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
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(Total 2.626.747 scientist, 221 country, 24.546 university)

1. What is the AD Scientific Index?

Founded in 2021 by Prof. Dr. Murat Alper and Assoc. Prof. Dr. Cihan Döğer, the **AD Scientific Index (Alper-Döğer Scientific Index)** is not only a comprehensive ranking system, but also a decision-support platform that evaluates academic performance at both individual and institutional levels using multidimensional, transparent, and verifiable data.

Based on the principles of inclusivity, fairness, equal opportunity, and accountability, this system analyzes **2.626.747 scientists** and **24.546 institutions** from **221 countries** across 13 main fields and 211 disciplines. The evaluations are based on data obtained from publicly accessible **Google Scholar** profiles and processed through **multi-layered data cleansing procedures**. Each profile is analyzed in terms of **H-index**, **i10-index**, and **citation counts**, considering both **career-total** performance and the **last five years**. In this way, the past achievements and current research momentum of scientists are measured together. This approach transcends the limitations of relying on a single parameter by simultaneously assessing scientists' historical contributions and present productivity through multiple indicators, thereby providing a comprehensive and realistic portrayal of academic impact.

In alignment with research evaluation reforms such as DORA and the Leiden Manifesto, the AD Scientific Index goes beyond traditional closed, reputation-based ranking systems. Instead, it offers a researcher-centered, field-sensitive, transparent, and data-driven evaluation model. For institutions, it provides strategic planning support through tools such as the **SMART Institutional Excellence Plan**, which delivers real-time and field-based performance analyses. This approach directly supports our 2026 strategic goal of expanding field-based analytics, enhancing institutional benchmarking, and introducing new global ranking categories for greater academic impact.

2. Fair, Focused, and Field-Based: The AD Scientific Index Approach

Most international university rankings assess research productivity, impact, educational quality, faculty strength, and per-capita performance. However, these methods often:

- Differ in data sources (SCIE, SSCI, InCites, etc.).
- Vary in publication types counted (articles, notes, conference papers, etc.).
- Emphasize select high-impact journals (Nature, Science, PNAS, etc.).
- Reuse the same indicators multiple times, creating “indicator alignment” bias.
- Cover only 1,500–3,000 institutions and 70–100 countries.

How the AD Scientific Index Differs:

- Measures both career-total and last 5 years’ performance (H-index, i10-index, citations) to capture legacy and current momentum.
- Ranks individual scientists, academic fields, institutions, and countries using a transparent, data-driven approach.
- Offers broad coverage by country, region, institution, discipline, language, and publication type.
- Uses no non-public or hidden parameters in ranking formulas.

3. Alignment with Research Assessment Reform

Global initiatives such as DORA, the Leiden Manifesto, and ARRA call for transparent, fair, and context-aware evaluation, moving beyond prestige-based, closed systems.

Core Principles Applied by AD Scientific Index:

- 100% verifiable, researcher-level data; no surveys or impact factors.
- Field-sensitive evaluation to ensure fair cross-disciplinary comparisons.
- No composite scores or hidden weightings — rankings are built from measurable performance data.

- Inclusive coverage of **24.546** institutions in **221** countries.
- Ethical safeguards against citation cartels, excessive self-citation, and honorary authorship.
- Reliable data maintained via 20–25 day update cycles and transparent corrections.

4. What Are the H-index, i10-index, and Citation Count?

H-index: The H-index is defined as the largest number *h* such that *h* publications have each received at least *h* citations. This metric reflects both the researcher's productivity and the sustained impact of their scientific work. **The 'recent' version of the H-index** considers publications that received at least *h* new citations in the last 5 years.
i10-index: The i10-index counts the number of publications with at least 10 citations. It highlights the number of works that have reached a moderate level of academic impact and reflects the breadth of a researcher's scholarly contributions. **The 'recent' version of the i10-index** refers to the number of publications that have received at least 10 new citations in the last 5 years.
Citation Count: This metric represents the total number of citations received by all of a researcher's publications. It provides an overall view of the visibility and cumulative influence of their scientific output. **The 'recent' version of citation count** refers to the number of new citations in the last 5 years to all publications.

The Significance of These Metrics for Academic Performance
These metrics provide a multidimensional evaluation of academic success:

- The **H-index** demonstrates effective and sustained scholarly performance.
- The **i10-index** measures the number of works that have surpassed a certain citation threshold, indicating the breadth of academic impact.
- The **total citation count** reflects the extent to which a researcher's work is followed, referenced, and utilized in the scientific community.

Higher values in these metrics typically indicate a stronger, broader, and more enduring academic influence. These metrics are based on data obtained from publicly available **Google Scholar** profiles. Google Scholar enables meaningful and comparable analyses across disciplines and countries, thanks to its broad coverage and open access model.

5. Balancing Legacy and Momentum: The Dual-Timeframe Model

The AD Scientific Index balances academic legacy with current research momentum by

measuring H-index, i10-index, and citation counts for both career-total and the last 5 years, producing six distinct data points per scientist.

This approach ensures:

- Long-term contributions and recent productivity are equally visible.
- Rising researchers are highlighted while declining activity is identifiable.
- Institutions building current momentum are distinguished from those relying solely on past reputations.

(For the institutional-level application of this model, see Section 6.3.)

6. Distinctive Advantages and Unique Features

- The AD Scientific Index is a transparent, researcher-centered, and field-sensitive alternative to traditional global rankings. It relies entirely on six publicly verifiable indicators (H-index, i10-index, citations — total and last 5 years) without hidden weightings or reputation surveys.

