

**MOSCOW INTERNATIONAL  
UNIVERSITY RANKING  
“THE THREE UNIVERSITY MISSIONS”  
(MOSIUR): PILOT EDITION**

**ANALYTICAL MATERIALS**

## SUMMARY

A fundamentally new academic ranking has been created, which for the first time assesses all three key university missions: education, research and interaction with society. This is the first global ranking that takes into account the third mission and as part of this – the importance of universities to their own countries, taking into account specific national traits.

The universities of continental Europe (48 universities), USA (41 universities), UK (18 universities) and China (14 universities) are most widely represented in the ranking. American universities dominate the top 20 ranking – Harvard University, MIT and Stanford University are ranked the first three.

Well-balanced universities have an advantage in the rankings, that is, institutions that perform equally well in all three university missions. As a rule, these are large multi-profile universities with a long history. It is these higher educational institutions that most profoundly **influence public life** – what's more in different spheres – and are of particular importance to their countries.

The universities of the USA and Western Europe, the "brain-gain" countries, demonstrate the highest level **of research activity**: twenty-three American universities and seven European universities, representing the UK, the Netherlands and Sweden were in the top 30 Research sub-ranking.

The Eastern European and Russian universities are highly competitive at the world level in the **quality of education**, which, in particular, is proved by students' victories in international contests and graduates' achievements in various spheres of public life. Thanks to its high level of graduate training, Eastern Europe continues to be a brain donor on the global market.

## PILOT RANKING: MAIN CONCLUSIONS

There were universities from 39 countries in the top 200 pilot version of the Moscow International University Ranking "The Three University Missions" (see Annex 1). The universities of continental Europe (48 universities) and the United States (41 universities) were most widely represented in the ranking. Notable successes were demonstrated by Britain and China, which were represented by 18 and 14 universities respectively in the top 200 rankings.

The top 20 was dominated by American universities – Harvard University, MIT, Stanford University and Yale University are at the top of the rankings. The best British universities were University of Cambridge and University of Oxford, which took 5th and 6th place in the finals table. Among the universities of continental Europe, the École Polytechnique Fédérale de Lausanne (Switzerland) had the best result (9th place) and among Asian universities University of Tokyo placed best with the 11th place. Lomonosov Moscow State University was recognized as the best university in Eastern Europe and Russia (25th place), the best university in Latin America was the National Autonomous University of Mexico (UNAM) (105th) and the best university in Africa was the University of Cape Town (145th).

**Well-balanced universities had an advantage in the rankings** – they successfully fulfilled three key missions – the educational, scientific and public mission. MosIUR is the first global ranking that takes into account the third mission and as part of this – the importance of universities to their own countries, taking into account specific national traits. The Moscow Ranking model turned out to be closer to national university rankings than to the now popular global rankings, which simply do not take into account universities' public missions and the national component – the contribution of universities to their countries' development. This approach provides a multilateral assessment for universities, which is especially important for countries whose graduates are more oriented toward their domestic market (e.g., Japan and Russia).

A high correlation was found for universities' order of priority for countries in the MosIUR ranking with the position of these universities in their national rankings. As a rule, **those institutions that were ranked highly by MosIUR were the same universities that occupied a leading position in their national rankings**. This applied to the United States, Russia, Brazil, Ireland, Poland and other countries. Nine of the top 10 US universities in the MosIUR rankings were also included in the top 10 of the American national US News and World Report rankings. Four of the top five universities in Russia according to the MosIUR ranking are in the top five of the Russian RAEX (Expert RA) ranking of universities. Eighty percent of the most highly rated Brazilian universities in the MosIUR rankings are also included in the top five universities of the national Brazilian RUF ranking. And the composition of the top five universities in Ireland according to the MosIUR ranking 100 percent coincided with the national ranking of the Sunday Times Good University Guide.

The successes of North American and Western European universities in global rankings are largely due to their high level of **research activities**. MosIUR was no exception. American universities dominate in the Research sub-ranking: they occupied 23 places in the top 30 (see Table 1). American universities’ research budget per staff member is 2.3 times more than the average for Japanese universities, three times more than for British universities and five times more than for Russian universities.

Along with US universities, seven Western European universities are represented in the top 30 Research sub-ranking – three from the UK and the Netherlands and one from Sweden. The best Russian university in this sub-ranking, Lomonosov Moscow State University, is rated 178th.

