	62	4022	14487	Romania	Institution	1991	0	0	0	1
63	Universitatea Hyperion	63	4031	14560	Romania	Private	1990	0	0	0	2
64	National University of Physical Education and Sports	64	4070	14738	Romania	Private	1922	0	0	0	1
65	Institute of Sociology, Romanian Academy	65	4081	14851	Romania	Institution	1948	0	0	0	2
66	Nicolae Titulescu University	66	4139	15140	Romania	Private	1990	0	0	0	0

#	Institution	Country Rank	Region Rank	World Rank	Country	Type of Institution	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
67	Institutul National de Cercetari Economice	67	4170	15404	Romania	Private	2018	0	0	0	1
68	Alexandru Ioan Cuza Police Academy	68	4195	15626	Romania	Public	1965	0	0	0	0
69	Institute of Archaeology, Romanian Academy, Iași	69	4214	15754	Romania	Institution	1990	0	0	0	1
70	National University of Arts Bucharest	70	4240	15926	Romania	Public	1864	0	0	0	1
71	Ion Mincu University of Architecture and Urbanism Bucharest	71	4343	16446	Romania	Public	1952	0	0	0	0
72	Emanuel University of Oradea	72	4368	16664	Romania	Private	1990	0	0	0	0
73	Artifex University	73	4385	16810	Romania	Public	1992	0	0	0	1
74	Nicolae Iorga Institute of History, Romanian Academy	74	4430	17235	Romania	Institution	1965	0	0	0	0
75	Universitatea Adventus	75	4435	17250	Romania	Public	1924	0	0	0	0
76	National Bank of Romania	76	4447	17307	Romania	Company	1880	0	0	0	1
77	Tibiscus University Timisoara	77	4456	17434	Romania	Private	1991	0	0	0	0
78	Bogdan Voda University of Cluj-Napoca	78	4472	17590	Romania	Private	1992	0	0	0	0
79	Universitatea Athenaeum	79	4497	17732	Romania	Private	1990	0	0	0	0
80	Institute for Fluvial and Marine Systems	80	4697	18881	Romania	Institution	2015	0	0	0	0
81	Partium Christian University	81	4759	19169	Romania	Private	1990	0	0	0	0
82	Romanian Space Agency	82	4762	19252	Romania	Institution	1991	0	0	0	0
83	Universitatea Ecologica Bucuresti	83	4810	19939	Romania	Private	1990	0	0	0	0
84	University Dimitrie Cantemir Targu Mures	84	4877	20788	Romania	Private	1991	0	0	0	0

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#	Institution	Country Rank	Region Rank	World Rank	Country	Type of Institution	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
85	National Defence University of Romania Carol I	85	4878	20796	Romania	Public	1889	0	0	0	0
86	Academy of Agricultural and Forestry Sciences	86	4977	21607	Romania	Institution	1958	0	0	0	0
87	University of Art and Design Cluj-Napoca	87	5059	22116	Romania	Public	1926	0	0	0	0
88	Agora University of Oradea	88	5063	22163	Romania	Private	2000	0	0	0	0
89	Protestant Theological Institute in Cluj-Napoca	89	5068	22306	Romania	Institution	1948	0	0	0	0
90	Universitatea Andrei Saguna	90	5087	22533	Romania	Private	1992	0	0	0	0
91	National Institute of Statistics Romania	91	5089	22554	Romania	Institution	1859	0	0	0	0
92	Universitatea Petre Andrei	92	5105	22865	Romania	Private	1990	0	0	0	0
93	Universitatea Bioterra	93	5112	22982	Romania	Private	1990	0	0	0	0
94	George Baritiu Institute of History, Romanian Academy	94	5131	23141	Romania	Institution	2015	0	0	0	0
95	Institutul Teologic Penticostal - București	95	5171	23512	Romania	Institution	1976	0	0	0	0
96	Institute of Art History, Romanian Academy	96	5197	23786	Romania	Institution	1866	0	0	0	0
97	Romanian-German University of Sibiu	97	5221	24144	Romania	Private	1998	0	0	0	0

