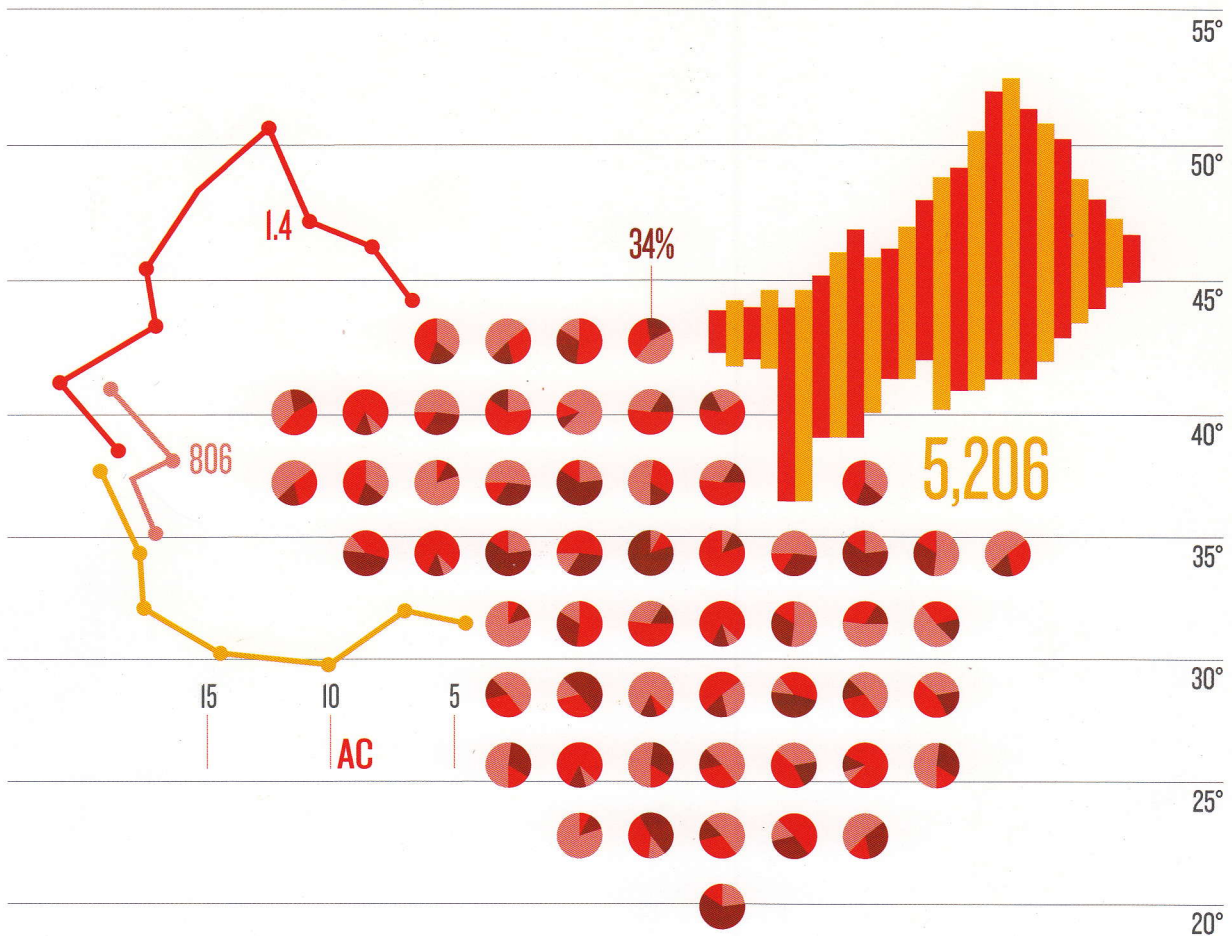


nature INDEX 2014

CHINA



A guide to the Nature Index

A description of the terminology and methodology used in this supplement, and a guide to the functionality available online at natureindex.com.

The Nature Index is a database of author affiliations and institutional relationships, used to track contributions to articles published in a small group of highly selective journals that have been chosen by an independent group of working scientists.

Data in the Nature Index are updated monthly, with the most recent 12 months of data available under a Creative Commons licence at natureindex.com. The database is compiled by Nature Publishing Group (NPG) in collaboration with sister company Digital Science.

NATURE INDEX METRICS

There are three measures provided by the Nature Index to track affiliation data. The simplest is the article count (AC). A country or institution is given an AC of 1 for each article that has at least one author from that country or institution. This is the case whether an article has one or a hundred authors, and it means that the same article can contribute to the AC of multiple countries or institutions.

To get a better sense of a country or institution's contribution to an article, and to remove the issue of double-counting of articles, the Nature Index uses the fractional count (FC). FC takes into account the relative contribution of each author to an article. The total FC available per paper is 1, and this is shared between all authors under the assumption that each contributed equally. For instance, a paper with 10 authors means that each author receives an FC of 0.1. For authors with joint affiliations, the individual FC is then split equally between each affiliation.

The third measure is the weighted fractional count (WFC), which applies a weighting to the FC in order to adjust for the over-representation of papers from astronomy and astrophysics. The four journals in these disciplines publish about 50% of all papers in international journals in this field — approximately five-times the equivalent figures for other fields. Therefore, although the data for astronomy and astrophysics are compiled in exactly the same way as for all other disciplines, articles from these journals are assigned one-fifth the weight of other articles (i.e. the FC is multiplied by 0.2 to derive the WFC).

Users of natureindex.com can search for specific institutions or countries and generate their own reports, ordered by article count (AC), fractional count (FC) or weighted fractional count (WFC).

Each query will return a profile page that lists the country or institution's recent research outputs, from which it is possible to drill down for more information. For example, articles can be displayed by journal, and then by article title. As in the supplement, research outputs are organized by subject area. The profile page also lists the institution or country's top collaborators, as well as its relationship with other research organizations.

The total FC or WFC for an institution is derived by summing the FC or WFC for individual authors. The process is similar for countries, although complicated by the fact that some institutions have overseas labs that will be counted towards the host country totals. What's more, there is great variability in the way authors present their affiliations. Every effort is made to count affiliations consistently, making reasonable assumptions. For more information on how the affiliation information is processed, please see the frequently asked questions at natureindex.com.

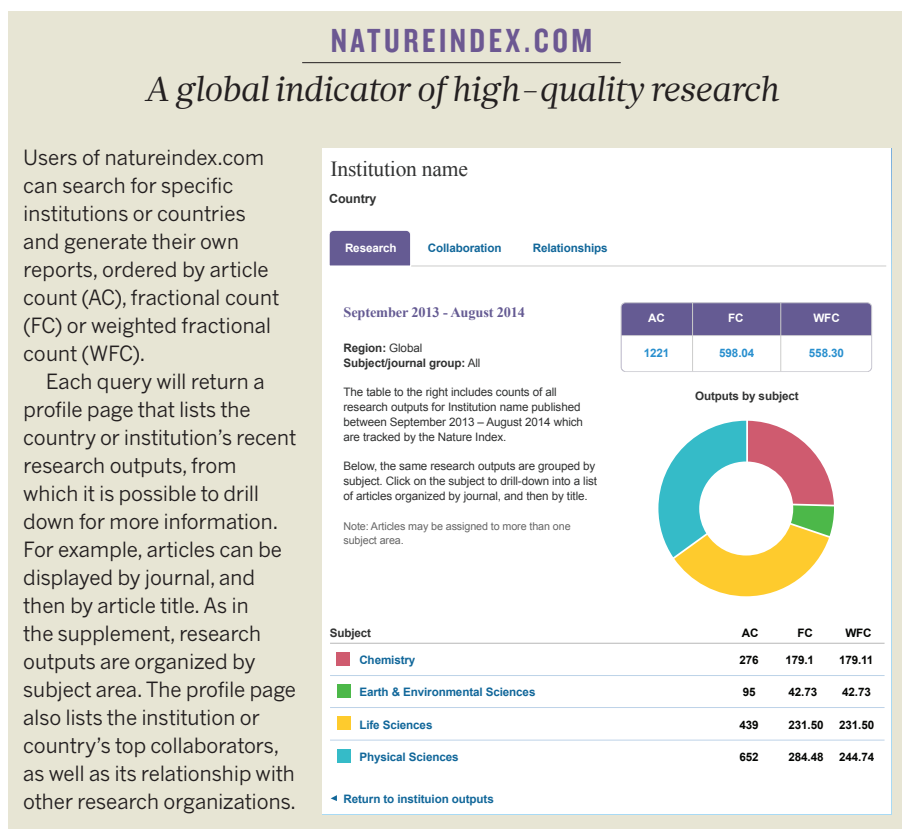
THE SUPPLEMENT

Nature Index 2014 Global is based on a snapshot of data from natureindex.com, covering articles published between 1 January and 31 December, 2013.

Most analyses within the Nature Index 2014

Global supplement use the WFC as the primary metric, as it provides a more even basis for comparison across multiple disciplines, and in determining the relative contribution of each country/institution.

Additional layers of information concerning funding levels, numbers of researchers, size of population and so on, are taken from publicly available sources. In several places, we use altmetrics as a supporting data source. Altmetrics is an alternative way to measure the impact of a paper by tracking different online sources (newspaper stories, tweets, blog posts, comments) that mention the paper. The altmetric score for an article gives an idea of the attention that it has received. Our data are from altmetric.com, provided by the start-up company Altmetric — which is supported by Digital Science. To see more about how this score is calculated, please visit support.altmetric.com. ■



Nanjing

Nanjing has long been a hotbed for scientific discovery and technological innovations. Now, through promoting materials science and astrophysics, the former capital city hopes to step out from the shadows of its neighbour and rival Shanghai.