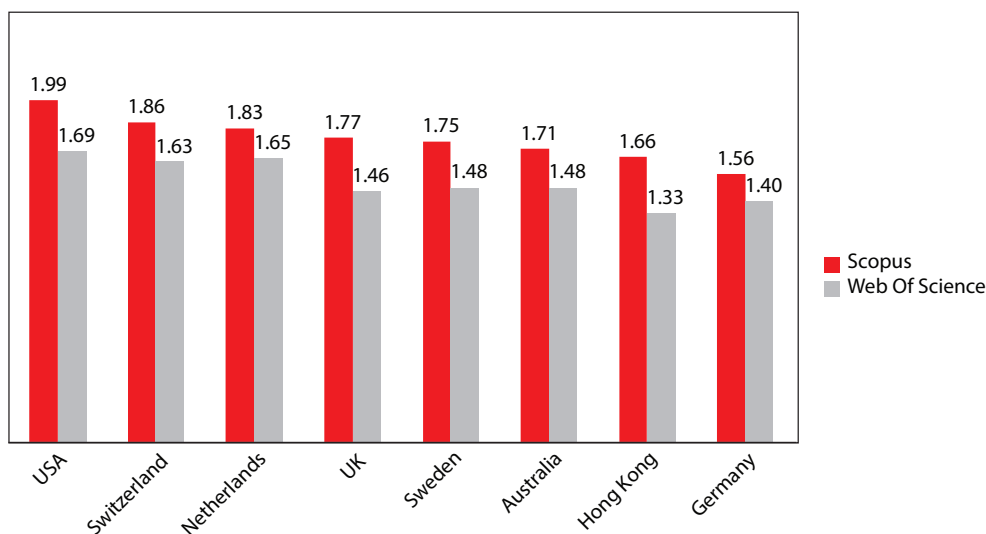
**Table 1.** *Mission: Research. Top 30 universities.*

| RANK | UNIVERSITY NAME                              | COUNTRY        |
|------|--|----------------|
| 1    | Massachusetts Institute of Technology (MIT)  | United States  |
| 2    | Harvard University                           | United States  |
| 3    | Stanford University                          | United States  |
| 4    | Princeton University                         | United States  |
| 5    | University of California, Berkeley           | United States  |
| 6    | Carnegie Mellon University                   | United States  |
| 7    | Columbia University                          | United States  |
| 8    | University of Chicago                        | United States  |
| 9    | University of Cambridge                      | United Kingdom |
| 10   | California Institute of Technology (Caltech) | United States  |
| 11   | Johns Hopkins University                     | United States  |
| 12   | University of Oxford                         | United Kingdom |
| 13   | Duke University                              | United States  |
| 14   | University of California, Los Angeles (UCLA) | United States  |
| 15   | University of Washington                     | United States  |
| 16   | Yale University                              | United States  |
| 17   | Karolinska Institute                         | Sweden         |
| 18   | Cornell University                           | United States  |
| 19   | University of California, San Diego (UCSD)   | United States  |
| 20   | Northwestern University                      | United States  |
| 21   | University of Illinois at Urbana-Champaign   | United States  |
| 22   | Erasmus University Rotterdam                 | Netherlands    |
| 23   | Radboud University Nijmegen                  | Netherlands    |
| 24   | University of California, Santa Barbara      | United States  |
| 25   | Wageningen University & Research             | Netherlands    |
| 26   | Imperial College London                      | United Kingdom |
| 27   | University of Pennsylvania                   | United States  |
| 28   | University of Maryland, College Park         | United States  |
| 29   | Rice University                              | United States  |
| 30   | University of Southern California            | United States  |

It is important to stress that when calculating scientometric data, the Moscow International Ranking is based on two bibliometric information providers – Clarivate Analytics (the Web Of Science database) and Elsevier (the Scopus database). This is an innovative approach for global rankings, it allows us to evaluate the quality of scientific publications more objectively than if only one of the largest providers were used.

US universities lead the normalised citation impact indicator. Publications from the American universities in MosIUR rankings are cited on average two times more often than the world average according to Scopus, and 1.7 times better according to the Web of Science. The Netherlands and Switzerland were also among the three leaders in the scientific paper citations, more over, this was revealed in both bibliometric databases (see Figure 1).

**Figure 1.** Normalised citation impact (global level): leading countries\*



\* publications in the period from 2012 to 2015 were taken into account. The calculation was carried out separately for six broad areas of knowledge as per OECD classification; the graph shows the average value for the six areas. The selection included countries represented in the ranking by at least four universities.

To assess the outstanding scientific achievements of staff members and university alumni within the MosIUR framework, the winners from the IREG List of International Academic Awards from 1997 to 2016 were analysed. Representatives from US universities were leaders in terms of the number of awards received: American universities’ average score for this parameter exceeds the result of British universities by a factor of two, Japanese universities by 3.7 times, Swiss universities by 5.3 times, and Russian universities, which close the top five by this criterion, by six times.