Table III. Universities in Romania: Comprehensive Ranking and Analysis

#	University	Country Rank	Region Rank	World Rank	Country	Type of Institution	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
1	University Babes Bolyai	1	357	892	Romania	Public	1959	3	42	127	252
2	Carol Davila University of Medicine and Pharmacy	2	464	1171	Romania	Public	1857	5	27	43	99
3	University of Bucharest	3	504	1280	Romania	Public	1864	5	23	36	53
4	University Politehnica of Bucharest	4	525	1356	Romania	Public	1864	5	20	73	159
5	University of Medicine and Pharmacy Iuliu Hatieganu Cluj Napoca	5	574	1511	Romania	Public	1919	4	17	27	79
6	University of Medicine and Pharmacy Victor Babes Timisoara	6	597	1603	Romania	Public	1944	2	15	35	60
7	Politehnica University Timisoara	7	643	1748	Romania	Private	1920	2	12	47	109
8	Dunarea de Jos University Galati	8	676	1875	Romania	Public	1974	0	11	28	74
9	Alexandru Ioan Cuza University	9	686	1926	Romania	Public	1860	3	10	43	82
10	Universitatea Tehnica din Cluj-Napoca (North University of Baia Mare)	10	759	2223	Romania	Public	1948	0	7	45	120
11	Bucharest Academy of Economic Studies	11	760	2225	Romania	Public	1913	1	7	42	122
12	Transilvania University of Brasov	12	762	2228	Romania	Public	1948	1	7	37	91
13	University of Agricultural Sciences and Veterinary Medicine Cluj Napoca	13	773	2248	Romania	Public	1869	0	7	27	47
14	West University of Timisoara	14	808	2391	Romania	Public	1962	1	6	27	73

#	University	Country Rank	Region Rank	World Rank	Country	Type of Institution	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
15	University of Medicine and Pharmacy Craiova	15	810	2395	Romania	Public	1998	2	6	26	65
16	Gheorghe Asachi Technical University	16	874	2647	Romania	Public	1937	1	5	14	32
17	University Stefan Cel Mare of Suceava	17	936	2875	Romania	Public	1990	0	4	13	23
18	University Valachia Targoviste	18	949	2935	Romania	Public	1992	0	4	10	18
19	University of Craiova	19	979	3055	Romania	Public	1947	0	3	28	59
20	University of Oradea	20	982	3061	Romania	Public	1963	0	3	24	57
21	University of Medicine, Pharmacy, Sciences and Technology George Emil	21	1088	3537	Romania	Public	1948	1	2	15	43
22	University Aurel Vlaicu Arad	22	1184	3964	Romania	Public	1990	0	2	4	13
23	Sapientia Hungarian University of Transylvania	23	1211	4103	Romania	Private	2001	0	2	3	5
24	Banat University of Agricultural Sciences and Veterinary Medicine	24	1372	4869	Romania	Private	1945	1	1	4	4
25	Titu Maiorescu University	25	1398	4984	Romania	Private	1991	0	1	3	5
26	University Lucian Blaga of Sibiu	26	1421	5123	Romania	Public	1976	0	1	2	22
27	University of Bacau	27	1425	5132	Romania	Public	1961	0	1	2	15
28	University Ovidius	28	1486	5531	Romania	Public	1961	0	1	1	14
29	University of Medicine and Pharmacy Gr T Popa	29	1570	6177	Romania	Public	1879	0	0	22	65
30	University of Agricultural Sciences and Veterinary Medicine Bucharest	30	1664	6550	Romania	Public	1852	0	0	3	10
31	University of Petrosani	31	1735	6848	Romania	Public	1948	0	0	2	11
32	Danubius University Galati	32	1805	7233	Romania	Public	1994	0	0	2	2

#	University	Country Rank	Region Rank	World Rank	Country	Type of Institution	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
33	Universitatea Apollonia din Iasi	33	1814	7282	Romania	Private	1991	0	0	2	5
34	Ion Ionescu de la Brad Iasi University of Life Sciences	34	1837	7501	Romania	Public	1948	0	0	1	4
35	1 December 1918 University	35	1842	7522	Romania	Public	1991	0	0	1	3
36	Military Technical Academy, Bucharest	36	1869	7638	Romania	Public	1949	0	0	1	4
37	Spiru Haret University	37	1911	7905	Romania	Private	1991	0	0	1	2
38	Ioan Slavici University	38	2098	9253	Romania	Private	2001	0	0	1	1
39	Petroleum-Gas University of Ploiesti	39	2125	9444	Romania	Public	1948	0	0	0	6
40	Constantin Brancusi University of Targu-Jiu	40	2166	9608	Romania	Public	1990	0	0	0	1
41	Romanian American University	41	2174	9656	Romania	Public	1991	0	0	0	4
42	Universitatea Maritima Constanta	42	2272	10385	Romania	Public	1990	0	0	0	0
43	Universitatea Hyperion	43	2283	10510	Romania	Private	1990	0	0	0	2
44	National University of Physical Education and Sports	44	2311	10669	Romania	Private	1922	0	0	0	1
45	Nicolae Titulescu University	45	2352	10985	Romania	Private	1990	0	0	0	0
46	Institutul National de Cercetari Economice	46	2376	11230	Romania	Private	2018	0	0	0	1
47	Alexandru Ioan Cuza Police Academy	47	2395	11426	Romania	Public	1965	0	0	0	0
48	National University of Arts Bucharest	48	2424	11686	Romania	Public	1864	0	0	0	1
49	Ion Mincu University of Architecture and Urbanism Bucharest	49	2477	12078	Romania	Public	1952	0	0	0	0
50	Emanuel University of Oradea	50	2497	12286	Romania	Private	1990	0	0	0	0
51	Artifex University	51	2507	12419	Romania	Public	1992	0	0	0	1