ARTICLE COUNT (AC): **795**
 FRACTIONAL COUNT (FC): **362**
 WEIGHTED FRACTIONAL COUNT (WFC): **310**

Nanjing, surrounded by green mountains and rivers, is the capital city of Jiangsu province. Though it has long been a popular destination for tourists, the 'ancient capital' is often overlooked by foreign investors who flock to nearby, and much larger, Shanghai.

Nanjing's 2012 budget for scientific research and development was US\$1.5 billion, comprised of equal contributions from local government and industry. The city's eight pillar industries in the high-tech sector are supported by more than 100 universities and research institutions, including the premier institution for education — Nanjing University (NJU).

NJU is by far Nanjing's largest contributor to the Nature Index, and fourth overall in China by weighted fractional count (WFC). In 2013, the university published 391 articles (WFC = 194.6), accounting for 64% of the city's WFC. Despite this output, NJU contributed only one article (WFC = 0.05) to *Science* and none to *Nature*.

NJU derives most of its WFC from chemistry. Huangxian Ju, Jingjuan Xu and Hongyuan Chen from the school of chemistry and chemical engineering are NJU's largest contributors. Ju — also the director of the Ministry of Education Key Laboratory of Analytical Chemistry for Life Sciences — produced 13 articles (WFC = 11.8) on fluorescent sensors, which have applications in bioimaging. Xu and Chen co-authored nine

articles (WFC = 8.4) on electrochemiluminescence, a biosensing technology for detecting cell surface proteins and DNA.

NJU is also productive in astrophysics, which makes up 15% of its fractional count (FC). However, owing to the down-weighting of astrophysics journals in the index, these publications contribute a WFC of only 6.9. Jilin Zhou and Zigao Dai from the school of astronomy and space science contribute the most to this field. Zhou co-authored four articles on planetary formation, while Dai contributed to three on gamma-ray bursts — extremely energetic explosions observed in distant galaxies.

Nanjing also has six smaller research universities and one institute of the Chinese Academy of Sciences (CAS) that each contribute 2–10% of the city's WFC. Southeast University (SEU) has the second largest output and is focused on the physical sciences, which make up two-thirds of its WFC. In 2013, the 112-year-old institution published 65 articles (WFC = 30.9), with Tiejun Cui, the vice president of the school of information science and engineering, being the most prolific contributor. Cui led 11 articles (WFC = 6.1) on transformation optics, a novel class of materials with potential use in stealth devices.

Nanjing Medical University (NJMU), founded in 1934, was one of the first institutions to offer postgraduate medical education

in China. In 2013, the university published 28 articles (WFC = 7.3), with life sciences research representing 81% of its output. It also has the highest proportion of papers in *Nature* and *Science* in the city, which comprise 4.6% of its WFC. NJMU's president, Hongbing Shen, is the most active contributor to the index, having led five genome-wide association studies (WFC = 1.4), all published in *Nature Genetics*.

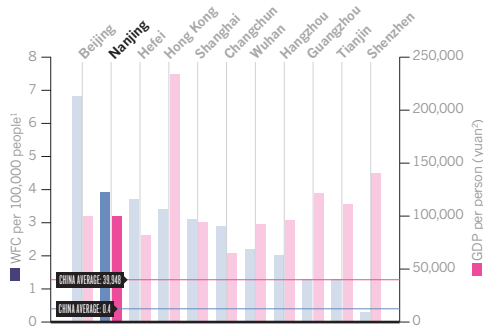
Nanjing is also the strongest city in China for astrophysics, which comprises 18% of its FC — ahead of Beijing (11%), Hefei (8%) and Hong Kong (5%). This knowledge base is largely due to the Purple Mountain Observatory (PMO), a CAS institute. Last year, PMO published 102 articles (WFC = 6.3), the majority from three contributors. Dejin Wu, the deputy director of the division of dark matter and space astronomy, published six articles on solar flares and coronal loops; Yizhong Fan published five articles on dark matter and gamma-ray bursts; and Xuefeng Wu contributed to seven articles on gamma-ray bursts.

PMO has a number of high-profile projects underway. "We are in the preparation stage of launching our own observation satellites into space, and a team of scientists will also be setting up an observatory in Antarctica," says Xuefeng Wu. "China's research capabilities in astrophysics have come a long way since the 1980s." ■

NANJING ANALYSIS

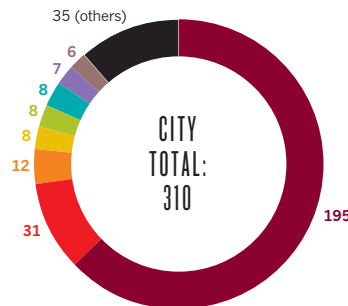
Nanjing data

Nanjing is second only to Beijing in terms of WFC per person, and in the top five for GDP per person.



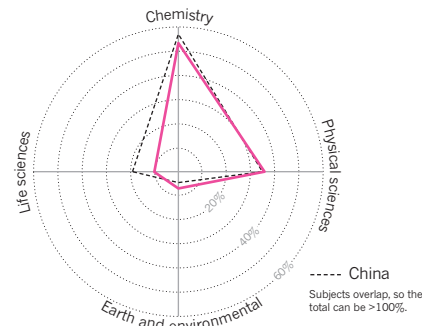
City WFC breakdown

Nanjing University dominates the city in terms of scientific output in the index.



City subject spread

The majority of Nanjing's research is in chemistry.



■ Nanjing University ■ Southeast University ■ Nanjing University of Technology ■ Nanjing University of Posts and Telecommunications ■ Nanjing University of Information Science and Technology ■ Nanjing Normal University ■ Nanjing Medical University ■ Purple Mountain Observatory*

*CAS institute
 1. 360doc.com; 2. cnpop.org; yuan = US\$0.16

Nature Index tables

The world's leading countries and institutions for high-quality science, ordered by weighted fractional count (WFC) for 2013. Also shown are the total number of articles, and the change in WFC from 2012. Articles are from the 68 natural science journals that comprise the Nature Index (see Guide to the Nature Index, page S94.)

TOP 100 COUNTRIES

2013	COUNTRY	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
1	United States	18,642.88	27,355	18,786.65	-0.8%
2	China	5,205.60	7,637	4,528.97	14.9%
3	Germany	4,076.97	8,669	4,038.30	1.0%
4	Japan	3,370.85	5,102	3,451.26	-2.3%
5	United Kingdom	3,290.35	7,373	3,259.46	0.9%
6	France	2,237.92	5,246	2,343.02	-4.5%
7	Canada	1,483.10	3,220	1,534.98	-3.4%
8	Spain	1,180.25	2,975	1,197.46	-1.4%
9	Switzerland	1,175.18	2,552	1,177.46	-0.2%
10	South Korea	1,150.52	1,953	1,193.02	-3.6%
11	Italy	1,075.12	3,089	1,084.27	-0.8%
12	Australia	943.94	2,448	864.60	9.2%
13	India	851.76	1,380	737.31	15.5%
14	Netherlands	763.24	2,221	765.03	-0.2%
15	Taiwan	543.18	937	595.99	-8.9%
16	Sweden	502.00	1,304	476.73	5.3%
17	Singapore	483.20	833	464.72	4.0%
18	Israel	472.35	1,008	520.05	-9.2%
19	Russia	344.26	1,058	298.26	15.4%
20	Belgium	327.25	1,019	347.22	-5.8%
21	Denmark	298.21	934	301.77	-1.2%
22	Austria	280.61	797	268.85	4.4%
23	Brazil	233.81	670	199.31	17.3%
24	Poland	216.35	689	176.78	22.4%
25	Finland	193.37	586	189.15	2.2%
26	Portugal	124.87	419	114.68	8.9%
27	Norway	123.62	371	142.00	-12.9%
28	New Zealand	118.93	307	127.84	-7.0%
29	Czech Republic	118.43	378	117.83	0.5%
30	Ireland	117.72	336	167.46	-29.7%
31	Argentina	105.66	304	93.08	13.5%
32	Greece	90.15	337	107.55	-16.2%
33	South Africa	81.81	441	58.02	41.0%
34	Mexico	77.08	362	73.52	4.8%
35	Saudi Arabia	76.64	288	52.52	45.9%
36	Chile	75.52	717	71.96	5.0%
37	Iran	58.55	121	71.45	-18.1%
38	Turkey	57.07	202	58.79	-2.9%
39	Hungary	54.92	228	78.88	-30.4%
40	Slovenia	43.20	118	34.85	24.0%
41	Ukraine	28.58	158	35.57	-19.7%
42	Thailand	25.89	89	25.51	1.5%