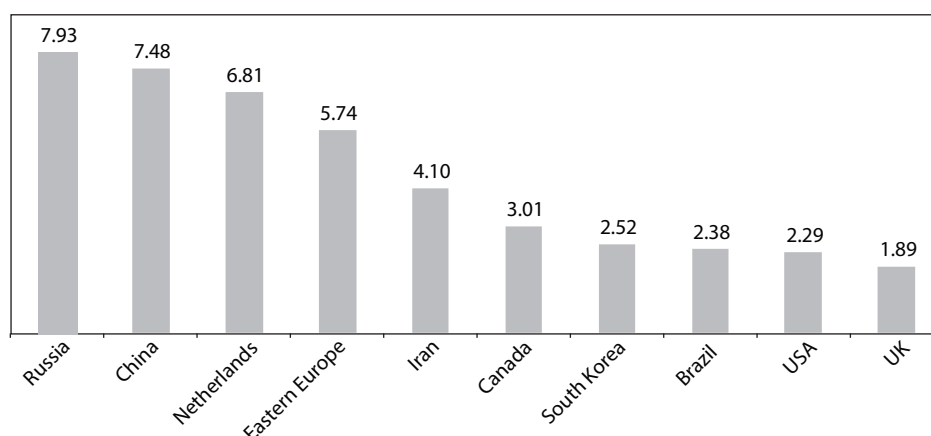
In the **Education** sub-ranking, American universities’ positions are certainly strong, but this is by no means an unconditional domination, as in the case in the Research sub-ranking. In the education sub-ranking list of the top 30 best universities there are 15 universities from the United States, two of them are among the top three in this field (Harvard University and Yale University, 1st and 3rd place respectively, see Table 2). Of all the parameters that were considered in assessing educational activities, the strongest aspect of American universities was the provision of financing. According to the Amount of Funding per Student criterion, nine out of 10 leading institutions are US universities, and the average figure for this indicator for all American universities is \$150,000, which is four times higher than the average for Western European universities. At the same time, the United States fails to match European countries in attracting foreign students: the share of foreign students in the leading universities of Britain and Switzerland is on average 33 percent, which is twice as high as the result for American universities.

**Table 2.** *Mission: Education. Top 30 universities.*

| RANK | UNIVERSITY NAME  | COUNTRY        |
|------|--|----------------|
| 1    | Harvard University   | United States  |
| 2    | University of Cambridge                                    | United Kingdom |
| 3    | Yale University  | United States  |
| 4    | Imperial College London                                    | United Kingdom |
| 5    | École polytechnique fédérale de Lausanne (EPFL)            | Switzerland    |
| 6    | University of Oxford                                       | United Kingdom |
| 7    | California Institute of Technology (Caltech)               | United States  |
| 8    | ETH Zurich   | Switzerland    |
| 9    | Johns Hopkins University                                   | United States  |
| 10   | Washington University in St. Louis                         | United States  |
| 11   | London School of Economics and Political Science (LSE)     | United Kingdom |
| 12   | The University of Manchester                               | United Kingdom |
| 13   | École Polytechnique  | France         |
| 14   | University of Chicago                                      | United States  |
| 15   | Lomonosov Moscow State University                          | Russia         |
| 16   | Massachusetts Institute of Technology (MIT)                | United States  |
| 17   | King's College London                                      | United Kingdom |
| 18   | University College London                                  | United Kingdom |
| 19   | University of California, San Diego (UCSD)                 | United States  |
| 20   | Stanford University  | United States  |
| 21   | Nanyang Technological University, Singapore (NTU)          | Singapore      |
| 22   | National University of Singapore (NUS)                     | Singapore      |
| 23   | Georgia Institute of Technology                            | United States  |
| 24   | University of Michigan                                     | United States  |
| 25   | Emory University   | United States  |
| 26   | Moscow Institute of Physics and Technology                 | Russia         |
| 27   | All India Institute of Medical Sciences, New Delhi (AIIMS) | India          |
| 28   | Boston University  | United States  |
| 29   | Cornell University   | United States  |
| 30   | Duke University  | United States  |

One of the Moscow ranking’s innovative indicators is the Wins in International Student Contests by Students criterion. This criterion is important because it measures the competitiveness of the students themselves (whereas regular scientometric indicators relate more to the staff of higher education institutions rather than the students). Twelve prestigious international competitions were included in the list of olympiads analysed, seven of which have American and British origins. Analysis of the data showed: University students from Russia, China, the Netherlands and Eastern European countries were the most successful students at international contests. Russian universities exceeded the number of victories of American universities by 3.4 times and British universities by 4.2 times (see Figure 2).

**Figure 2.** Wins in International Contests by Students per University\*



\* Winners and medalists from 12 international student contests for the period from 2013 to 2016 were taken into account. The following contests were taken into account: ACM International Collegiate Programming Contest; The Philip C. Jessup International Law Moot Court Competition; The World Universities Debating Championships; SIAM Student Paper Competition & SIAM Student Paper Prizes; International Mathematics Competition for University Students; Network of International Business Schools Worldwide Case & Business Plan Competitions; Green Brain of the Year Contest; The University Physics Competition; McGill Management International Case Competition; The Mathematical Contest in Modeling; John Molson Undergraduate Case Competition; Belgrade Business International Case Competition.

When assessing the parameters of the **University and Society** group, the ranking recorded a richer geographical diversity of leaders than in the evaluation of educational and scientific missions. Eleven states were represented in the top 25 institutions of the University and Society sub-ranking: Japan, USA, Mexico, Germany, UK, Canada, Taiwan, Russia, Switzerland, China and the Netherlands (see Table 3). This is an interesting result by all means, because until now the third university mission has remained terra incognita for compilers of international rankings.