#	University	Country Rank	Region Rank	World Rank	Country	Type of Institution	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
52	Universitatea Adventus	52	2543	12807	Romania	Public	1924	0	0	0	0
53	Tibiscus University Timisoara	53	2559	12979	Romania	Private	1991	0	0	0	0
54	Bogdan Voda University of Cluj-Napoca	54	2571	13123	Romania	Private	1992	0	0	0	0
55	Universitatea Athenaeum	55	2586	13240	Romania	Private	1990	0	0	0	0
56	Partium Christian University	56	2695	14188	Romania	Private	1990	0	0	0	0
57	Universitatea Ecologica Bucuresti	57	2723	14909	Romania	Private	1990	0	0	0	0
58	University Dimitrie Cantemir Targu Mures	58	2760	15664	Romania	Private	1991	0	0	0	0
59	National Defence University of Romania Carol I	59	2761	15672	Romania	Public	1889	0	0	0	0
60	University of Art and Design Cluj-Napoca	60	2813	16665	Romania	Public	1926	0	0	0	0
61	Agora University of Oradea	61	2816	16708	Romania	Private	2000	0	0	0	0
62	Universitatea Andrei Saguna	62	2828	17035	Romania	Private	1992	0	0	0	0
63	Universitatea Petre Andrei	63	2839	17332	Romania	Private	1990	0	0	0	0
64	Universitatea Bioterra	64	2842	17438	Romania	Private	1990	0	0	0	0
65	Romanian-German University of Sibiu	65	2888	18342	Romania	Private	1998	0	0	0	0

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Table IV. Public Universities in Romania: Ranking and Analysis

#	University	Country Rank	Region Rank	World Rank	Country	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
1	University Babes Bolyai	1	344	782	Romania	1959	3	42	127	252
2	Carol Davila University of Medicine and Pharmacy	2	443	1023	Romania	1857	5	27	43	99
3	University of Bucharest	3	479	1113	Romania	1864	5	23	36	53
4	University Politehnica of Bucharest	4	499	1176	Romania	1864	5	20	73	159
5	University of Medicine and Pharmacy Iuliu Hatieganu Cluj Napoca	5	540	1298	Romania	1919	4	17	27	79
6	University of Medicine and Pharmacy Victor Babes Timisoara	6	558	1372	Romania	1944	2	15	35	60
7	Dunarea de Jos University Galati	7	621	1580	Romania	1974	0	11	28	74
8	Alexandru Ioan Cuza University	8	630	1621	Romania	1860	3	10	43	82
9	Universitatea Tehnica din Cluj-Napoca (North University of Baia Mare)	9	692	1842	Romania	1948	0	7	45	120
10	Bucharest Academy of Economic Studies	10	693	1844	Romania	1913	1	7	42	122
11	Transilvania University of Brasov	11	695	1847	Romania	1948	1	7	37	91
12	University of Agricultural Sciences and Veterinary Medicine Cluj Napoca	12	704	1863	Romania	1869	0	7	27	47
13	West University of Timisoara	13	733	1970	Romania	1962	1	6	27	73
14	University of Medicine and Pharmacy Craiova	14	735	1974	Romania	1998	2	6	26	65
15	Gheorghe Asachi Technical University	15	786	2147	Romania	1937	1	5	14	32
16	University Stefan Cel Mare of Suceava	16	833	2310	Romania	1990	0	4	13	23
17	University Valachia Targoviste	17	842	2355	Romania	1992	0	4	10	18
18	University of Craiova	18	866	2430	Romania	1947	0	3	28	59
19	University of Oradea	19	869	2435	Romania	1963	0	3	24	57