  Key Strengths:

  - Dual-timeframe model — captures both past achievements and current momentum.
  - Researcher-to-institution ranking — institutional success reflects actual member performance.
  - Global inclusivity — covers 221 countries, 24,538 institutions, 13 main fields, and 211 sub-disciplines.
  - Real-time relevance — data updated every ~20 days, rankings refreshed every 2–3 days.
  - Ethical oversight — triple safeguard via AI detection, community reporting, and manual auditing.
  - Disciplinary fairness — equal visibility for STEM and non-STEM fields.

6.1 Transparency, Simplicity, and Real-Time Accuracy

Impact: Ensures that all evaluation processes are clear, verifiable, and up-to-date.

- Public formulas and data sources enable independent verification.
- Near real-time updates: profiles updated ~every 20 days, rankings refreshed every 2 days.
- Rigorous data integrity maintained via cleaning processes, AI-assisted anomaly detection, and community feedback.

6.2 Researcher-First, Bottom-Up Institutional Rankings

Impact: Links institutional rankings directly to the achievements of their members.

- Rankings start from individual evaluations, then aggregate to the institutional level via percentile distribution.
- Avoids abstract prestige metrics disconnected from actual output.

6.3 Dual-Timeframe Evaluation: Balancing Legacy and Momentum

Impact: Enables fair comparisons across career stages and disciplines.

- Measures all metrics for both career-total and last 5 years.
- Highlights active excellence, differentiating sustained productivity from reliance on historical reputation.

6.4 Inclusive and Field-Sensitive Coverage

Impact: Guarantees equitable representation across all scientific fields.

- Covers underrepresented disciplines such as Social Sciences, Arts, and Humanities.

- Includes diverse outputs across all languages.
- Allows analysis at global, continental, national, city, and sector levels.

6.5 Comprehensive Institutional and Individual Analytics

Impact: Provides actionable insights for strategic development.

- Percentile-based performance distribution.
- 5-year trend tracking.
- Benchmarking tools for recognition and planning.

6.6 Commitment to Academic Integrity

Impact: Maintains the credibility of scholarly work through active monitoring, clear enforcement policies, and collaborative accountability.

- **Detection:** AI, manual review, and community reporting work together to identify unethical practices such as false authorship, citation manipulation, fabricated content, and other misconduct.
- **Removal Due to Ethical Issues:** Profiles involved in false authorship, retracted publications, citation cartels, excessive self-citation, or fabricated content may be removed without refund — even for premium members.
- **Transparency Violations:** Individuals who repeatedly hide or delete their Google Scholar profiles to obstruct data transparency may be disqualified from evaluation or removed.
- **Warnings and Corrections:** In appropriate cases, profile owners may first be given the opportunity to correct issues; serious or unresolved violations result in immediate removal.
- **Permanent Exclusion:** Repeat or severe violations lead to a lifetime ban from inclusion in the Index.

- **Community and Institutional Accountability:** Reports from the academic community, institutions, and subject-specific associations are reviewed to detect potential misconduct, ensuring that both individuals and institutions remain responsible for authentic contributions.

7. Strengths and Limitations of Bibliometric Databases

Ranking organizations base their evaluations on selected bibliometric databases, each with its own strengths and limitations. No data source is entirely comprehensive or flawless. Acknowledging these trade-offs is essential to justify our preference for Google Scholar (GS) and challenge the widespread belief that other databases are "perfect."

Many platforms are curated citation indexes that cover 9,000–15,000 reputable journals. While often regarded as the "gold standard" due to established metrics (e.g., citation counts, h-index) and analytical tools, these databases have **inherent limitations**:

They disproportionately favor English-language publications and STEM fields.

Social sciences, humanities, and non-English or regional research are often underrepresented. Some databases cover only 5–20% of social science publications.

Non-article content—such as books, book chapters, and conference proceedings—is poorly represented, despite being essential in certain disciplines.

Even in natural sciences, some subfields and reputable journals are excluded, raising concerns about selection bias.

As subscription-based services, access is often limited for less-funded institutions and researchers.

Persistent issues also exist in standardizing author and institution names, and even respected databases have faced criticism regarding peer review and ethics.

By contrast, **Google Scholar** is free, broad in scope, and indexes nearly any academic content found online — including journal articles, theses, books, reports, and conference papers — across all languages and fields. This inclusiveness makes GS particularly valuable in fields that are overlooked by traditional databases. Studies show it captures significantly more citations in the social sciences and humanities, and it more effectively includes citations from books and proceedings. Google Scholar also benefits from continuous updates and open access, empowering users (e.g., via tools like *Publish or Perish*) to monitor their own impact without paywalls.

Limitations of GS: While errors in GS are generally random and not biased toward specific authors or fields, issues like excessive self-citation or fraudulent publications can be more visible. In contrast, other databases may systematically exclude certain publication types or regions. Nevertheless, when comparisons are made within similar academic contexts, Google Scholar provides a broad, meaningful view of research impact — though citation counts should always be interpreted with caution.

Conclusion: No bibliometric database is flawless or entirely comprehensive. Our use of Google Scholar is rooted in its inclusivity and accessibility, especially for underrepresented disciplines and institutions. At the same time, we recognize its limitations and actively mitigate them through multi-layered data cleaning, anomaly detection, and ethical oversight. The academic community continues to shape and improve these data sources; therefore, the best approach is to understand the strengths and weaknesses of each and apply them carefully and transparently.