The ranking showed that higher education institutions that most strongly influenced society are those that have two characteristics – a long history and a wide range of subject areas in which the university operates. It is these universities, those with a long history and rich range of scientific and educational programmes, that have most influence on public life in different spheres. As a result 27 of the 30 best institutions in the University and Society sub-ranking were founded before the beginning of the 20th century. Among the top 30 are institutions founded in the Middle Ages – the University of Oxford, the University of Cambridge (UK) and Ludwig-Maximilians Universität München (Germany); six of the eight representatives of the Ivy League – a group of elite and oldest universities in the United States (Harvard University, Columbia University, Yale University, Cornell University, Princeton University and the University of Pennsylvania), as well as one of the oldest universities in Russia, Lomonosov Moscow State University (founded in 1755).

**Table 3.** Mission: University & Society. Top 30 universities

| RANK | UNIVERSITY NAME                             | COUNTRY       |
|------|---|---------------|
| 1    | Harvard University                          | United States |
| 2    | University of Tokyo                         | Japan         |
| 3    | University of Michigan                      | United States |
| 4    | Waseda University                           | Japan         |
| 5    | Keio University                             | Japan         |
| 6    | Massachusetts Institute of Technology (MIT) | United States |

Table 3 (end)

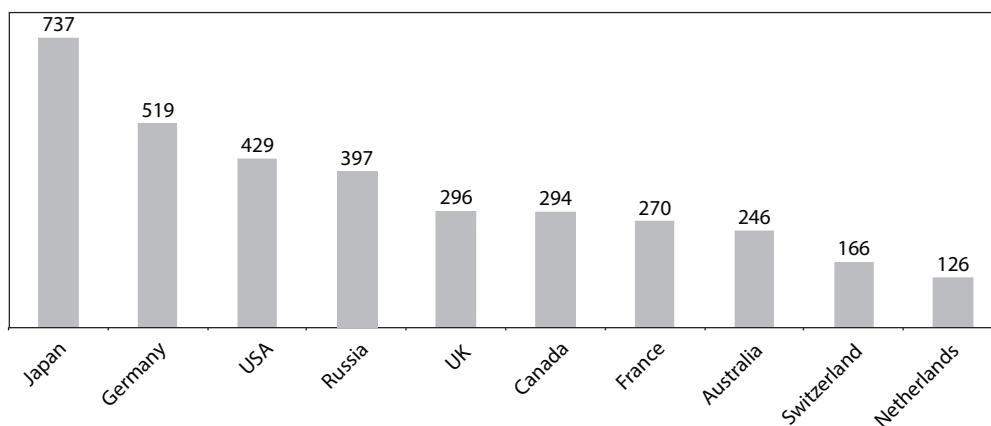
| RANK | UNIVERSITY NAME                                 | COUNTRY        |
|------|---|----------------|
| 7    | Stanford University                             | United States  |
| 8    | Columbia University                             | United States  |
| 9    | University of Pennsylvania                      | United States  |
| 10   | University of California, Berkeley              | United States  |
| 11   | National Autonomous University of Mexico (UNAM) | Mexico         |
| 12   | Yale University                                 | United States  |
| 13   | Ludwig-Maximilian University of Munich          | Germany        |
| 14   | Kyoto University                                | Japan          |
| 15   | University of Oxford                            | United Kingdom |
| 16   | University of Toronto                           | Canada         |
| 17   | National Taiwan University                      | Taiwan         |
| 18   | Lomonosov Moscow State University               | Russia         |
| 19   | University of Illinois at Urbana-Champaign      | United States  |
| 20   | University of Cambridge                         | United Kingdom |
| 21   | École polytechnique fédérale de Lausanne (EPFL) | Switzerland    |
| 22   | Cornell University                              | United States  |
| 23   | Peking University                               | China          |
| 24   | Delft University of Technology                  | Netherlands    |
| 25   | Princeton University                            | United States  |
| 26   | Duke University                                 | United States  |
| 27   | The University of Edinburgh                     | United Kingdom |
| 28   | Free University of Berlin                       | Germany        |
| 29   | University College London                       | United Kingdom |
| 30   | King's College London                           | United Kingdom |

Among the criteria used to assess the third university mission is one of MosIUR’s most innovative indicators: Alumni with a Wikipedia Page Devoted to Them. This criterion shows the number of successful graduates (in the spheres of politics, science, creativity, art, business and charity) that are successful in various fields, reflecting the influence of university graduates on society. Currently, Wikipedia has practically no alternatives when it comes to being a source for remotely measuring the number of graduates known for their notable career successes, based on a large array of data covering most countries worldwide and available in national languages in regions where English is not very common.

Japanese universities lead in the average number of graduates who have a personal page on Wikipedia. On average, for one top-100 ranked Japanese university, there are 737 graduates with a personal Wikipedia page. Following Japan, with a significant gap, are universities in Germany (519 alumni), the United States (429), Russia (397) and the UK (296) closing out the top five. The top 10 countries in this indicator also include Canada, France, Australia, Switzerland and the Netherlands (see Figure 3). Individual universities from other countries that successfully exceeded the 300 graduates level included: the National Taiwan University, Charles University (Czech Republic) and the National Autonomous University of Mexico.