2013	COUNTRY	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
43	Croatia	22.86	105	25.97	-12.0%
44	Pakistan	18.03	63	20.61	-12.5%
45	Romania	17.47	75	21.31	-18.0%
46	Malaysia	14.14	56	5.83	142.7%
47	Serbia	13.95	59	14.84	-6.0%
48	Iceland	13.90	85	15.74	-11.7%
49	Estonia	13.27	68	16.78	-20.9%
50	Slovakia	12.57	65	16.13	-22.0%
51	Egypt	12.04	80	7.32	64.6%
52	Lithuania	11.26	36	7.94	41.7%
53	Cyprus	10.90	25	12.89	-15.5%
54	Luxembourg	10.55	31	5.16	104.5%
55	Colombia	9.62	48	5.84	64.6%
56	Bulgaria	9.49	69	7.30	30.0%
57	Vietnam	8.23	41	6.85	20.1%
58	Armenia	7.98	39	7.30	9.3%
59	United Arab Emirates	7.08	27	2.56	176.7%
60	Panama	6.75	29	8.42	-19.8%
61	Kenya	5.36	24	5.13	4.4%
62	Uruguay	5.21	15	2.93	77.7%
63	Cuba	4.86	16	7.26	-33.0%
64	Indonesia	4.28	22	5.39	-20.6%
65	Peru	4.22	21	3.75	12.5%
66	Qatar	3.96	41	4.01	-1.3%
67	Belarus	3.95	23	6.05	-34.8%
68	Morocco	3.46	21	2.97	16.5%
69	Moldova	3.35	12	3.19	4.8%
70	Lebanon	3.34	17	3.26	2.6%
71	Philippines	3.33	19	2.70	23.5%
72	Latvia	3.18	11	4.04	-21.3%
73	Kuwait	3.17	9	0.43	634.9%
74	Tanzania	3.07	15	0.88	247.5%
75	Kazakhstan	2.85	9	7.20	-60.5%
76	Tunisia	2.84	16	4.52	-37.2%
77	Ecuador	2.48	15	3.29	-24.6%
78	Georgia	2.45	33	3.57	-31.4%
79	Bangladesh	2.28	11	1.23	84.8%
80	Venezuela	1.83	21	4.70	-61.1%
81	Costa Rica	1.49	9	2.11	-29.4%
82	Ethiopia	1.44	10	1.09	32.5%
83	Oman	1.29	6	1.72	-25.1%
84	Tajikistan	1.23	6	0.13	821.6%
85	Greenland	1.22	9	0.12	942.4%
86	Cambodia	1.16	5	0.69	67.4%
87	Algeria	1.10	7	3.51	-68.7%
88	Monaco	1.00	1	1.79	-44.2%
89	Nigeria	0.97	10	0.57	70.7%
90	Barbados	0.92	6	0.00	30144.8%
91	Papua New Guinea	0.91	5	1.04	-12.2%
92	Nepal	0.82	5	1.07	-23.4%
93	Congo	0.82	7	0.12	585.5%
94	Kyrgyzstan	0.81	4	-	-
95	Cameroon	0.81	10	0.60	35.4%
96	Iraq	0.74	9	1.70	-56.5%
97	Botswana	0.71	5	0.38	85.2%
98	Sri Lanka	0.70	7	1.51	-53.6%
99	Mongolia	0.62	7	0.94	-33.4%
100	Jordan	0.60	4	1.58	-61.8%

TOP 200 INSTITUTIONS

2013	INSTITUTION	COUNTRY	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
1	Chinese Academy of Sciences (CAS)	China	1,209.46	2,661	1,119.75	8.0%
2	Harvard University	United States	852.12	2,555	904.46	-5.8%
3	Max Planck Society	Germany	728.64	3,023	678.20	7.4%
4	French National Centre for Scientific Research (CNRS)	France	720.62	4,585	718.24	0.3%
5	Stanford University	United States	552.93	1,253	516.78	7.0%
6	Massachusetts Institute of Technology (MIT)	United States	509.49	1,442	486.85	4.7%
7	The University of Tokyo	Japan	474.65	1,293	491.82	-3.5%
8	Helmholtz Association of German Research Centres	Germany	422.47	1,484	393.74	7.3%
9	University of Cambridge	United Kingdom	400.78	1,265	425.47	-5.8%
10	National Institutes of Health (NIH)	United States	390.96	801	386.30	1.2%
11	University of Oxford	United Kingdom	384.03	1,190	339.81	13.0%
12	University of California Berkeley (UC Berkeley)	United States	362.32	1,155	360.74	0.4%
13	University of California, San Diego (UC San Diego)	United States	345.50	873	342.81	0.8%
14	University of Michigan	United States	345.20	905	291.82	18.3%
15	Kyoto University	Japan	313.71	742	312.95	0.2%
16	Northwestern University	United States	298.02	609	294.36	1.2%
17	University of Pennsylvania	United States	296.19	671	241.87	22.5%
18	Yale University	United States	290.60	789	297.67	-2.4%
19	University of California Los Angeles (UCLA)	United States	286.59	768	318.68	-10.1%
20	California Institute of Technology (Caltech)	United States	281.90	1,216	269.89	4.5%
21	Swiss Federal Institute of Technology Zurich (ETH Zurich)	Switzerland	278.42	847	307.71	-9.5%
22	Peking University (PKU)	China	275.53	743	209.58	31.5%
23	Columbia University in the City of New York	United States	258.74	744	259.25	-0.2%
24	University of Washington	United States	254.74	692	299.79	-15.0%
25	University of Wisconsin-Madison	United States	251.46	652	263.40	-4.5%
26	The University of Texas at Austin (UT Austin)	United States	246.85	595	237.69	3.9%
27	Cornell University	United States	246.17	641	248.14	-0.8%
28	University of Toronto	Canada	242.41	736	262.52	-7.7%
29	Princeton University	United States	232.62	712	223.88	3.9%
30	University of Illinois at Urbana-Champaign	United States	228.61	507	229.51	-0.4%
31	The Johns Hopkins University (JHU)	United States	224.07	753	241.11	-7.1%
32	University of California San Francisco (UCSF)	United States	222.20	474	218.70	1.6%
33	Spanish National Research Council (CSIC)	Spain	220.63	1,553	230.82	-4.4%
34	Osaka University	Japan	219.88	534	261.31	-15.9%
35	Swiss Federal Institute of Technology in Lausanne (EPFL)	Switzerland	207.99	665	186.65	11.4%
36	University of California Santa Barbara (UCSB)	United States	196.36	537	227.84	-13.8%
37	Tsinghua University	China	194.87	474	177.74	9.6%
38	Nanjing University	China	194.57	391	168.10	15.7%
39	National University of Singapore (NUS)	Singapore	191.72	425	186.53	2.8%
40	The University of Chicago (UChicago)	United States	190.55	632	165.48	15.1%
41	Tohoku University	Japan	189.37	455	184.94	2.4%
42	Nanyang Technological University (NTU)	Singapore	187.38	336	178.16	5.2%
43	The Pennsylvania State University (Penn State)	United States	187.20	565	168.05	11.4%
44	Imperial College London	United Kingdom	185.60	668	165.14	12.4%
45	University College London (UCL)	United Kingdom	184.31	738	186.11	-1.0%
46	University of California Davis (UC Davis)	United States	183.99	492	168.74	9.0%
47	University of Minnesota	United States	178.83	449	193.68	-7.7%
48	The Scripps Research Institute (TSRI)	United States	178.38	328	193.05	-7.6%
49	University of Science and Technology of China (USTC)	China	175.73	427	147.75	18.9%

2013	INSTITUTION	COUNTRY	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
50	Duke University	United States	174.18	453	162.44	7.2%
51	Washington University in St. Louis (WUSTL)	United States	174.02	376	190.52	-8.7%
52	University of North Carolina at Chapel Hill (UNC)	United States	171.18	373	178.88	-4.3%
53	Russian Academy of Sciences (RAS)	Russia	167.66	879	158.29	5.9%
54	Institute of Physical and Chemical Research (RIKEN)	Japan	165.95	522	144.52	14.8%
55	University of Maryland, College Park (UMCP)	United States	159.00	675	161.42	-1.5%
56	Seoul National University (SNU)	South Korea	158.24	432	178.36	-11.3%
57	Ludwig Maximilian University of Munich (LMU)	Germany	154.14	571	147.63	4.4%
58	Rutgers, The State University of New Jersey	United States	153.88	454	158.52	-2.9%
59	University of Colorado Boulder (CU-Boulder)	United States	152.21	589	147.72	3.0%
60	Lawrence Berkeley National Laboratory (LBNL)	United States	151.89	705	149.60	1.5%
61	Weizmann Institute of Science	Israel	150.96	315	162.04	-6.8%
62	Zhejiang University (ZJU)	China	150.42	289	123.20	22.1%
63	National Research Council (CNR)	Italy	149.79	538	142.41	5.2%
64	University of Pittsburgh	United States	148.19	396	130.26	13.8%
65	Texas A&M University (TAMU)	United States	148.12	414	127.40	16.3%
66	University of California Irvine (UCI)	United States	147.86	452	141.49	4.5%
67	The Ohio State University (OSU)	United States	142.91	553	141.39	1.1%
68	New York University (NYU)	United States	140.07	402	147.54	-5.1%
69	Atomic Energy and Alternative Energies Commission (CEA)	France	138.77	1,088	152.50	-9.0%
70	McGill University	Canada	137.85	459	142.97	-3.6%
71	Georgia Institute of Technology	United States	137.43	293	146.77	-6.4%
72	Nagoya University	Japan	132.96	404	138.68	-4.1%
73	The University of British Columbia (UBC)	Canada	131.61	419	133.51	-1.4%
74	Fudan University	China	129.23	255	121.36	6.5%
75	Indian Institutes of Technology (IITs)	India	128.53	241	125.16	2.7%
76	University of Southern California (USC)	United States	127.44	277	127.69	-0.2%
77	Technical University Munich (TUM)	Germany	125.23	475	130.25	-3.9%
78	The University of Manchester	United Kingdom	124.80	494	117.89	5.9%
79	The University of Texas Southwestern Medical Center at Dallas	United States	124.11	233	126.26	-1.7%
80	University of Copenhagen (UCPH)	Denmark	117.29	547	25.39	361.9%
81	Los Alamos National Laboratory (LANL)	United States	116.13	382	131.73	-11.8%
82	Council of Scientific and Industrial Research (CSIR)	India	115.24	179	107.50	7.2%
83	Nankai University	China	113.77	190	85.85	32.5%
84	Argonne National Laboratory	United States	113.72	450	98.48	15.5%
85	University of Utah	United States	113.04	284	109.78	3.0%
86	Purdue University	United States	112.70	323	141.43	-20.3%
87	Leibniz Association	Germany	112.10	456	120.59	-7.0%
88	University of Bristol	United Kingdom	111.64	378	122.41	-8.8%
89	Utrecht University	Netherlands	109.83	464	109.99	-0.2%
90	The University of Edinburgh	United Kingdom	109.40	641	127.08	-13.9%
91	University of Geneva (UNIGE)	Switzerland	108.05	403	114.75	-5.8%
92	Emory University	United States	107.91	215	102.57	5.2%
93	Hokkaido University	Japan	105.93	240	113.38	-6.6%
94	Tokyo Institute of Technology	Japan	105.72	283	112.64	-6.1%
95	Heidelberg University	Germany	105.61	606	109.59	-3.6%
96	University of Florida (UF)	United States	105.48	415	136.74	-22.9%
97	University of Rochester	United States	104.57	289	87.30	19.8%
98	University of Zurich (UZH)	Switzerland	104.35	426	93.46	11.7%
99	Korea Advanced Institute of Science and Technology (KAIST)	South Korea	103.03	210	126.30	-18.4%
100	Vanderbilt University	United States	101.80	326	136.16	-25.2%