8. How Frequently Are AD Scientific Index Rankings Updated?

New entries, deletions, corrections typically visible within **0–3 days**

- H-index, i10-index, and citation numbers are **updated every ~ 20 days, while the ranking is refreshed every 3 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 **2.626.747** scientists from 24.546 institutions across 221 countries. While these figures represent one of the broadest global datasets, we emphasize that **automatically including all researchers with public Google Scholar profiles is not our goal**.

The primary ways to be included are:

Paid Individual Registration: Researchers can ensure immediate inclusion by registering through the “Register” link at www.adscientificindex.com.

Institutional Registration: Universities, institutes, hospitals, and research centers can enroll their academic staff through our institutional bulk registration option.

Automatically indexing all public Google Scholar profiles would compromise data quality and sustainability. Instead, AD Scientific Index prioritizes a **sustainable, high-quality, and verifiable data structure over unlimited inclusion**, aiming to ensure **long-term academic reliability and fair representation**.

Additional considerations include:

Hidden or Deleted Profiles: Metrics (e.g., h-index, i10 index, citation count) of hidden or deleted profiles are removed from the system.

Removal Due to Ethical Issues: In cases involving false authorship, retracted publications, citation manipulation, or fabricated content, profiles may be removed without refund—even if registered.

Voluntary Removal: Profiles may be removed upon request.

As a result, some researchers from the same institution may be listed, while others are not. This reflects the structure and operational limits of the system, not individual academic merit. Researchers and institutions seeking increased visibility are encouraged to consider individual or institutional registration options tailored to their needs.

10. How Does AD Scientific Index Rank Scientists?

AD Scientific Index evaluates academic performance using six key indicators across two distinct timeframes:

Timeframes

- **Total (Career-Long):** Reflects cumulative academic impact over the entire career.
- **Recent (Last 5 years):** Reflects academic productivity, research momentum, and institutional contribution over the **last 5 years**.

By analyzing both dimensions, the Index offers a balanced view of long-term scholarly achievements and recent academic performance.

Core Indicators

- **H-index** (Total & Recent)
- **i10-index** (Total & Recent)
- **Citation Count** (Total & Recent)

These six indicators are used to rank over 2.6 million scientists and 24,500 institutions across multiple hierarchical levels, including:
World, Continent, Country, University

Branch, Sub-Branch

Ranking Logic
Each ranking is based on a customized order of indicator priority, depending on the ranking type:

Ranking Type	Indicator Priority Order
Total H-index	**Total H-index Recent H-index Total i10 Total Citations**
Recent H-index	**Recent H-index Recent i10 Total H-index Recent Citations**
Total i10 Index	**Total i10 Recent i10 Total H-index Total Citations**
Recent i10 Index	**Recent i10 Recent H-index Total i10 Recent Citations**
Total Citations	**Total Citations Recent Citations Total i10 Recent i10**
Recent Citations	**Recent Citations Total Citations Recent i10 Total i10**

The AD Scientific Index's time-aware and multi-dimensional methodology allows for a more meaningful and equitable ranking of academic profiles. By combining six indicators across two timeframes (Total and Recent), the system minimizes clustering caused by similar scores, highlights rising researchers through recent performance, and enables fairer comparisons across

career stages. This comprehensive approach transforms the ranking system into a deeper analytical tool that not only ranks scientists but also reflects their scientific momentum and real-time academic influence.

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.

11. How Are Institutions Ranked in the AD Scientific Index?

Institutions are ranked based on the percentile distribution of their affiliated researchers across six core indicators, each evaluated over two distinct timeframes: **Total (career-long) and Recent (last 5 years).**

This bottom-up approach considers how many researchers an institution has within the top 10%, 20%, 40%, 60%, 80%, and 90% performance percentiles—calculated in relation to the entire researcher pool (**2.626.747** scientists) listed in the AD Scientific Index. The institution's total number of affiliated researchers is also factored into the final ranking.

Ranking Logic

Rankings begin with the number of researchers an institution has in the top 10% performance group.

If two institutions have the same count in this group, the number of researchers in the next lower percentile group (e.g., top 20%) is compared.

The comparison continues sequentially through the lower percentiles (40%, 60%, 80%, and 90%) as needed.

If the tie persists across all percentiles, the institution with the greater total number of affiliated researchers ranks higher.

This methodology is independently applied to each of the following performance indicators:

• H-index (Total & Recent)

• i10-index (Total & Recent)

• Citation Count (Total & Recent)

Levels of Application

This methodology is used for:

- Global, continental, and national rankings

- Subject-based institutional rankings

- Special Rankings, such as: **Young University / Institution Rankings**
  Applied exclusively to institutions established within the past 30 years, using the same percentile-based methodology.

12. Subject-Specific Evaluation and Interdisciplinary Equity

The **AD Scientific Index** evaluates academic performance across **211 subfields grouped under 13 major subject areas**, including **Medical and Health Sciences, Engineering and Technology, Natural Sciences, Social Sciences, Law, Business and Management, Education, Economics, Agriculture and Forestry, Architecture and Design**, **History, Teology, Philosophy, Art and Humanities, Social Sciences and Humanities, Others**.

To ensure **interdisciplinary equity**, the Index applies **subject-specific evaluation frameworks** tailored to the unique nature of each discipline. Rather than relying on one-size-fits-all metrics, each field is assessed based on its own methods of knowledge production and academic impact, promoting fair and meaningful comparisons across all domains.

Field-Adaptive Assessment and Equal Opportunity

In **STEM fields** (Science, Technology, Engineering, and Mathematics), evaluation is based on **quantitative metrics** such as publication count, H-index, i10-index, citation numbers, and journal quality.