**Figure 3.** Alumni with an individual Wikipedia page, average per university\*

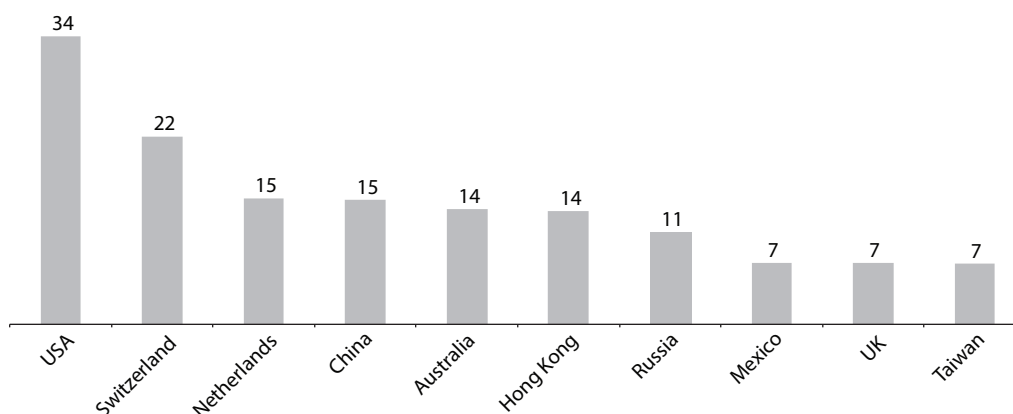


\* graduates from the MosIUR top 100 rankings, born no earlier than 1947

Another innovative indicator used for the first time in compiling a global academic ranking is the Number of Online University Courses Run on the Largest Global Platforms, Coursera and edX. Clear demand has led to the creation of courses open to the public and in the near future this field of educational activity will only develop further. The greater the number of open courses hosted on global online platforms, the wider the range of knowledge provided by a university through internet technologies and the greater its contribution to the accessibility of education worldwide.

The best indicators of active development in large-scale open online courses are demonstrated by US universities – on average, one American university runs in total 34 courses on the two included platforms; second place is occupied by universities of Switzerland with 22 courses; followed by the Netherlands and China (15 courses per university, see Figure 4).

**Figure 4.** Online courses on biggest global platforms per university, country average



\* - according to the MosIUR university sample.

Taking into account that the University and Society group of criteria is innovative in the global practice of rating universities, there is a high probability that next year the list of criteria for evaluating the interaction between universities and society and the range of sources of information will be expanded. By the very fact of its advent, the Moscow International University Ranking "The Three University Missions" gave a powerful impetus to the study of the "third university mission" all around the world, which contributes not only to improving universities' global rankings, but also to the development of higher education in general.

## **BACKGROUND INFORMATION. WHY DO WE NEED A NEW RANKING**

The need to create a new, Russia-based international ranking of universities has been a long time coming. Existing popular global rankings' university assessments are rather one-sided. Scientific articles and subjective opinions of experts are what mainly determine the position of universities in these rankings. The total weight of scientometric and reputational indicators in the global ranking of The Times Higher Education is 71.5 percent and in the Quacquarelli Symonds ranking it is 70 percent. As a result, these two British rankings give a huge head start to the universities of English-speaking countries, since publications in English are quoted in the overwhelming number of cases and speakers of the same language prevail among the interviewed experts. With this approach, Russian universities (as well as universities in Japan, Germany, or, say, Spain) inevitably see their positions fall.

At the same time, one of the main functions of universities is to provide high-quality education to students – which remains far on the periphery in the British ranking agencies' methodology. As for the third university mission, the influence of the university and its graduates on society, and the importance of the university for the country where it is located – all these aspects were not measured by global rankings.

Moscow International University Ranking "The Three University Missions", conceived it as a more objective tool for assessing universities, was initiated by the rector of Lomonosov Moscow State University Victor Sadovnichy. In particular, the ranking system's creation was fuelled by the desire to evaluate higher education institutions with different approaches, to avoid the excessive influence of scientific citations on the ranking's results and to completely eliminate subjective expert opinion polls.

The new ranking covers all three of the most important university missions: educational (weighted at 45 percent), research (weighted at 25 percent) and, in a first for ranking systems – the influence of universities on society (weighted at 30 percent).