2013	INSTITUTION	COUNTRY	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
101	University of Alberta	Canada	101.29	252	99.24	2.1%
102	National Taiwan University (NTU)	Taiwan	101.23	291	96.64	4.8%
103	Boston University	United States	99.30	370	113.82	-12.8%
104	University of Göttingen	Germany	98.99	364	100.98	-2.0%
105	Wuhan University	China	98.80	154	74.27	33.0%
106	Jilin University	China	97.90	179	65.76	48.9%
107	National Aeronautics and Space Administration (NASA)	United States	97.17	978	84.62	14.8%
108	University of Münster (WWU)	Germany	96.69	213	87.80	10.1%
109	Shanghai Jiao Tong University (SJTU)	China	95.99	247	80.03	19.9%
110	The University of Queensland (UQ)	Australia	95.89	308	83.44	14.9%
111	Pierre and Marie Curie University (Paris 6)	France	95.28	1319	91.00	4.7%
112	The University of Sydney	Australia	95.07	474	71.15	33.6%
113	University of Würzburg	Germany	95.02	254	102.53	-7.3%
114	Monash University	Australia	94.69	328	90.99	4.1%
115	Australian National University (ANU)	Australia	94.09	424	85.39	10.2%
116	National Institute of Standards and Technology (NIST)	United States	91.79	286	89.31	2.8%
117	University of Leuven (KU Leuven)	Belgium	91.46	340	98.49	-7.1%
118	The Hebrew University of Jerusalem	Israel	91.29	245	107.24	-14.9%
119	University of Basel	Switzerland	87.67	227	69.70	25.8%
120	Oak Ridge National Laboratory (ORNL)	United States	87.20	283	84.20	3.6%
121	RWTH Aachen University	Germany	87.16	271	83.88	3.9%
122	University of Southampton	United Kingdom	86.68	338	70.04	23.8%
123	University of Notre Dame	United States	86.37	262	88.86	-2.8%
124	The University of Melbourne	Australia	85.79	386	87.15	-1.6%
125	Kyushu University	Japan	84.62	221	107.95	-21.6%
126	University of Erlangen-Nuremberg	Germany	84.58	248	77.00	9.8%
127	Indian Institute of Science (IISc)	India	84.14	132	70.88	18.7%
128	Durham University	United Kingdom	84.05	361	93.87	-10.5%
129	University of Hamburg	Germany	83.31	365	89.25	-6.7%
130	The Rockefeller University	United States	82.62	231	74.49	10.9%
131	Rice University	United States	82.53	227	96.48	-14.5%
132	National Institute for Material Science (NIMS)	Japan	81.79	182	92.60	-11.7%
133	Agency for Science, Technology and Research (A*STAR)	Singapore	81.62	240	86.25	-5.4%
134	Arizona State University	United States	81.20	216	80.87	0.4%
135	Uppsala University	Sweden	80.13	310	87.90	-8.8%
136	Academia Sinica	Taiwan	79.84	394	80.58	-0.9%
137	National Institute of Advanced Industrial Science and Technology (AIST)	Japan	79.53	203	105.78	-24.8%
138	Sun Yat-sen University	China	79.41	158	80.04	-0.8%
139	Iowa State University	United States	78.90	213	87.57	-9.9%
140	Stony Brook University	United States	78.90	284	86.44	-8.7%
141	The University of Arizona (UA)	United States	78.28	550	85.74	-8.7%
142	Aarhus University (AU)	Denmark	78.17	258	82.84	-5.6%
143	University of Bonn (Uni Bonn)	Germany	78.04	426	85.19	-8.4%
144	Tel Aviv University (TAU)	Israel	77.93	289	95.61	-18.5%
145	University of Virginia	United States	77.71	309	82.09	-5.3%
146	University of California Riverside (UCR)	United States	77.58	242	89.77	-13.6%
147	University of Tübingen	Germany	77.39	257	62.15	24.5%
148	Sichuan University	China	76.82	130	44.88	71.2%
149	Case Western Reserve University (CWRU)	United States	76.23	188	91.33	-16.5%
150	Baylor College of Medicine (BCM)	United States	76.10	187	66.26	14.8%

2013	INSTITUTION	COUNTRY	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
151	Xiamen University	China	76.02	142	77.84	-2.3%
152	University of Groningen	Netherlands	75.31	375	92.76	-18.8%
153	Memorial Sloan-Kettering Cancer Center (MSKCC)	United States	75.27	184	83.74	-10.1%
154	Pacific Northwest National Laboratory (PNNL)	United States	74.62	178	62.75	18.9%
155	Lund University	Sweden	74.45	252	72.77	2.3%
156	North Carolina State University	United States	74.43	183	51.18	45.4%
157	The University of Nottingham	United Kingdom	74.25	235	77.84	-4.6%
158	Stockholm University	Sweden	73.61	375	57.22	28.7%
159	Leiden University	Netherlands	73.07	509	82.19	-11.1%
160	University of Freiburg	Germany	72.80	242	82.12	-11.4%
161	University of Paris Sud (Paris 11)	France	72.32	604	71.02	1.8%
162	Korea University	South Korea	72.01	220	67.89	6.1%
163	University of Massachusetts Medical School (UMMS)	United States	71.99	149	69.80	3.1%
164	Indiana University Bloomington	United States	71.45	214	68.86	3.8%
165	Brown University	United States	71.43	199	78.32	-8.8%
166	University of London - King's College London	United Kingdom	71.42	214	66.57	7.3%
167	University of Chinese Academy of Sciences (UCAS)	China	71.18	434	64.84	9.8%
168	The University of Hong Kong (HKU)	China	70.43	149	50.45	39.6%
169	The University of New South Wales (UNSW)	Australia	70.14	224	59.18	18.5%
170	The University of Iowa	United States	70.08	258	78.52	-10.8%
171	Pohang University of Science and Technology (POSTECH)	South Korea	70.00	147	84.98	-17.6%
172	Lanzhou University	China	69.99	123	67.58	3.6%
173	Joseph Fourier University (UJF)	France	69.85	596	76.56	-8.8%
174	Delft University of Technology (TU Delft)	Netherlands	69.28	160	64.70	7.1%
175	National Institute for Health and Medical Research (INSERM)	France	68.84	604	71.37	-3.6%
176	University of Barcelona (UB)	Spain	68.73	420	70.73	-2.8%
177	Florida State University (FSU)	United States	68.73	224	80.98	-15.1%
178	University of Calgary	Canada	68.36	147	60.35	13.3%
179	Autonomous University of Madrid (UAM)	Spain	68.16	361	66.86	1.9%
180	Goethe University Frankfurt am Main	Germany	68.14	202	68.20	-0.1%
181	Technion-Israel Institute of Technology	Israel	67.90	194	68.75	-1.2%
182	Brookhaven National Laboratory (BNL)	United States	67.83	268	68.46	-0.9%
183	The University of Sheffield	United Kingdom	67.61	231	70.94	-4.7%
184	University of Glasgow	United Kingdom	67.24	407	66.69	0.8%
185	National Oceanic and Atmospheric Administration (NOAA)	United States	66.86	229	63.25	5.7%
186	Albert Einstein College of Medicine of Yeshiva University	United States	66.10	152	53.18	24.3%
187	The University of Texas MD Anderson Cancer Center	United States	65.99	181	61.19	7.9%
188	East China Normal University (ECNU)	China	65.56	123	35.55	84.4%
189	Soochow University	China	65.30	128	55.27	18.1%
190	National Tsing Hua University	Taiwan	65.16	150	95.15	-31.5%
191	University of Illinois at Chicago	United States	64.44	170	68.23	-5.6%
192	Medical Research Council (MRC)	United Kingdom	64.27	139	60.84	5.6%
193	Radboud University Nijmegen	Netherlands	63.37	438	61.55	3.0%
194	National Chiao Tung University (NCTU)	Taiwan	63.32	124	65.22	-2.9%
195	Michigan State University	United States	62.99	272	73.77	-14.6%
196	University of Montreal	Canada	62.93	233	65.66	-4.2%
197	University of Leeds	United Kingdom	62.81	212	57.71	8.8%
198	IBM Corporation	United States	61.90	117	58.73	5.4%
199	U.S. Navy	United States	61.63	259	69.85	-11.8%
200	Yonsei University	South Korea	61.62	198	77.64	-20.6%