However, disciplines such as **Social Sciences, Law, Business and Management, Education, Economics, History, Teology, Philosophy, Art and Humanities, Social Sciences and Humanities** require different approaches. In these areas, **originality, cultural impact, policy influence, field-based research**, and **societal relevance** are prioritized, reflecting the qualitative nature of academic contribution in non-STEM domains.

This inclusive framework is made possible by **Google Scholar's broad coverage**, which includes books, theses, reports, conference proceedings, and non-English publications. As a result, disciplines that are often underrepresented in traditional rankings gain **greater visibility and fair representation**.

Table I. Scientists in Romania: Ranking and Analysis

#	Country	Country Region Rank	Country World Rank	Total Institutions	Total Scientist
1	Romania	22	47	98	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	441	1094	Romania	Public	1959	3	41	123	250
2	Carol Davila University of Medicine and Pharmacy	2	612	1491	Romania	Public	1857	5	27	44	102
3	Horia Hulubei National Institute of Physics and Nuclear Engineering	3	646	1571	Romania	Institution	1949	12	25	37	57
4	University of Bucharest	4	686	1672	Romania	Public	1864	5	23	36	52
5	University Politehnica of Bucharest	5	737	1793	Romania	Public	1864	5	20	73	159
6	University of Medicine and Pharmacy Iuliu Hatieganu Cluj Napoca	6	828	2031	Romania	Public	1919	4	17	28	81
7	University of Medicine and Pharmacy Victor Babes Timisoara	7	882	2170	Romania	Public	1944	1	15	36	60
8	Politehnica University Timisoara	8	975	2431	Romania	Private	1920	2	12	48	107
9	Dunarea de Jos University Galati	9	1034	2624	Romania	Public	1974	0	11	29	78
10	Petru Poni Institute of Macromolecular Chemistry	10	1090	2752	Romania	Institution	1999	0	10	33	50
11	Alexandru Ioan Cuza University	11	1135	2884	Romania	Public	1860	3	9	43	83
12	Universitatea Tehnica din Cluj-Napoca (North University of Baia Mare)	12	1196	3061	Romania	Public	1948	0	8	45	118
13	Bucharest Academy of Economic Studies	13	1259	3232	Romania	Public	1913	1	7	39	121

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14	University of Agricultural Sciences and Veterinary Medicine Cluj Napoca	14	1271	3257	Romania	Public	1869	0	7	27	49
15	Transilvania University of Brasov	15	1351	3483	Romania	Public	1948	1	6	36	95
16	West University of Timisoara	16	1355	3498	Romania	Public	1962	1	6	27	74
17	University of Medicine and Pharmacy Craiova	17	1448	3793	Romania	Public	1998	2	5	25	66
18	National Institute for R&D of Isotopic and Molecular Technologies Cluj-Napoca	18	1455	3808	Romania	Institution	2010	0	5	22	38
19	Gheorghe Asachi Technical University	19	1481	3904	Romania	Public	1937	1	5	14	32
20	University Stefan Cel Mare of Suceava	20	1612	4269	Romania	Public	1990	0	4	13	23
21	Institute of Space Science	21	1700	4538	Romania	Institution	1992	4	4	6	8
22	University of Craiova	22	1729	4611	Romania	Public	1947	0	3	27	59
23	University of Oradea	23	1731	4613	Romania	Public	1963	0	3	25	57
24	National Institute for Research and Development in Microtechnologies	24	1782	4750	Romania	Institution	1993	0	3	11	34
25	University Valachia Targoviste	25	1814	4838	Romania	Public	1992	0	3	9	17
26	National Institute for Laser Plasma and Radiation Physics	26	1917	5243	Romania	Institution	1977	0	3	3	9
27	University of Medicine, Pharmacy, Sciences and Technology George Emil	27	1946	5328	Romania	Public	1948	1	2	16	40
28	University Aurel Vlaicu Arad	28	2111	5925	Romania	Public	1990	0	2	4	13
29	Sapientia Hungarian University of Transylvania	29	2162	6116	Romania	Private	2001	0	2	3	6

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30	Banat University of Agricultural Sciences and Veterinary Medicine	30	2451	7210	Romania	Private	1945	1	1	4	4
31	Titu Maiorescu University	31	2486	7332	Romania	Private	1991	0	1	3	5
32	University Lucian Blaga of Sibiu	32	2547	7575	Romania	Public	1976	0	1	2	23
33	University of Bacau	33	2552	7585	Romania	Public	1961	0	1	2	14
34	National Institute for Earth Physics	34	2568	7646	Romania	Institution	1895	0	1	2	9
35	National Institute for Research & Development in Informatics	35	2584	7719	Romania	Institution	1970	0	1	2	6
36	Universitatea Apollonia din Iasi	36	2624	7937	Romania	Private	1991	0	1	2	5
37	University Ovidius	37	2684	8188	Romania	Public	1961	0	1	1	14
38	Simion Stoilow Institute of Mathematics of the Romanian Academy	38	2698	8246	Romania	Institution	1946	0	1	1	2
39	University of Medicine and Pharmacy Gr T Popa	39	2863	9113	Romania	Public	1879	0	0	24	69
40	Universitatea Tehnica de Constructii Bucuresti	40	2999	9575	Romania	Institution	1948	0	0	3	9
41	University of Agricultural Sciences and Veterinary Medicine Bucharest	41	3000	9576	Romania	Public	1852	0	0	3	11
42	University of Petrosani	42	3091	9949	Romania	Public	1948	0	0	2	10
43	Tiberiu Popoviciu Institute of Numerical Analysis	43	3150	10188	Romania	Institution	1951	0	0	2	2
44	Danubius University Galati	44	3203	10413	Romania	Public	1994	0	0	2	2
45	Institute of Solid Mechanics, Romania	45	3279	10790	Romania	Institution	2000	0	0	2	2
46	Ion Ionescu de la Brad Iasi University of Life Sciences	46	3289	10815	Romania	Public	1948	0	0	1	4