## ANNEX 1.

### *Moscow International University Ranking "The Three University Missions": Final Results*

| RANK | UNIVERSITY NAME                                   | COUNTRY        | OVERALL SCORE |
|------|---|----------------|---------------|
| 1    | Harvard University                                | United States  | 89.499        |
| 2    | Massachusetts Institute of Technology (MIT)       | United States  | 69.646        |
| 3    | Stanford University                               | United States  | 66.599        |
| 4    | Yale University                                   | United States  | 65.498        |
| 5    | University of Cambridge                           | United Kingdom | 63.966        |
| 6    | University of Oxford                              | United Kingdom | 62.417        |
| 7    | University of Michigan                            | United States  | 59.398        |
| 8    | Johns Hopkins University                          | United States  | 57.864        |
| 9    | École polytechnique fédérale de Lausanne (EPFL)   | Switzerland    | 57.121        |
| 10   | Princeton University                              | United States  | 56.866        |
| 11   | University of Tokyo                               | Japan          | 56.113        |
| 12   | Columbia University                               | United States  | 55.794        |
| 13   | Imperial College London                           | United Kingdom | 55.727        |
| 14   | University of Chicago                             | United States  | 55.613        |
| 15   | California Institute of Technology (Caltech)      | United States  | 55.461        |
| 16   | University of Pennsylvania                        | United States  | 55.246        |
| 17   | ETH Zurich  | Switzerland    | 54.367        |
| 18   | Cornell University                                | United States  | 53.486        |
| 19   | Duke University                                   | United States  | 53.385        |
| 20   | University of California, Berkeley                | United States  | 53.209        |
| 21   | University of California, San Diego (UCSD)        | United States  | 52.835        |
| 22   | University College London                         | United Kingdom | 52.010        |
| 23   | King's College London                             | United Kingdom | 51.108        |
| 24   | University of California, Los Angeles (UCLA)      | United States  | 51.012        |
| 25   | Lomonosov Moscow State University                 | Russia         | 49.695        |
| 26   | Washington University in St. Louis                | United States  | 49.505        |
| 27   | The University of Manchester                      | United Kingdom | 49.192        |
| 28   | National University of Singapore (NUS)            | Singapore      | 49.073        |
| 29   | Kyoto University                                  | Japan          | 48.772        |
| 30   | Northwestern University                           | United States  | 48.713        |
| 31   | Georgia Institute of Technology                   | United States  | 48.691        |
| 32   | Nanyang Technological University, Singapore (NTU) | Singapore      | 48.512        |
| 33   | Peking University                                 | China          | 48.322        |
| 34   | Karolinska Institute                              | Sweden         | 48.206        |
| 35   | Boston University                                 | United States  | 47.408        |

Table (continued)

| RANK | UNIVERSITY NAME  | COUNTRY         | OVERALL SCORE |
|------|--|-----------------|---------------|
| 36   | London School of Economics and Political Science (LSE) | United Kingdom  | 47.195        |
| 37   | University of Illinois at Urbana-Champaign             | United States   | 47.173        |
| 38   | University of Geneva                                   | Switzerland     | 46.773        |
| 39   | Emory University                                       | United States   | 46.277        |
| 40   | Rice University  | United States   | 46.076        |
| 41   | University of Washington                               | United States   | 45.835        |
| 42   | Heidelberg University                                  | Germany         | 45.600        |
| 43   | École normale supérieure, Paris                        | France          | 45.261        |
| 44   | École Polytechnique                                    | France          | 45.216        |
| 45   | New York University                                    | United States   | 45.068        |
| 46   | University of Wisconsin-Madison                        | United States   | 45.039        |
| 47   | Dartmouth College                                      | United States   | 44.625        |
| 48   | The University of Edinburgh                            | United Kingdom  | 44.486        |
| 49   | The Australian National University                     | Australia       | 43.844        |
| 50   | The Chinese University of Hong Kong                    | China/Hong Kong | 43.769        |
| 51   | University of Sydney                                   | Australia       | 43.618        |
| 52   | University of Toronto                                  | Canada          | 43.513        |
| 53   | University of Pittsburgh                               | United States   | 43.439        |
| 54   | University of Copenhagen                               | Denmark         | 43.302        |
| 55   | University of Zurich                                   | Switzerland     | 43.168        |
| 56   | University of Bristol                                  | United Kingdom  | 43.144        |
| 57   | The University of Warwick                              | United Kingdom  | 43.058        |
| 58   | Wageningen University & Research                       | Netherlands     | 42.954        |
| 59   | Carnegie Mellon University                             | United States   | 42.794        |
| 60   | Delft University of Technology                         | Netherlands     | 42.744        |
| 61   | University of Southern California                      | United States   | 42.589        |
| 62   | University of Minnesota, Twin Cities                   | United States   | 42.378        |
| 63   | University of Basel                                    | Switzerland     | 42.114        |
| 64   | University of Maryland, College Park                   | United States   | 42.031        |
| 65   | University of Tübingen                                 | Germany         | 41.701        |
| 66   | Radboud University Nijmegen                            | Netherlands     | 41.612        |
| 67   | University of Amsterdam                                | Netherlands     | 41.556        |
| 68   | Tohoku University                                      | Japan           | 41.242        |
| 69   | Karlsruhe Institute of Technology (KIT)                | Germany         | 41.056        |
| 70   | University of North Carolina, Chapel Hill              | United States   | 41.046        |
| 71   | Uppsala University                                     | Sweden          | 41.023        |
| 72   | Saint Petersburg State University                      | Russia          | 40.914        |
| 73   | Moscow Institute of Physics and Technology             | Russia          | 40.891        |