TOP INSTITUTIONS: LIFE SCIENCES

2013	INSTITUTION	COUNTRY	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
1	Harvard University	United States	582.14	1,264	609.95	-4.6%
2	National Institutes of Health (NIH)	United States	366.19	755	360.57	1.6%
3	Stanford University	United States	244.26	464	226.04	8.1%
4	Chinese Academy of Sciences (CAS)	China	238.91	478	201.26	18.7%
5	Max Planck Society	Germany	209.85	585	220.13	-4.7%
6	University of California San Francisco (UCSF)	United States	205.95	436	206.55	-0.3%
7	Yale University	United States	190.09	370	178.69	6.4%
8	University of Pennsylvania	United States	187.98	387	165.47	13.6%
9	Massachusetts Institute of Technology (MIT)	United States	186.42	535	161.35	15.5%
10	University of California, San Diego (UC San Diego)	United States	177.45	398	183.78	-3.4%
11	French National Centre for Scientific Research (CNRS)	France	169.30	874	187.51	-9.7%
12	University of Cambridge	United Kingdom	150.50	363	147.77	1.8%
13	University of Michigan	United States	145.39	300	123.65	17.6%
14	The Johns Hopkins University (JHU)	United States	140.95	316	154.27	-8.6%
15	University of Oxford	United Kingdom	139.06	336	146.75	-5.2%
16	University of Washington	United States	138.26	333	161.40	-14.3%
17	Washington University in St. Louis (WUSTL)	United States	134.91	283	150.13	-10.1%
18	Cornell University	United States	134.60	303	117.69	14.4%
19	University of California Berkeley (UC Berkeley)	United States	127.05	268	121.10	4.9%
20	University of Toronto	Canada	126.95	304	145.67	-12.9%
21	The University of Tokyo	Japan	126.93	298	128.57	-1.3%
22	University of California Los Angeles (UCLA)	United States	124.95	285	157.03	-20.4%
23	Columbia University in the City of New York	United States	121.75	282	136.61	-10.9%
24	Duke University	United States	113.63	284	109.88	3.4%
25	University College London (UCL)	United Kingdom	113.22	304	123.73	-8.5%
26	The University of Texas Southwestern Medical Center at Dallas	United States	110.17	214	112.11	-1.7%
27	The Scripps Research Institute (TSRI)	United States	107.52	229	117.37	-8.4%
28	University of California Davis (UC Davis)	United States	96.79	204	76.38	26.7%
29	University of North Carolina at Chapel Hill (UNC)	United States	94.02	217	95.63	-1.7%
30	New York University (NYU)	United States	92.82	223	92.09	0.8%
31	The University of Chicago (UChicago)	United States	92.09	202	92.32	-0.2%
32	University of Wisconsin-Madison	United States	89.69	156	118.77	-24.5%
33	Kyoto University	Japan	88.62	208	76.16	16.4%
34	Northwestern University	United States	88.49	160	90.01	-1.7%
35	Helmholtz Association of German Research Centres	Germany	85.79	408	84.84	1.1%
36	University of Pittsburgh	United States	83.72	171	80.66	3.8%
37	McGill University	Canada	81.63	200	74.81	9.1%
38	Vanderbilt University	United States	74.78	190	93.81	-20.3%
39	Baylor College of Medicine (BCM)	United States	73.74	179	64.70	14.0%
40	Osaka University	Japan	72.73	160	80.62	-9.8%
41	The Rockefeller University	United States	72.41	153	65.70	10.2%
42	Emory University	United States	70.95	152	73.42	-3.4%
43	Institute of Physical and Chemical Research (RIKEN)	Japan	70.63	223	62.12	13.7%
44	University of Minnesota	United States	70.45	148	73.28	-3.9%
45	University of Massachusetts Medical School (UMMS)	United States	68.94	144	67.83	1.6%
46	Rutgers, The State University of New Jersey	United States	67.53	161	66.23	2.0%
47	Spanish National Research Council (CSIC)	Spain	65.91	247	68.06	-3.2%
48	Memorial Sloan-Kettering Cancer Center (MSKCC)	United States	65.88	163	68.89	-4.4%
49	Princeton University	United States	65.71	133	58.69	12.0%
50	University of Rochester	United States	64.85	125	39.37	64.7%

TOP INSTITUTIONS: EARTH AND ENVIRONMENTAL SCIENCES

2013	INSTITUTION	COUNTRY	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
1	Chinese Academy of Sciences (CAS)	China	68.50	133	44.78	53.0%
2	Helmholtz Association of German Research Centres	Germany	57.18	143	51.67	10.7%
3	National Oceanic and Atmospheric Administration (NOAA)	United States	56.26	182	53.37	5.4%
4	National Aeronautics and Space Administration (NASA)	United States	51.29	169	43.81	17.1%
5	French National Centre for Scientific Research (CNRS)	France	47.74	295	51.24	-6.8%
6	California Institute of Technology (Caltech)	United States	41.29	116	40.98	0.8%
7	University of Colorado Boulder (CU-Boulder)	United States	37.92	129	39.89	-4.9%
8	University of California, San Diego (UC San Diego)	United States	36.60	85	35.67	2.6%
9	U.S. Geological Survey (USGS)	United States	36.30	99	32.76	10.8%
10	University of Washington	United States	33.87	73	29.14	16.3%
11	The University of Tokyo	Japan	32.72	77	25.19	29.9%
12	Swiss Federal Institute of Technology Zurich (ETH Zurich)	Switzerland	28.62	82	32.97	-13.2%
13	Columbia University in the City of New York	United States	28.56	81	25.14	13.6%
14	University of Oxford	United Kingdom	27.68	65	18.52	49.5%
15	Stanford University	United States	26.03	57	12.67	105.4%
16	Woods Hole Oceanographic Institution (WHOI)	United States	25.97	61	20.60	26.0%
17	Japan Agency for Marine-Earth Science and Technology (JAMSTEC)	Japan	25.16	70	13.12	91.8%
18	National Center for Atmospheric Research (NCAR)	United States	23.95	82	22.45	6.7%
19	University of Wisconsin-Madison	United States	20.63	50	15.43	33.7%
20	University of Hawai'i at Mānoa (UH Mānoa)	United States	19.83	58	22.67	-12.5%
21	Texas A&M University (TAMU)	United States	19.22	47	13.66	40.6%
22	National Institute of Geophysics and Volcanology (INGV)	Italy	18.53	37	23.64	-21.6%
23	Utrecht University	Netherlands	17.54	46	13.25	32.4%
24	University of California Berkeley (UC Berkeley)	United States	17.47	53	20.22	-13.6%
25	The University of Texas at Austin (UT Austin)	United States	16.71	34	14.33	16.7%
26	Harvard University	United States	16.20	42	14.69	10.3%
27	University of Michigan	United States	16.14	37	13.41	20.3%
28	Colorado State University	United States	15.80	45	13.78	14.7%
29	Australian National University (ANU)	Australia	15.45	41	14.27	8.2%
30	Oregon State University (OSU)	United States	15.30	43	13.69	11.8%
31	Yale University	United States	15.02	28	10.90	37.8%
32	Spanish National Research Council (CSIC)	Spain	14.86	57	10.87	36.7%
33	University of California Santa Barbara (UCSB)	United States	14.52	35	7.90	83.8%
34	University of Cambridge	United Kingdom	14.46	31	23.28	-37.9%
35	The Pennsylvania State University (Penn State)	United States	14.45	40	22.55	-35.9%
36	University of California Davis (UC Davis)	United States	14.33	38	16.80	-14.7%
37	Max Planck Society	Germany	14.31	58	11.49	24.6%
38	The Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Australia	14.28	47	12.32	16.0%
39	University of Florida (UF)	United States	14.06	35	15.50	-9.3%
40	Pacific Northwest National Laboratory (PNNL)	United States	13.84	39	8.29	66.9%
41	Georgia Institute of Technology	United States	13.42	37	13.41	0.1%
42	University of California Los Angeles (UCLA)	United States	13.39	41	11.82	13.3%
43	Institute of Research for Development (IRD)	France	13.33	159	10.96	21.6%
44	Massachusetts Institute of Technology (MIT)	United States	12.99	44	12.61	2.9%
45	Met Office	United Kingdom	12.95	41	20.39	-36.5%
46	University of Maryland, College Park (UMCP)	United States	12.78	46	19.18	-33.4%
47	University of Leeds	United Kingdom	12.66	43	13.98	-9.4%
48	Imperial College London	United Kingdom	12.30	36	6.20	98.4%
49	University of Bristol	United Kingdom	12.25	40	16.63	-26.3%
50	Tohoku University	Japan	12.23	29	9.67	26.5%