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#	University	Country Rank	Region Rank	World Rank	Country	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
20	University of Medicine, Pharmacy, Sciences and Technology George Emil	20	951	2739	Romania	1948	1	2	15	43
21	University Aurel Vlaicu Arad	21	1028	3018	Romania	1990	0	2	4	13
22	University Lucian Blaga of Sibiu	22	1204	3686	Romania	1976	0	1	2	22
23	University of Bacau	23	1207	3691	Romania	1961	0	1	2	15
24	University Ovidius	24	1255	3904	Romania	1961	0	1	1	14
25	University of Medicine and Pharmacy Gr T Popa	25	1310	4188	Romania	1879	0	0	22	65
26	University of Agricultural Sciences and Veterinary Medicine Bucharest	26	1386	4436	Romania	1852	0	0	3	10
27	University of Petrosani	27	1434	4605	Romania	1948	0	0	2	11
28	Danubius University Galati	28	1485	4806	Romania	1994	0	0	2	2
29	Ion Ionescu de la Brad Iasi University of Life Sciences	29	1506	4938	Romania	1948	0	0	1	4
30	1 December 1918 University	30	1511	4954	Romania	1991	0	0	1	3
31	Military Technical Academy, Bucharest	31	1532	5028	Romania	1949	0	0	1	4
32	Petroleum-Gas University of Ploiesti	32	1699	5917	Romania	1948	0	0	0	6
33	Constantin Brancusi University of Targu-Jiu	33	1733	6016	Romania	1990	0	0	0	1
34	Romanian American University	34	1739	6049	Romania	1991	0	0	0	4
35	Universitatea Maritima Constanta	35	1807	6416	Romania	1990	0	0	0	0
36	Alexandru Ioan Cuza Police Academy	36	1871	6891	Romania	1965	0	0	0	0
37	National University of Arts Bucharest	37	1890	7024	Romania	1864	0	0	0	1
38	Ion Mincu University of Architecture and Urbanism Bucharest	38	1921	7212	Romania	1952	0	0	0	0
39	Artifex University	39	1939	7354	Romania	1992	0	0	0	1
40	Universitatea Adventus	40	1963	7543	Romania	1924	0	0	0	0
41	National Defence University of Romania Carol I	41	2093	8801	Romania	1889	0	0	0	0

#	University	Country Rank	Region Rank	World Rank	Country	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
42	University of Art and Design Cluj-Napoca	42	2124	9309	Romania	1926	0	0	0	0

Table V. Private Universities in Romania: Ranking and Analysis

#	University	Country Rank	Region Rank	World Rank	Country	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
1	Politehnica University Timisoara	1	47	265	Romania	1920	2	12	47	109
2	Sapientia Hungarian University of Transylvania	2	166	1004	Romania	2001	0	2	3	5
3	Banat University of Agricultural Sciences and Veterinary Medicine	3	202	1329	Romania	1945	1	1	4	4
4	Titu Maiorescu University	4	210	1370	Romania	1991	0	1	3	5
5	Universitatea Apollonia din Iasi	5	324	2455	Romania	1991	0	0	2	5
6	Spiru Haret University	6	346	2733	Romania	1991	0	0	1	2
7	Ioan Slavici University	7	417	3435	Romania	2001	0	0	1	1
8	Universitatea Hyperion	8	470	4030	Romania	1990	0	0	0	2
9	National University of Physical Education and Sports	9	486	4125	Romania	1922	0	0	0	1
10	Nicolae Titulescu University	10	504	4284	Romania	1990	0	0	0	0
11	Institutul National de Cercetari Economice	11	514	4425	Romania	2018	0	0	0	1
12	Emanuel University of Oradea	12	563	4987	Romania	1990	0	0	0	0
13	Tibiscus University Timisoara	13	587	5356	Romania	1991	0	0	0	0
14	Bogdan Voda University of Cluj-Napoca	14	595	5439	Romania	1992	0	0	0	0
15	Universitatea Athenaeum	15	603	5499	Romania	1990	0	0	0	0
16	Partium Christian University	16	646	6009	Romania	1990	0	0	0	0
17	Universitatea Ecologica Bucuresti	17	658	6464	Romania	1990	0	0	0	0
18	University Dimitrie Cantemir Targu Mures	18	668	6866	Romania	1991	0	0	0	0
19	Agora University of Oradea	19	690	7379	Romania	2000	0	0	0	0
20	Universitatea Andrei Saguna	20	699	7555	Romania	1992	0	0	0	0
21	Universitatea Petre Andrei	21	705	7715	Romania	1990	0	0	0	0
22	Universitatea Bioterra	22	707	7767	Romania	1990	0	0	0	0

#	University	Country Rank	Region Rank	World Rank	Country	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
23	Romanian-German University of Sibiu	23	730	8205	Romania	1998	0	0	0	0