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47	1 December 1918 University	47	3296	10845	Romania	Public	1991	0	0	1	4
48	Military Technical Academy, Bucharest	48	3323	10950	Romania	Public	1949	0	0	1	5
49	Constantin Brancusi University of Targu-Jiu	49	3345	11055	Romania	Public	1990	0	0	1	1
50	Emil Racovita Institute of Speleology	50	3356	11095	Romania	Institution	1948	0	0	1	3
51	Spiru Haret University	51	3416	11413	Romania	Private	1991	0	0	1	2
52	Vasile Pârvan Institute of Archaeology, Romanian Academy	52	3453	11604	Romania	Institution	1920	0	0	1	2
53	Astronomical Institute of the Romanian Academy	53	3468	11687	Romania	Institution	1990	0	0	1	2
54	National Institute for Chemical Pharmaceutical Research Institute	54	3673	12693	Romania	Institution	2008	0	0	1	2
55	Ioan Slavici University	55	3730	13051	Romania	Private	2001	0	0	1	1
56	Institute of National Economy	56	3752	13176	Romania	Institution	1906	0	0	1	1
57	Ponderas Academic Hospital	57	3792	13311	Romania	Hospital	1998	0	0	1	1
58	Petroleum-Gas University of Ploiesti	58	3806	13348	Romania	Public	1948	0	0	0	6
59	Romanian American University	59	3878	13615	Romania	Public	1991	0	0	0	3
60	National Institute for Aerospace Research Elie Carafoli	60	3933	13925	Romania	Institution	1991	0	0	0	1
61	Universitatea Maritima Constanta	61	4019	14465	Romania	Public	1990	0	0	0	0
62	Nicolae Titulescu University	62	4028	14550	Romania	Private	1990	0	0	0	0
63	Universitatea Hyperion	63	4031	14595	Romania	Private	1990	0	0	0	2
64	Bitdefender	64	4070	14771	Romania	Company	2001	0	0	0	1

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65	National University of Physical Education and Sports	65	4071	14776	Romania	Private	1922	0	0	0	1
66	Institute of Sociology, Romanian Academy	66	4083	14886	Romania	Institution	1948	0	0	0	2
67	Institutul National de Cercetari Economice	67	4168	15434	Romania	Private	2018	0	0	0	1
68	Alexandru Ioan Cuza Police Academy	68	4200	15679	Romania	Public	1965	0	0	0	0
69	Institute of Archaeology, Romanian Academy, Iași	69	4217	15803	Romania	Institution	1990	0	0	0	1
70	National University of Arts Bucharest	70	4240	15959	Romania	Public	1864	0	0	0	1
71	Ion Mincu University of Architecture and Urbanism Bucharest	71	4339	16439	Romania	Public	1952	0	0	0	0
72	Emanuel University of Oradea	72	4367	16687	Romania	Private	1990	0	0	0	0
73	Artifex University	73	4386	16845	Romania	Public	1992	0	0	0	1
74	Nicolae Iorga Institute of History, Romanian Academy	74	4430	17277	Romania	Institution	1965	0	0	0	1
75	Universitatea Adventus	75	4433	17292	Romania	Public	1924	0	0	0	0
76	National Bank of Romania	76	4442	17345	Romania	Company	1880	0	0	0	1
77	Tibiscus University Timisoara	77	4456	17471	Romania	Private	1991	0	0	0	0
78	Bogdan Voda University of Cluj-Napoca	78	4475	17628	Romania	Private	1992	0	0	0	0
79	Universitatea Athenaeum	79	4510	17837	Romania	Private	1990	0	0	0	0
80	Institute for Fluvial and Marine Systems	80	4700	18951	Romania	Institution	2015	0	0	0	0
81	Partium Christian University	81	4759	19218	Romania	Private	1990	0	0	0	0
82	Romanian Space Agency	82	4763	19299	Romania	Institution	1991	0	0	0	0