TOP INSTITUTIONS: CHEMISTRY

2013	INSTITUTION	COUNTRY	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
1	Chinese Academy of Sciences (CAS)	China	679.85	1,148	654.95	3.8%
2	French National Centre for Scientific Research (CNRS)	France	229.20	905	239.62	-4.3%
3	Max Planck Society	Germany	203.77	429	196.43	3.7%
4	Massachusetts Institute of Technology (MIT)	United States	165.70	268	175.91	-5.8%
5	The University of Tokyo	Japan	160.72	263	168.11	-4.4%
6	Kyoto University	Japan	157.00	246	181.97	-13.7%
7	Northwestern University	United States	153.92	236	176.29	-12.7%
8	Stanford University	United States	145.62	226	151.50	-3.9%
9	Harvard University	United States	145.32	249	173.11	-16.1%
10	Peking University (PKU)	China	142.80	268	113.77	25.5%
11	University of California Berkeley (UC Berkeley)	United States	131.34	233	132.02	-0.5%
12	Nanyang Technological University (NTU)	Singapore	123.40	179	127.49	-3.2%
13	University of Oxford	United Kingdom	119.36	197	122.72	-2.7%
14	University of Illinois at Urbana-Champaign	United States	115.67	163	107.03	8.1%
15	Nanjing University	China	115.65	160	97.50	18.6%
16	The University of Texas at Austin (UT Austin)	United States	109.97	151	119.76	-8.2%
17	California Institute of Technology (Caltech)	United States	107.42	145	89.20	20.4%
18	Osaka University	Japan	106.33	187	129.45	-17.9%
19	University of Cambridge	United Kingdom	106.16	182	118.49	-10.4%
20	University of Wisconsin-Madison	United States	104.82	140	110.24	-4.9%
21	Swiss Federal Institute of Technology Zurich (ETH Zurich)	Switzerland	103.59	197	112.50	-7.9%
22	The Scripps Research Institute (TSRI)	United States	102.50	146	111.01	-7.7%
23	University of Science and Technology of China (USTC)	China	93.78	150	82.17	14.1%
24	University of Michigan	United States	92.58	143	95.67	-3.2%
25	Tsinghua University	China	92.00	169	90.79	1.3%
26	Helmholtz Association of German Research Centres	Germany	91.96	254	74.01	24.2%
27	University of California Los Angeles (UCLA)	United States	87.47	142	106.94	-18.2%
28	Zhejiang University (ZJU)	China	86.42	133	69.32	24.7%
29	Nankai University	China	86.25	124	59.50	44.9%
30	University of Toronto	Canada	84.26	118	94.22	-10.6%
31	National University of Singapore (NUS)	Singapore	83.81	134	70.94	18.1%
32	Swiss Federal Institute of Technology in Lausanne (EPFL)	Switzerland	80.57	150	89.16	-9.6%
33	Fudan University	China	79.94	122	71.59	11.7%
34	University of Pennsylvania	United States	79.89	120	62.05	28.8%
35	University of California, San Diego (UC San Diego)	United States	79.51	141	83.01	-4.2%
36	Council of Scientific and Industrial Research (CSIR)	India	79.46	110	70.56	12.6%
37	University of North Carolina at Chapel Hill (UNC)	United States	75.09	109	83.97	-10.6%
38	Indian Institutes of Technology (IITs)	India	74.77	102	76.14	-1.8%
39	Lawrence Berkeley National Laboratory (LBNL)	United States	74.57	217	67.39	10.7%
40	Jilin University	China	74.06	129	40.87	81.2%
41	University of Minnesota	United States	71.49	98	62.26	14.8%
42	Spanish National Research Council (CSIC)	Spain	70.70	231	77.53	-8.8%
43	Seoul National University (SNU)	South Korea	70.70	121	69.85	1.2%
44	Georgia Institute of Technology	United States	69.30	115	80.59	-14.0%
45	Sichuan University	China	68.45	92	33.30	105.5%
46	University of California Davis (UC Davis)	United States	68.12	111	68.23	-0.2%
47	The Pennsylvania State University (Penn State)	United States	67.92	108	55.20	23.0%
48	Nagoya University	Japan	66.82	101	74.00	-9.7%
49	Texas A&M University (TAMU)	United States	64.05	93	62.87	1.9%
50	University of Washington	United States	63.40	93	77.77	-18.5%

TOP INSTITUTIONS: PHYSICAL SCIENCES

2013	INSTITUTION	COUNTRY	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
1	Chinese Academy of Sciences (CAS)	China	412.33	1,234	399.92	3.1%
2	Max Planck Society	Germany	357.86	2,095	322.54	11.0%
3	French National Centre for Scientific Research (CNRS)	France	338.80	2,721	311.35	8.8%
4	Massachusetts Institute of Technology (MIT)	United States	228.44	741	216.24	5.6%
5	Helmholtz Association of German Research Centres	Germany	220.93	778	208.06	6.2%
6	Stanford University	United States	214.72	622	210.97	1.8%
7	The University of Tokyo	Japan	195.25	728	205.31	-4.9%
8	Harvard University	United States	195.03	1,144	223.46	-12.7%
9	University of Cambridge	United Kingdom	169.79	753	184.99	-8.2%
10	University of California Berkeley (UC Berkeley)	United States	139.93	692	151.20	-7.5%
11	Swiss Federal Institute of Technology Zurich (ETH Zurich)	Switzerland	133.54	496	141.69	-5.7%
12	University of Oxford	United Kingdom	125.31	634	92.75	35.1%
13	University of Michigan	United States	124.60	472	95.49	30.5%
14	Princeton University	United States	118.34	491	124.82	-5.2%
15	University of California Santa Barbara (UCSB)	United States	117.95	376	140.04	-15.8%
16	University of Illinois at Urbana-Champaign	United States	110.64	303	97.94	13.0%
17	Russian Academy of Sciences (RAS)	Russia	110.53	700	106.19	4.1%
18	Peking University (PKU)	China	105.35	388	86.35	22.0%
19	Swiss Federal Institute of Technology in Lausanne (EPFL)	Switzerland	103.24	440	93.83	10.0%
20	California Institute of Technology (Caltech)	United States	102.65	871	121.85	-15.8%
21	University of California Los Angeles (UCLA)	United States	100.93	363	97.65	3.4%
22	The University of Texas at Austin (UT Austin)	United States	100.49	359	99.60	0.9%
23	Tohoku University	Japan	96.67	259	94.84	1.9%
24	National Research Council (CNR)	Italy	93.39	327	89.99	3.8%
25	Atomic Energy and Alternative Energies Commission (CEA)	France	92.22	791	97.41	-5.3%
26	University of Maryland, College Park (UMCP)	United States	91.34	502	89.60	1.9%
27	Northwestern University	United States	90.80	278	88.16	3.0%
28	Kyoto University	Japan	90.46	306	83.76	8.0%
29	Spanish National Research Council (CSIC)	Spain	89.51	1089	100.59	-11.0%
30	Tsinghua University	China	88.12	262	87.16	1.1%
31	National University of Singapore (NUS)	Singapore	87.46	175	91.42	-4.3%
32	Los Alamos National Laboratory (LANL)	United States	84.90	287	96.15	-11.7%
33	Imperial College London	United Kingdom	79.10	365	63.01	25.5%
34	Columbia University in the City of New York	United States	78.16	319	65.23	19.8%
35	University of California, San Diego (UC San Diego)	United States	77.67	300	76.07	2.1%
36	The Pennsylvania State University (Penn State)	United States	77.16	348	64.52	19.6%
37	Lawrence Berkeley National Laboratory (LBNL)	United States	76.89	466	93.79	-18.0%
38	Cornell University	United States	74.62	264	96.13	-22.4%
39	Nanyang Technological University (NTU)	Singapore	72.04	140	69.62	3.5%
40	Georgia Institute of Technology	United States	71.81	155	76.58	-6.2%
41	University of Science and Technology of China (USTC)	China	71.66	242	63.63	12.6%
42	Argonne National Laboratory	United States	71.57	313	62.87	13.8%
43	National Institute of Standards and Technology (NIST)	United States	71.09	235	65.42	8.7%
44	University of Pennsylvania	United States	70.74	220	43.29	63.4%
45	University of Wisconsin-Madison	United States	66.95	351	64.69	3.5%
46	Seoul National University (SNU)	South Korea	66.32	248	75.07	-11.7%
47	Weizmann Institute of Science	Israel	65.64	174	76.86	-14.6%
48	Zhejiang University (ZJU)	China	65.02	136	44.46	46.2%
49	Nanjing University	China	64.94	193	68.24	-4.8%
50	Osaka University	Japan	62.47	222	77.35	-19.2%

TOP INSTITUTIONS IN NATURE AND SCIENCE JOURNALS

2013	INSTITUTION	COUNTRY	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
1	Harvard University	United States	76.34	199	87.25	-12.5%
2	Massachusetts Institute of Technology (MIT)	United States	45.67	125	35.67	28.0%
3	Stanford University	United States	38.30	87	33.48	14.4%
4	Max Planck Society	Germany	32.86	116	36.51	-10.0%
5	National Institutes of Health (NIH)	United States	27.57	60	22.87	20.6%
6	University of California San Francisco (UCSF)	United States	23.83	45	19.86	20.0%
7	University of California Berkeley (UC Berkeley)	United States	21.54	72	23.13	-6.8%
8	University of Cambridge	United Kingdom	20.65	51	18.92	9.1%
9	Columbia University in the City of New York	United States	19.90	61	9.07	119.4%
10	Chinese Academy of Sciences (CAS)	China	18.64	54	6.26	197.5%
11	The Scripps Research Institute (TSRI)	United States	18.43	38	15.00	22.8%
12	University of California, San Diego (UC San Diego)	United States	17.79	53	23.41	-24.0%
13	Yale University	United States	17.04	43	29.05	-41.4%
14	The University of Tokyo	Japan	15.55	40	10.28	51.3%
15	French National Centre for Scientific Research (CNRS)	France	15.01	117	15.44	-2.8%
16	University of Washington	United States	14.64	38	21.37	-31.5%
17	Swiss Federal Institute of Technology Zurich (ETH Zurich)	Switzerland	13.98	40	18.95	-26.2%
18	Princeton University	United States	13.50	36	13.74	-1.7%
19	University of Toronto	Canada	13.31	34	10.96	21.4%
20	Cornell University	United States	13.11	40	11.26	16.4%
21	University of Oxford	United Kingdom	12.93	45	14.21	-9.0%
22	University of California Los Angeles (UCLA)	United States	12.75	39	13.05	-2.3%
23	California Institute of Technology (Caltech)	United States	12.73	60	17.07	-25.4%
24	The Johns Hopkins University (JHU)	United States	12.33	35	12.05	2.3%
25	The University of Texas Southwestern Medical Center at Dallas	United States	11.79	19	13.20	-10.7%
26	The University of Chicago (UChicago)	United States	11.75	33	11.56	1.7%
27	The Rockefeller University	United States	11.45	23	13.48	-15.0%
28	Helmholtz Association of German Research Centres	Germany	10.75	64	10.75	0.0%
29	New York University (NYU)	United States	10.54	26	10.26	2.8%
30	University of Pennsylvania	United States	10.23	29	7.69	33.0%
31	Institute of Physical and Chemical Research (RIKEN)	Japan	9.62	24	6.80	41.4%
32	University of Colorado Boulder (CU-Boulder)	United States	9.40	35	7.55	24.4%
33	University of Michigan	United States	9.36	40	9.08	3.1%
34	Medical Research Council (MRC)	United Kingdom	9.24	16	7.62	21.3%
35	Swiss Federal Institute of Technology in Lausanne (EPFL)	Switzerland	9.16	26	7.00	30.7%
36	European Molecular Biology Laboratory (EMBL)	Germany	9.05	28	4.02	125.0%
37	National Aeronautics and Space Administration (NASA)	United States	8.77	49	6.84	28.3%
38	Northwestern University	United States	8.61	22	10.24	-15.9%
39	Washington University in St. Louis (WUSTL)	United States	8.41	23	12.74	-34.0%
40	University of North Carolina at Chapel Hill (UNC)	United States	8.38	19	8.42	-0.4%
41	Ludwig Maximilian University of Munich (LMU)	Germany	8.25	24	5.56	48.4%
42	University of California Davis (UC Davis)	United States	8.06	27	5.27	53.0%
43	University College London (UCL)	United Kingdom	7.69	34	7.45	3.2%
44	Kyoto University	Japan	7.48	28	7.91	-5.3%
45	Duke University	United States	7.14	26	11.37	-37.3%
46	The Pennsylvania State University (Penn State)	United States	7.10	20	3.69	92.2%
47	University of Massachusetts Medical School (UMMS)	United States	6.87	14	3.43	100.3%
48	University of Illinois at Urbana-Champaign	United States	6.82	14	7.54	-9.5%
49	Weizmann Institute of Science	Israel	6.67	12	6.45	3.5%
50	University of Minnesota	United States	6.45	19	8.78	-26.5%