Table VI. Young Universities in Romania: Ranking and Analysis

#	University	Country Rank	Region Rank	World Rank	Country	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
1	University of Medicine and Pharmacy Craiova	15	810	2395	Romania	1998	2	6	26	65
2	Sapientia Hungarian University of Transylvania	23	1211	4103	Romania	2001	0	2	3	5
3	Ioan Slavici University	38	2098	9253	Romania	2001	0	0	1	1
4	Institutul National de Cercetari Economice	46	2376	11230	Romania	2018	0	0	0	1
5	Agora University of Oradea	61	2816	16708	Romania	2000	0	0	0	0
6	Romanian-German University of Sibiu	65	2888	18342	Romania	1998	0	0	0	0

Table VII. Institutions in Romania: Ranking and Analysis

#	Institution	Country Rank	Region Rank	World Rank	Country	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
1	Horia Hulubei National Institute of Physics and Nuclear Engineering	1	153	290	Romania	1949	12	25	37	57
2	Petru Poni Institute of Macromolecular Chemistry	2	363	673	Romania	1999	0	10	33	48
3	National Institute for R&D of Isotopic and Molecular Technologies Cluj-Napoca	3	495	918	Romania	2010	0	6	22	39
4	Institute of Space Science	4	644	1213	Romania	1992	4	4	6	8
5	National Institute for Research and Development in Microtechnologies	5	670	1275	Romania	1993	0	3	11	34
6	National Institute for Laser Plasma and Radiation Physics	6	725	1390	Romania	1977	0	3	3	8
7	National Institute for Earth Physics	7	929	1837	Romania	1895	0	1	2	9
8	National Institute for Research & Development in Informatics	8	934	1848	Romania	1970	0	1	2	6
9	Simion Stoilow Institute of Mathematics of the Romanian Academy	9	973	1940	Romania	1946	0	1	1	2
10	Universitatea Tehnica de Constructii Bucuresti	10	1066	2169	Romania	1948	0	0	2	9
11	Tiberiu Popoviciu Institute of Numerical Analysis	11	1074	2191	Romania	1951	0	0	2	2
12	Institute of Solid Mechanics, Romania	12	1106	2275	Romania	2000	0	0	2	2
13	Emil Racovita Institute of Speleology	13	1119	2303	Romania	1948	0	0	1	3
14	Astronomical Institute of the Romanian Academy	14	1132	2335	Romania	1990	0	0	1	2
15	Vasile Pârvan Institute of Archaeology, Romanian Academy	15	1145	2372	Romania	1920	0	0	1	2
16	National Institute for Chemical Pharmaceutical Research Institute	16	1176	2460	Romania	2008	0	0	1	2

#	Institution	Country Rank	Region Rank	World Rank	Country	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
17	Institute of National Economy	17	1198	2517	Romania	1906	0	0	1	1
18	National Institute for Aerospace Research Elie Carafoli	18	1260	2665	Romania	1991	0	0	0	1
19	Institute of Sociology, Romanian Academy	19	1269	2683	Romania	1948	0	0	0	2
20	Institute of Archaeology, Romanian Academy, Iași	20	1296	2755	Romania	1990	0	0	0	1
21	Nicolae Iorga Institute of History, Romanian Academy	21	1338	2868	Romania	1965	0	0	0	0
22	Institute for Fluvial and Marine Systems	22	1391	3030	Romania	2015	0	0	0	0
23	Romanian Space Agency	23	1412	3094	Romania	1991	0	0	0	0
24	Academy of Agricultural and Forestry Sciences	24	1453	3219	Romania	1958	0	0	0	0
25	Protestant Theological Institute in Cluj-Napoca	25	1478	3284	Romania	1948	0	0	0	0
26	National Institute of Statistics Romania	26	1481	3307	Romania	1859	0	0	0	0
27	George Baritiu Institute of History, Romanian Academy	27	1490	3349	Romania	2015	0	0	0	0
28	Institutul Teologic Penticostal - București	28	1508	3398	Romania	1976	0	0	0	0
29	Institute of Art History, Romanian Academy	29	1514	3410	Romania	1866	0	0	0	0

Table VIII. Companies in Romania: Ranking and Analysis

#	Company	Country Rank	Region Rank	World Rank	Country	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
1	Bitdefender	1	384	1121	Romania	2001	0	0	0	1
2	National Bank of Romania	2	455	1320	Romania	1880	0	0	0	1

Table IX. Hospitals in Romania: Ranking and Analysis

#	Hospital	Country Rank	Region Rank	World Rank	Country	Founded	Scientists in World Top 3%	Scientists in World Top 10%	Scientists in World Top 20%	Scientists in World Top 30%
1	Ponderas Academic Hospital	1	85	219	Romania	1998	0	0	1	1