Table (continued)

| RANK | UNIVERSITY NAME   | COUNTRY         | OVERALL SCORE |
|------|---|-----------------|---------------|
| 74   | Maastricht University   | Netherlands     | 40.520        |
| 75   | The University of Melbourne                                   | Australia       | 40.457        |
| 76   | The University of Sheffield                                   | United Kingdom  | 40.225        |
| 77   | University of California, Irvine                              | United States   | 39.969        |
| 78   | Nagoya University   | Japan           | 39.967        |
| 79   | Fudan University  | China           | 39.929        |
| 80   | The University of Hong Kong                                   | China/Hong Kong | 39.788        |
| 81   | University of St Andrews                                      | United Kingdom  | 39.665        |
| 82   | Charles University  | Czech Republic  | 39.464        |
| 83   | Ludwig-Maximilian University of Munich                        | Germany         | 39.397        |
| 84   | Trinity College Dublin  | Ireland         | 39.145        |
| 85   | Shanghai Jiao Tong University                                 | China           | 38.933        |
| 86   | University of Oslo  | Norway          | 38.876        |
| 87   | University of Alberta   | Canada          | 38.755        |
| 88   | University of California, Davis                               | United States   | 38.736        |
| 89   | Aarhus University   | Denmark         | 38.561        |
| 90   | University of British Columbia                                | Canada          | 38.393        |
| 91   | Brown University  | United States   | 38.286        |
| 92   | RWTH Aachen University  | Germany         | 38.254        |
| 93   | Pennsylvania State University                                 | United States   | 38.152        |
| 94   | University of Freiburg  | Germany         | 38.107        |
| 95   | Erasmus University Rotterdam                                  | Netherlands     | 37.867        |
| 96   | The Ohio State University                                     | United States   | 37.809        |
| 97   | Pohang University of Science and Technology (POSTECH)         | South Korea     | 37.533        |
| 98   | University of Glasgow   | United Kingdom  | 37.524        |
| 99   | University of Southampton                                     | United Kingdom  | 37.376        |
| 100  | KU Leuven   | Belgium         | 37.262        |
| 101  | Université Pierre et Marie Curie (UPMC)                       | France          | 37.134        |
| 102  | Free University of Berlin                                     | Germany         | 36.912        |
| 103  | University of Science and Technology of China                 | China           | 36.607        |
| 104  | Osaka University  | Japan           | 36.606        |
| 105  | National Autonomous University of Mexico (UNAM)               | Mexico          | 36.552        |
| 106  | Tsinghua University   | China           | 36.520        |
| 107  | National Research University Higher School of Economics (HSE) | Russia          | 36.216        |
| 108  | University of California, Santa Barbara                       | United States   | 36.049        |
| 109  | Utrecht University  | Netherlands     | 35.974        |
| 110  | University of Nottingham                                      | United Kingdom  | 35.848        |
| 111  | Keio University   | Japan           | 35.808        |

Table (continued)

| RANK | UNIVERSITY NAME  | COUNTRY         | OVERALL SCORE |
|------|--|-----------------|---------------|
| 112  | The University of Queensland                               | Australia       | 35.722        |
| 113  | Korea Advanced Institute of Science and Technology (KAIST) | South Korea     | 35.678        |
| 114  | University of Helsinki                                     | Finland         | 35.463        |
| 115  | Technical University of Munich                             | Germany         | 35.212        |
| 116  | Leiden University  | Netherlands     | 34.985        |
| 117  | Waseda University  | Japan           | 34.765        |
| 118  | The University of Auckland                                 | New Zealand     | 34.761        |
| 119  | Korea University   | South Korea     | 34.558        |
| 120  | KTH Royal Institute of Technology                          | Sweden          | 34.529        |
| 121  | Tokyo Institute of Technology                              | Japan           | 34.474        |
| 122  | University of São Paulo (USP)                              | Brazil          | 34.449        |
| 123  | University of Groningen                                    | Netherlands     | 33.999        |
| 124  | University of Leeds  | United Kingdom  | 33.856        |
| 125  | All India Institute of Medical Sciences, New Delhi (AIIMS) | India           | 33.602        |
| 126  | McGill University  | Canada          | 33.529        |
| 127  | Pontifical University of Chile (PUC)                       | Chile           | 33.235        |
| 128  | Vienna University of Technology                            | Austria         | 33.155        |
| 129  | Lund University  | Sweden          | 33.146        |
| 130  | University of Birmingham                                   | United Kingdom  | 33.142        |
| 131  | National Research Nuclear University MEPhI                 | Russia          | 33.108        |
| 132  | Novosibirsk State University                               | Russia          | 33.071        |
| 133  | Seoul National University                                  | South Korea     | 33.027        |
| 134  | The University of New South Wales (UNSW Sydney)            | Australia       | 32.904        |
| 135  | The Hebrew University of Jerusalem                         | Israel          | 32.892        |
| 136  | Tomsk Polytechnic University                               | Russia          | 32.819        |
| 137  | The University of Western Australia                        | Australia       | 32.762        |
| 138  | National Taiwan University                                 | Taiwan          | 32.663        |
| 139  | The University of Chile                                    | Chile           | 32.653        |
| 140  | Zhejiang University  | China           | 32.630        |
| 141  | National University of Ireland, Galway (NUI Galway)        | Ireland         | 32.460        |
| 142  | Kyushu University  | Japan           | 32.426        |
| 143  | Indian Institute of Science, Bangalore                     | India           | 32.406        |
| 144  | University College Dublin                                  | Ireland         | 32.238        |
| 145  | University of Cape Town                                    | South Africa    | 32.185        |
| 146  | University of Witwatersrand                                | South Africa    | 32.128        |
| 147  | Okayama University   | Japan           | 31.963        |
| 148  | Xian Jiao Tong University                                  | China           | 31.748        |
| 149  | Hong Kong University of Science and Technology (HKUST)     | China/Hong Kong | 31.227        |