Weighted fractional count (WFC) for each institution is shown to two decimal places only. When two or more institutions have the same WFC, their positions are determined by the thousandth place (or beyond).

These results are based on the most recent data available as of 11 September 2014. Owing to continual refinements of the data, the figures in the database are liable to change and might differ to those printed in the supplements.

Nature Index China tables

China's leading institutions for high-quality science, ordered by weighted fractional count (WFC) for 2013. Also shown are the total number of articles, and the change in WFC from 2012. Articles are from the 68 natural science journals that comprise the Nature Index (see 'A guide to the Nature Index', page S76).

TOP 200 INSTITUTIONS

2013	INSTITUTION	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
1	Chinese Academy of Sciences (CAS)	1,209.46	2,661	1,119.75	8.0%
2	Peking University (PKU)	275.53	743	209.58	31.5%
3	Tsinghua University	194.87	474	177.74	9.6%
4	Nanjing University	194.57	391	168.10	15.7%
5	University of Science and Technology of China (USTC)	175.73	427	147.75	18.9%
6	Zhejiang University (ZJU)	150.42	289	123.20	22.1%
7	Fudan University	129.23	255	121.36	6.5%
8	Nankai University	113.77	190	85.85	32.5%
9	Wuhan University	98.80	154	74.27	33.0%
10	Jilin University	97.90	179	65.76	48.9%
11	Shanghai Jiao Tong University (SJTU)	95.99	247	80.03	19.9%
12	Sun Yat-sen University	79.41	158	80.04	-0.8%
13	Sichuan University	76.82	130	44.88	71.2%
14	Xiamen University	76.02	142	77.84	-2.3%
15	University of Chinese Academy of Sciences (UCAS)	71.18	434	64.84	9.8%
16	The University of Hong Kong (HKU)	70.43	149	50.45	39.6%
17	Lanzhou University	69.99	123	67.58	3.6%
18	East China Normal University (ECNU)	65.56	123	35.55	84.4%
19	Soochow University	65.30	128	55.27	18.1%
20	Dalian University of Technology (DUT)	61.42	104	51.85	18.5%
21	East China University of Science and Technology (ECUST)	56.75	95	67.33	-15.7%
22	Hunan University (HNU)	54.57	80	50.22	8.7%
23	Hong Kong University of Science and Technology (HKUST)	54.45	103	55.07	-1.1%
24	Huazhong University of Science & Technology (HUST)	43.62	109	46.44	-6.1%
25	Xi'an Jiaotong University	42.98	93	30.27	42.0%
26	Tongji University	40.08	86	20.29	97.5%
27	Beijing Normal University	39.60	121	36.73	7.8%
28	The Chinese University of Hong Kong	39.39	82	40.20	-2.0%
29	Shandong University	39.17	94	63.60	-38.4%
30	City University of Hong Kong	36.51	72	37.02	-1.4%
31	Harbin Institute of Technology	36.22	73	19.30	87.6%
32	Tianjin University	33.73	66	38.57	-12.6%
33	Southeast University (SEU)	30.93	65	25.77	20.0%
34	South China University of Technology	30.89	60	32.05	-3.6%
35	Northeast Normal University	30.73	48	35.43	-13.3%
36	Fuzhou University	26.76	39	29.64	-9.7%
37	The Hong Kong Polytechnic University	25.94	69	26.09	-0.6%
38	University of Science and Technology Beijing (USTB)	25.79	46	16.71	54.3%
39	Chinese Academy of Medical Sciences & Peking Union Medical College (CAMS & PUMC)	24.63	75	23.32	5.6%
40	Beijing University of Chemical Technology	23.45	40	16.63	41.0%
41	Beijing Institute of Technology	20.11	40	15.20	32.3%
42	Beihang University (BUAA)	17.69	67	18.59	-4.8%

2013	INSTITUTION	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
43	Second Military Medical University	16.96	44	10.84	56.4%
44	Shanghai University	16.49	41	21.87	-24.6%
45	National University of Defense Technology	16.24	29	12.00	35.3%
46	Southwest University	16.11	33	18.37	-12.3%
47	Central China Normal University	15.93	43	25.10	-36.5%
48	BGI	15.34	51	10.56	45.2%
49	China Agricultural University	14.65	41	8.49	72.6%
50	China University of Geosciences	14.52	40	13.48	7.7%
51	Zhengzhou University	13.77	38	7.78	77.1%
52	Ocean University of China	13.06	35	13.20	-1.1%
53	Northwestern Polytechnical University (NWPUP)	12.90	18	1.82	610.4%
54	Chongqing University	12.90	22	3.00	329.9%
55	Xiangtan University	12.87	27	12.92	-0.4%
56	Hong Kong Baptist University (HKBU)	12.77	30	10.60	20.4%
57	Shandong Normal University (SDNU)	12.73	18	8.83	44.2%
58	Henan University	12.53	18	8.14	53.9%
59	Henan Normal University	12.42	27	9.95	24.9%
60	Northwest University	12.04	25	11.48	4.9%
61	University of Electronic Science and Technology of China (UESTC)	12.00	32	12.42	-3.3%
62	Nanjing University of Technology	11.92	28	16.16	-26.3%
63	Shaanxi Normal University	11.80	24	3.51	236.5%
64	National Institute of Biological Sciences (NIBS)	11.73	30	15.84	-26.0%
65	Yunnan University	11.39	27	7.36	54.9%
66	Hunan Normal University	11.12	24	10.10	10.1%
67	Shanxi University	10.82	18	16.00	-32.4%
68	Qingdao University of Science and Technology (QUST)	10.66	17	14.16	-24.7%
69	Huazhong Agricultural University	10.57	20	8.38	26.2%
70	Central South University (CSU)	10.15	35	6.46	57.3%
71	Nanchang University	10.06	20	3.69	172.3%
72	Northwest A & F University	9.90	21	3.57	177.1%
73	Hangzhou Normal University	9.52	36	6.55	45.3%
74	China Earthquake Administration	9.50	20	4.43	114.4%
75	Hefei University of Technology	8.97	18	3.48	157.9%
76	Jiangnan University	8.91	17	8.03	10.9%
77	Renmin University of China	8.89	20	10.51	-15.4%
78	Wuhan University of Technology	8.59	16	7.78	10.4%
79	Zhejiang Normal University (ZJNU)	8.44	21	6.04	39.9%
80	Nanjing University of Posts and Telecommunications (NUPT)	8.28	18	3.00	176.1%
81	Wenzhou University	8.05	15	5.17	55.7%
82	Zhejiang University of Technology	8.03	15	6.50	23.5%
83	Chinese Academy of Agricultural Sciences (CAAS)	7.87	30	4.90	60.7%
84	Hebei University	7.86	12	3.42	129.9%
85	Nanjing University of Information Science & Technology (NUIST)	7.86	30	6.67	17.9%
86	Nanjing Normal University	7.75	23	9.95	-22.1%
87	Beijing University of Technology	7.67	16	7.45	3.0%
88	Ningbo University	7.56	20	3.52	114.9%
89	China Academy of Engineering Physics (CAEP)	7.32	21	5.79	26.4%
90	Nanjing Medical University	7.27	28	7.97	-8.7%
91	China University of Petroleum (CUP)	7.15	16	5.25	36.0%
92	Shantou University	7.13	14	5.76	23.7%
93	South China Normal University	6.87	18	12.13	-43.4%
94	Tianjin Medical University (TMC)	6.73	26	5.70	18.1%
95	China Meteorological Administration (CMA)	6.69	26	4.50	48.6%
96	Heilongjiang University	6.67	14	5.46	22.1%
97	Capital Normal University	6.65	16	5.18	28.6%
98	Nanjing University of Aeronautics and Astronautics (NUAA)	6.58	10	15.17	-56.6%
99	North China Electric Power University (NCEPU)	6.50	13	2.16	201.3%
100	Nanjing University of Science and Technology (NUST)	6.43	18	7.77	-17.2%