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83	Universitatea Ecologica Bucuresti	83	4810	19965	Romania	Private	1990	0	0	0	0
84	University Dimitrie Cantemir Targu Mures	84	4880	20838	Romania	Private	1991	0	0	0	0
85	National Defence University of Romania Carol I	85	4881	20844	Romania	Public	1889	0	0	0	0
86	Academy of Agricultural and Forestry Sciences	86	4978	21659	Romania	Institution	1958	0	0	0	0
87	Agora University of Oradea	87	5054	22146	Romania	Private	2000	0	0	0	0
88	University of Art and Design Cluj-Napoca	88	5060	22214	Romania	Public	1926	0	0	0	0
89	National Institute of Statistics Romania	89	5061	22268	Romania	Institution	1859	0	0	0	0
90	Universitatea Andrei Saguna	90	5079	22538	Romania	Private	1992	0	0	0	0
91	Protestant Theological Institute in Cluj-Napoca	91	5081	22579	Romania	Institution	1948	0	0	0	0
92	Universitatea Petre Andrei	92	5096	22894	Romania	Private	1990	0	0	0	0
93	Universitatea Bioterra	93	5108	23061	Romania	Private	1990	0	0	0	0
94	George Baritiu Institute of History, Romanian Academy	94	5126	23202	Romania	Institution	2015	0	0	0	0
95	Institutul Teologic Penticostal - București	95	5170	23545	Romania	Institution	1976	0	0	0	0
96	Institute of Art History, Romanian Academy	96	5195	23818	Romania	Institution	1866	0	0	0	0
97	Romanian-German University of Sibiu	97	5218	24201	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	359	908	Romania	Public	1959	3	41	123	250
2	Carol Davila University of Medicine and Pharmacy	2	462	1169	Romania	Public	1857	5	27	44	102
3	University of Bucharest	3	503	1281	Romania	Public	1864	5	23	36	52
4	University Politehnica of Bucharest	4	524	1354	Romania	Public	1864	5	20	73	159
5	University of Medicine and Pharmacy Iuliu Hatieganu Cluj Napoca	5	572	1510	Romania	Public	1919	4	17	28	81
6	University of Medicine and Pharmacy Victor Babes Timisoara	6	600	1599	Romania	Public	1944	1	15	36	60
7	Politehnica University Timisoara	7	640	1749	Romania	Private	1920	2	12	48	107
8	Dunarea de Jos University Galati	8	666	1866	Romania	Public	1974	0	11	29	78
9	Alexandru Ioan Cuza University	9	708	2012	Romania	Public	1860	3	9	43	83
10	Universitatea Tehnica din Cluj-Napoca (North University of Baia Mare)	10	734	2120	Romania	Public	1948	0	8	45	118
11	Bucharest Academy of Economic Studies	11	757	2224	Romania	Public	1913	1	7	39	121
12	University of Agricultural Sciences and Veterinary Medicine Cluj Napoca	12	769	2247	Romania	Public	1869	0	7	27	49
13	Transilvania University of Brasov	13	805	2378	Romania	Public	1948	1	6	36	95
14	West University of Timisoara	14	808	2390	Romania	Public	1962	1	6	27	74

#	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	854	2569	Romania	Public	1998	2	5	25	66
16	Gheorghe Asachi Technical University	16	872	2651	Romania	Public	1937	1	5	14	32
17	University Stefan Cel Mare of Suceava	17	938	2881	Romania	Public	1990	0	4	13	23
18	University of Craiova	18	977	3059	Romania	Public	1947	0	3	27	59
19	University of Oradea	19	979	3061	Romania	Public	1963	0	3	25	57
20	University Valachia Targoviste	20	1031	3232	Romania	Public	1992	0	3	9	17
21	University of Medicine, Pharmacy, Sciences and Technology George Emil	21	1086	3542	Romania	Public	1948	1	2	16	40
22	University Aurel Vlaicu Arad	22	1186	3978	Romania	Public	1990	0	2	4	13
23	Sapientia Hungarian University of Transylvania	23	1213	4118	Romania	Private	2001	0	2	3	6
24	Banat University of Agricultural Sciences and Veterinary Medicine	24	1372	4900	Romania	Private	1945	1	1	4	4
25	Titu Maiorescu University	25	1396	5005	Romania	Private	1991	0	1	3	5
26	University Lucian Blaga of Sibiu	26	1427	5162	Romania	Public	1976	0	1	2	23
27	University of Bacau	27	1431	5171	Romania	Public	1961	0	1	2	14
28	Universitatea Apollonia din Iasi	28	1472	5440	Romania	Private	1991	0	1	2	5
29	University Ovidius	29	1490	5574	Romania	Public	1961	0	1	1	14
30	University of Medicine and Pharmacy Gr T Popa	30	1568	6212	Romania	Public	1879	0	0	24	69
31	University of Agricultural Sciences and Veterinary Medicine Bucharest	31	1660	6581	Romania	Public	1852	0	0	3	11
32	University of Petrosani	32	1723	6866	Romania	Public	1948	0	0	2	10

#	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	Danubius University Galati	33	1801	7252	Romania	Public	1994	0	0	2	2
34	Ion Ionescu de la Brad Iasi University of Life Sciences	34	1828	7513	Romania	Public	1948	0	0	1	4
35	1 December 1918 University	35	1833	7539	Romania	Public	1991	0	0	1	4
36	Military Technical Academy, Bucharest	36	1859	7633	Romania	Public	1949	0	0	1	5
37	Constantin Brancusi University of Targu-Jiu	37	1875	7725	Romania	Public	1990	0	0	1	1
38	Spiru Haret University	38	1925	8028	Romania	Private	1991	0	0	1	2
39	Ioan Slavici University	39	2105	9310	Romania	Private	2001	0	0	1	1
40	Petroleum-Gas University of Ploiesti	40	2126	9466	Romania	Public	1948	0	0	0	6
41	Romanian American University	41	2181	9696	Romania	Public	1991	0	0	0	3
42	Universitatea Maritima Constanta	42	2276	10411	Romania	Public	1990	0	0	0	0
43	Nicolae Titulescu University	43	2282	10492	Romania	Private	1990	0	0	0	0
44	Universitatea Hyperion	44	2285	10535	Romania	Private	1990	0	0	0	2
45	National University of Physical Education and Sports	45	2314	10697	Romania	Private	1922	0	0	0	1
46	Institutul National de Cercetari Economice	46	2377	11256	Romania	Private	2018	0	0	0	1
47	Alexandru Ioan Cuza Police Academy	47	2400	11471	Romania	Public	1965	0	0	0	0
48	National University of Arts Bucharest	48	2423	11708	Romania	Public	1864	0	0	0	1
49	Ion Mincu University of Architecture and Urbanism Bucharest	49	2474	12076	Romania	Public	1952	0	0	0	0
50	Emanuel University of Oradea	50	2496	12309	Romania	Private	1990	0	0	0	0
51	Artifex University	51	2509	12451	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	2542	12845	Romania	Public	1924	0	0	0	0
53	Tibiscus University Timisoara	53	2559	13007	Romania	Private	1991	0	0	0	0
54	Bogdan Voda University of Cluj-Napoca	54	2572	13150	Romania	Private	1992	0	0	0	0
55	Universitatea Athenaeum	55	2597	13331	Romania	Private	1990	0	0	0	0
56	Partium Christian University	56	2686	14219	Romania	Private	1990	0	0	0	0
57	Universitatea Ecologica Bucuresti	57	2716	14922	Romania	Private	1990	0	0	0	0
58	University Dimitrie Cantemir Targu Mures	58	2753	15699	Romania	Private	1991	0	0	0	0
59	National Defence University of Romania Carol I	59	2754	15704	Romania	Public	1889	0	0	0	0
60	Agora University of Oradea	60	2806	16689	Romania	Private	2000	0	0	0	0
61	University of Art and Design Cluj-Napoca	61	2812	16756	Romania	Public	1926	0	0	0	0
62	Universitatea Andrei Saguna	62	2819	17040	Romania	Private	1992	0	0	0	0
63	Universitatea Petre Andrei	63	2829	17359	Romania	Private	1990	0	0	0	0
64	Universitatea Bioterra	64	2834	17509	Romania	Private	1990	0	0	0	0
65	Romanian-German University of Sibiu	65	2879	18378	Romania	Private	1998	0	0	0	0