Table (continued)

| RANK | UNIVERSITY NAME  | COUNTRY         | OVERALL SCORE |
|------|--|-----------------|---------------|
| 150  | University of Waterloo   | Canada          | 30.916        |
| 151  | Humboldt University of Berlin                                  | Germany         | 30.562        |
| 152  | Technical University of Berlin                                 | Germany         | 30.525        |
| 153  | Monterrey Institute of Technology and Higher Education (ITESM) | Mexico          | 30.507        |
| 154  | University of Texas at Austin                                  | United States   | 30.208        |
| 155  | Hiroshima University   | Japan           | 30.099        |
| 156  | Autonomous University of Barcelona (UAB)                       | Spain           | 29.863        |
| 157  | Toyota Technological Institute                                 | Japan           | 29.771        |
| 158  | University of Warsaw   | Poland          | 29.770        |
| 159  | Federal University of Rio Grande do Sul (UFRGS)                | Brazil          | 29.714        |
| 160  | Durham University  | United Kingdom  | 29.680        |
| 161  | Monash University  | Australia       | 29.026        |
| 162  | Nanjing University   | China           | 29.019        |
| 163  | University of Vienna   | Austria         | 28.925        |
| 164  | Indian Institute of Technology, Kharagpur                      | India           | 28.174        |
| 165  | Universidad Complutense de Madrid (UCM)                        | Spain           | 28.132        |
| 166  | El Colegio de México   | Mexico          | 27.772        |
| 167  | Sungkyunkwan University (SKKU)                                 | South Korea     | 27.484        |
| 168  | Belarusian State University                                    | Belarus         | 27.316        |
| 169  | Istanbul University  | Turkey          | 27.238        |
| 170  | Tehran University of Medical Sciences                          | Iran            | 27.136        |
| 171  | Purdue University  | United States   | 27.022        |
| 172  | Beijing Normal University                                      | China           | 27.009        |
| 173  | Peter the Great St. Petersburg Polytechnic University          | Russia          | 26.947        |
| 174  | University of Buenos Aires (UBA)                               | Argentina       | 26.900        |
| 175  | National Tsing Hua University                                  | Taiwan          | 26.862        |
| 176  | Tomsk State University   | Russia          | 26.654        |
| 177  | McMaster University  | Canada          | 25.813        |
| 178  | University College Cork  | Ireland         | 25.478        |
| 179  | National Cheng Kung University                                 | Taiwan          | 25.370        |
| 180  | University of Victoria   | Canada          | 25.037        |
| 181  | Jagiellonian University in Krakow                              | Poland          | 24.707        |
| 182  | National Polytechnic Institute, Mexico                         | Mexico          | 24.681        |
| 183  | Federal University of Rio de Janeiro (UFRJ)                    | Brazil          | 24.67         |
| 184  | Université de Montréal   | Canada          | 24.665        |
| 185  | City University of Hong Kong                                   | China/Hong Kong | 24.627        |
| 186  | Middle East Technical University                               | Turkey          | 24.596        |
| 187  | University of Bologna  | Italy           | 24.525        |

*Table (end)*

| RANK | UNIVERSITY NAME   | COUNTRY        | OVERALL SCORE |
|------|---|----------------|---------------|
| 188  | University of Rome Tor Vergata  | Italy          | 23.872        |
| 189  | Simon Fraser University   | Canada         | 23.824        |
| 190  | Indian Institute of Technology, Delhi   | India          | 23.515        |
| 191  | Dublin City University  | Ireland        | 23.306        |
| 192  | Moscow State Institute of International Relations                                   | Russia         | 23.142        |
| 193  | Taras Shevchenko National University of Kyiv  | Ukraine        | 22.990        |
| 194  | Kazan Federal University  | Russia         | 22.504        |
| 195  | Ural Federal University   | Russia         | 22.496        |
| 196  | University of Iceland   | Iceland        | 22.250        |
| 197  | Russian Presidential Academy of National Economy and Public Administration (RANEPA) | Russia         | 22.072        |
| 198  | Sun Yat-sen University (SYSU)   | China          | 21.964        |
| 199  | Masaryk University  | Czech Republic | 21.894        |
| 200  | Indian Institute of Technology, Roorkee   | India          | 21.804        |