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	346	797	Romania	1959	3	41	123	250
2	Carol Davila University of Medicine and Pharmacy	2	441	1021	Romania	1857	5	27	44	102
3	University of Bucharest	3	478	1111	Romania	1864	5	23	36	52
4	University Politehnica of Bucharest	4	498	1176	Romania	1864	5	20	73	159
5	University of Medicine and Pharmacy Iuliu Hatieganu Cluj Napoca	5	539	1297	Romania	1919	4	17	28	81
6	University of Medicine and Pharmacy Victor Babes Timisoara	6	560	1366	Romania	1944	1	15	36	60
7	Dunarea de Jos University Galati	7	610	1571	Romania	1974	0	11	29	78
8	Alexandru Ioan Cuza University	8	650	1687	Romania	1860	3	9	43	83
9	Universitatea Tehnica din Cluj-Napoca (North University of Baia Mare)	9	674	1766	Romania	1948	0	8	45	118
10	Bucharest Academy of Economic Studies	10	692	1845	Romania	1913	1	7	39	121
11	University of Agricultural Sciences and Veterinary Medicine Cluj Napoca	11	703	1864	Romania	1869	0	7	27	49
12	Transilvania University of Brasov	12	729	1958	Romania	1948	1	6	36	95
13	West University of Timisoara	13	732	1969	Romania	1962	1	6	27	74
14	University of Medicine and Pharmacy Craiova	14	769	2097	Romania	1998	2	5	25	66
15	Gheorghe Asachi Technical University	15	783	2147	Romania	1937	1	5	14	32
16	University Stefan Cel Mare of Suceava	16	834	2311	Romania	1990	0	4	13	23
17	University of Craiova	17	864	2434	Romania	1947	0	3	27	59
18	University of Oradea	18	866	2436	Romania	1963	0	3	25	57
19	University Valachia Targoviste	19	906	2557	Romania	1992	0	3	9	17

#	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	950	2740	Romania	1948	1	2	16	40
21	University Aurel Vlaicu Arad	21	1031	3027	Romania	1990	0	2	4	13
22	University Lucian Blaga of Sibiu	22	1207	3710	Romania	1976	0	1	2	23
23	University of Bacau	23	1211	3715	Romania	1961	0	1	2	14
24	University Ovidius	24	1257	3927	Romania	1961	0	1	1	14
25	University of Medicine and Pharmacy Gr T Popa	25	1308	4201	Romania	1879	0	0	24	69
26	University of Agricultural Sciences and Veterinary Medicine Bucharest	26	1383	4438	Romania	1852	0	0	3	11
27	University of Petrosani	27	1426	4603	Romania	1948	0	0	2	10
28	Danubius University Galati	28	1485	4809	Romania	1994	0	0	2	2
29	Ion Ionescu de la Brad Iasi University of Life Sciences	29	1503	4942	Romania	1948	0	0	1	4
30	1 December 1918 University	30	1508	4960	Romania	1991	0	0	1	4
31	Military Technical Academy, Bucharest	31	1529	5023	Romania	1949	0	0	1	5
32	Constantin Brancusi University of Targu-Jiu	32	1542	5078	Romania	1990	0	0	1	1
33	Petroleum-Gas University of Ploiesti	33	1699	5930	Romania	1948	0	0	0	6
34	Romanian American University	34	1745	6075	Romania	1991	0	0	0	3
35	Universitatea Maritima Constanta	35	1810	6433	Romania	1990	0	0	0	0
36	Alexandru Ioan Cuza Police Academy	36	1874	6913	Romania	1965	0	0	0	0
37	National University of Arts Bucharest	37	1890	7035	Romania	1864	0	0	0	1
38	Ion Mincu University of Architecture and Urbanism Bucharest	38	1923	7222	Romania	1952	0	0	0	0
39	Artifex University	39	1943	7370	Romania	1992	0	0	0	1
40	Universitatea Adventus	40	1963	7559	Romania	1924	0	0	0	0
41	National Defence University of Romania Carol I	41	2093	8817	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	2125	9354	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	45	262	Romania	1920	2	12	48	107
2	Sapientia Hungarian University of Transylvania	2	166	1017	Romania	2001	0	2	3	6
3	Banat University of Agricultural Sciences and Veterinary Medicine	3	200	1333	Romania	1945	1	1	4	4
4	Titu Maiorescu University	4	208	1376	Romania	1991	0	1	3	5
5	Universitatea Apollonia din Iasi	5	230	1584	Romania	1991	0	1	2	5
6	Spiru Haret University	6	350	2785	Romania	1991	0	0	1	2
7	Ioan Slavici University	7	420	3459	Romania	2001	0	0	1	1
8	Nicolae Titulescu University	8	467	4015	Romania	1990	0	0	0	0
9	Universitatea Hyperion	9	469	4042	Romania	1990	0	0	0	2
10	National University of Physical Education and Sports	10	486	4140	Romania	1922	0	0	0	1
11	Institutul National de Cercetari Economice	11	515	4437	Romania	2018	0	0	0	1
12	Emanuel University of Oradea	12	558	4994	Romania	1990	0	0	0	0
13	Tibiscus University Timisoara	13	586	5377	Romania	1991	0	0	0	0
14	Bogdan Voda University of Cluj-Napoca	14	596	5460	Romania	1992	0	0	0	0
15	Universitatea Athenaeum	15	608	5555	Romania	1990	0	0	0	0
16	Partium Christian University	16	640	6028	Romania	1990	0	0	0	0
17	Universitatea Ecologica Bucuresti	17	651	6467	Romania	1990	0	0	0	0
18	University Dimitrie Cantemir Targu Mures	18	661	6884	Romania	1991	0	0	0	0
19	Agora University of Oradea	19	685	7368	Romania	2000	0	0	0	0
20	Universitatea Andrei Saguna	20	693	7554	Romania	1992	0	0	0	0
21	Universitatea Petre Andrei	21	698	7722	Romania	1990	0	0	0	0
22	Universitatea Bioterra	22	701	7791	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	723	8220	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	854	2569	Romania	1998	2	5	25	66
2	Sapientia Hungarian University of Transylvania	23	1213	4118	Romania	2001	0	2	3	6
3	Ioan Slavici University	39	2105	9310	Romania	2001	0	0	1	1
4	Institutul National de Cercetari Economice	46	2377	11256	Romania	2018	0	0	0	1
5	Agora University of Oradea	60	2806	16689	Romania	2000	0	0	0	0
6	Romanian-German University of Sibiu	65	2879	18378	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	291	Romania	1949	12	25	37	57
2	Petru Poni Institute of Macromolecular Chemistry	2	364	678	Romania	1999	0	10	33	50
3	National Institute for R&D of Isotopic and Molecular Technologies Cluj-Napoca	3	533	1007	Romania	2010	0	5	22	38
4	Institute of Space Science	4	645	1215	Romania	1992	4	4	6	8
5	National Institute for Research and Development in Microtechnologies	5	667	1268	Romania	1993	0	3	11	34
6	National Institute for Laser Plasma and Radiation Physics	6	726	1387	Romania	1977	0	3	3	9
7	National Institute for Earth Physics	7	931	1837	Romania	1895	0	1	2	9
8	National Institute for Research & Development in Informatics	8	936	1848	Romania	1970	0	1	2	6
9	Simion Stoilow Institute of Mathematics of the Romanian Academy	9	975	1942	Romania	1946	0	1	1	2
10	Universitatea Tehnica de Constructii Bucuresti	10	1047	2122	Romania	1948	0	0	3	9
11	Tiberiu Popoviciu Institute of Numerical Analysis	11	1074	2193	Romania	1951	0	0	2	2
12	Institute of Solid Mechanics, Romania	12	1109	2279	Romania	2000	0	0	2	2
13	Emil Racovita Institute of Speleology	13	1121	2305	Romania	1948	0	0	1	3
14	Vasile Pârvan Institute of Archaeology, Romanian Academy	14	1136	2349	Romania	1920	0	0	1	2
15	Astronomical Institute of the Romanian Academy	15	1138	2354	Romania	1990	0	0	1	2
16	National Institute for Chemical Pharmaceutical Research Institute	16	1179	2466	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	1199	2520	Romania	1906	0	0	1	1
18	National Institute for Aerospace Research Elie Carafoli	18	1241	2626	Romania	1991	0	0	0	1
19	Institute of Sociology, Romanian Academy	19	1268	2689	Romania	1948	0	0	0	2
20	Institute of Archaeology, Romanian Academy, Iași	20	1296	2765	Romania	1990	0	0	0	1
21	Nicolae Iorga Institute of History, Romanian Academy	21	1339	2875	Romania	1965	0	0	0	1
22	Institute for Fluvial and Marine Systems	22	1392	3040	Romania	2015	0	0	0	0
23	Romanian Space Agency	23	1410	3097	Romania	1991	0	0	0	0
24	Academy of Agricultural and Forestry Sciences	24	1453	3227	Romania	1958	0	0	0	0
25	National Institute of Statistics Romania	25	1476	3287	Romania	1859	0	0	0	0
26	Protestant Theological Institute in Cluj-Napoca	26	1481	3311	Romania	1948	0	0	0	0
27	George Baritiu Institute of History, Romanian Academy	27	1492	3356	Romania	2015	0	0	0	0
28	Institutul Teologic Penticostal - București	28	1510	3405	Romania	1976	0	0	0	0
29	Institute of Art History, Romanian Academy	29	1515	3416	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	395	1158	Romania	2001	0	0	0	1
2	National Bank of Romania	2	453	1316	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