2013	INSTITUTION	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
101	Donghua University	6.34	18	1.78	257.1%
102	Anhui Normal University	5.96	9	8.81	-32.4%
103	Beijing Computational Science Research Center (CSRC)	5.95	24	2.37	151.6%
104	State Oceanic Administration (SOA)	5.93	20	9.74	-39.1%
105	Changzhou University	5.93	13	0.56	967.3%
106	Third Military Medical University	5.91	25	3.81	55.0%
107	Jiangsu Normal University	5.61	11	2.17	158.8%
108	University of Jinan	5.57	6	4.58	21.5%
109	Tianjin University of Technology (TUT)	5.53	13	1.06	420.3%
110	Huaqiao University	5.51	11	2.48	121.7%
111	Hunan University of Science and Technology	5.06	8	-	-
112	Shenzhen University (SZU)	5.05	15	2.43	108.0%
113	Chinese Academy of Geological Sciences (CAGS)	5.00	16	4.11	21.6%
114	Zhejiang Sci-Tech University	4.94	9	3.37	46.9%
115	Huaibei Normal University	4.78	7	5.20	-8.2%
116	Yangzhou University	4.67	9	3.94	18.4%
117	Guangxi Normal University	4.60	12	10.13	-54.6%
118	Taiyuan University of Technology (TUT)	4.54	8	1.38	230.0%
119	Jinan University	4.31	21	9.90	-56.5%
120	Chongqing Medical University (CQMU)	4.31	14	2.60	66.0%
121	University of Shanghai for Science and Technology (USST)	4.15	11	2.25	84.6%
122	Beijing Jiaotong University	4.15	7	1.81	129.2%
123	Yanshan University	4.03	7	6.62	-39.2%
124	China University of Mining and Technology (CUMT)	3.95	8	3.19	24.0%
125	China Pharmaceutical University (CPU)	3.88	10	8.66	-55.2%
126	Fourth Military Medical University	3.80	14	5.17	-26.4%
127	Xidian University	3.78	8	3.52	7.5%
128	Shanghai Normal University (SHNU)	3.75	20	9.11	-58.8%
129	Anhui University	3.71	11	1.83	102.9%
130	Academy of Military Medical Sciences (AMMS)	3.67	13	4.74	-22.4%
131	Qufu Normal University (QFNU)	3.63	7	-	-
132	Hubei University	3.63	10	1.83	98.0%
133	Inner Mongolia University	3.61	9	0.74	386.1%
134	Fujian Normal University	3.48	11	3.84	-9.3%
135	Southern Medical University	3.47	12	1.78	94.3%
136	Jiangsu University	3.42	13	3.39	0.9%
137	Beijing University of Posts and Telecommunications (BUPT)	3.42	8	4.11	-16.9%
138	China Medical University (PRC)	3.32	16	1.08	207.0%
139	Linyi University	3.19	6	0.63	411.1%
140	Guizhou University	3.18	8	1.48	115.4%
141	Jiangxi Normal University	3.14	6	3.58	-12.3%
142	Hohai University	3.04	9	0.84	263.5%
143	Kunming University of Science and Technology	3.04	7	0.06	5,214.6%
144	Institute of Applied Physics and Computational Mathematics (IAPCM)	3.00	11	5.20	-42.3%
145	PLA University of Science and Technology	3.00	4	1.43	110.5%
146	Nantong University	2.99	9	2.12	41.2%
147	Capital Medical University (CMU)	2.98	16	2.28	30.5%
148	Henan University of Technology (HUT)	2.92	6	1.10	165.6%
149	Chinese Center for Disease Control and Prevention (China CDC)	2.91	17	2.46	18.4%
150	Qingdao University	2.89	8	2.05	40.9%

2013	INSTITUTION	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
151	Beijing Institute of Biotechnology	2.81	8	1.40	100.9%
152	Sichuan Agricultural University (SAU)	2.70	5	0.65	316.3%
153	Tianjin University of Science and Technology (TUST)	2.69	6	1.11	143.0%
154	Nanjing Agricultural University	2.59	11	3.69	-29.7%
155	Harbin Medical University (HMU)	2.58	11	1.73	48.7%
156	Chinese Academy of Meteorological Sciences (CAMS)	2.53	9	5.06	-50.0%
157	Harbin Engineering University (HEU)	2.52	5	0.44	467.3%
158	China Jiliang University	2.38	8	2.03	17.1%
159	Henan University of Science and Technology	2.37	9	0.43	454.2%
160	Liaocheng University (LCU)	2.29	6	0.80	185.0%
161	South University of Science and Technology of China (SUSTC)	2.24	22	0.62	260.8%
162	Nanjing National Laboratory of Microstructures	2.18	5	2.41	-9.5%
163	Xi'an University of Technology (XUT)	2.15	4	1.10	96.7%
164	Beijing Institute of Pharmacology and Toxicology	2.13	4	1.75	21.5%
165	Changchun University of Science and Technology (CUST)	2.12	8	2.63	-19.4%
166	Northeastern University	2.10	4	6.25	-66.4%
167	South China Agricultural University	2.02	6	1.68	20.6%
168	Guangzhou Medical University (GMU)	2.01	7	1.25	61.4%
169	Shanxi Datong University (SDU)	2.00	2	-	-
170	Dalian National Laboratory for Clean Energy (DNL)	1.99	4	-	-
171	Inner Mongolia University of Science and Technology	1.95	3	0.33	485.0%
172	Yunnan University of Nationalities	1.93	3	0.78	147.5%
173	Yunnan Normal University (YNNU)	1.91	11	0.79	143.5%
174	JiangXi University of Science and Technology (JUST)	1.91	4	-	-
175	China West Normal University (CWNU)	1.82	3	3.29	-44.7%
176	Shanghai Second Polytechnic University	1.81	3	-	-
177	Hebei Semiconductor Research Institute	1.77	2	0.30	489.7%
178	Anhui Medical University	1.77	13	1.92	-8.1%
179	Shenyang Normal University	1.75	6	0.64	172.2%
180	Nanchang Hangkong University (NCHU)	1.73	4	1.18	46.1%
181	Gannan Normal University	1.71	2	0.63	174.3%
182	Shanghai Institute of Technology	1.71	4	-	-
183	Fujian Medical University	1.71	4	1.08	57.7%
184	Guangzhou University (GU)	1.70	9	0.36	369.1%
185	Qingdao Agricultural University	1.68	5	-	-
186	Harbin University of Science and Technology (HUST)	1.67	5	-	-
187	Hebei University of Technology (HEBUT)	1.65	8	0.34	378.6%
188	Xinjiang University	1.59	11	2.61	-39.1%
189	Guilin University of Electronic Technology (GUET)	1.56	6	1.54	1.2%
190	Changshu Institute of Technology (CIT)	1.55	5	1.51	2.6%
191	Wuyi University	1.54	2	0.68	125.9%
192	The General Hospital of Chinese People's Liberation Army	1.54	11	1.58	-2.8%
193	Wenzhou Medical College	1.49	9	3.81	-60.9%
194	Guangdong University of Technology (GDUT)	1.48	7	0.36	307.9%
195	Guilin University of Technology	1.48	6	3.14	-53.0%
196	Guangdong Medical College	1.45	5	0.76	90.2%
197	Jiangxi Science & Technology Normal University	1.43	3	1.25	14.0%
198	Changchun University of Technology (CCUT)	1.42	4	0.40	255.7%
199	Hebei Normal University	1.40	12	1.86	-24.6%
200	Shandong Agricultural University (SDAU)	1.38	6	2.00	-31.3%

TOP INSTITUTIONS: LIFE SCIENCES

2013	INSTITUTION	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
1	Chinese Academy of Sciences (CAS)	238.91	478	201.26	18.7%
2	Peking University (PKU)	64.01	152	42.93	49.1%
3	Tsinghua University	30.65	87	34.02	-9.9%
4	University of Science and Technology of China (USTC)	30.21	62	14.98	101.7%
5	Zhejiang University (ZJU)	29.29	68	27.26	7.5%
6	Nankai University	27.74	54	20.83	33.2%
7	Shanghai Jiao Tong University (SJTU)	24.82	94	24.08	3.1%
8	Fudan University	24.72	68	29.10	-15.1%
9	Wuhan University	22.07	40	16.80	31.4%
10	Chinese Academy of Medical Sciences & Peking Union Medical College (CAMS & PUMC)	20.51	66	22.34	-8.2%
11	Lanzhou University	19.26	33	25.75	-25.2%
12	Sun Yat-sen University	17.74	55	18.81	-5.7%
13	East China Normal University (ECNU)	16.26	34	5.62	189.0%
14	Sichuan University	16.14	34	8.21	96.6%
15	BGI	14.82	49	10.09	46.9%
16	Second Military Medical University	14.77	38	9.38	57.5%
17	University of Chinese Academy of Sciences (UCAS)	14.46	84	9.84	46.9%
18	Soochow University	13.24	30	9.50	39.4%
19	Nanjing University	12.67	37	11.00	15.1%
20	The University of Hong Kong (HKU)	12.03	31	17.81	-32.4%
21	Tongji University	10.76	32	3.90	175.9%
22	Huazhong University of Science & Technology (HUST)	10.51	30	10.16	3.4%
23	Xiamen University	10.26	25	14.95	-31.4%
24	National Institute of Biological Sciences (NIBS)	9.77	26	15.22	-35.8%
25	East China University of Science and Technology (ECUST)	9.67	17	9.98	-3.1%
26	South China University of Technology	9.33	15	5.66	64.9%
27	China Agricultural University	9.16	28	6.06	51.1%
28	Northeast Normal University	8.99	17	4.06	121.4%
29	Shandong University	8.90	18	17.22	-48.3%
30	Hong Kong University of Science and Technology (HKUST)	8.48	15	14.31	-40.7%
31	Huazhong Agricultural University	7.61	15	5.32	43.1%
32	Dalian University of Technology (DUT)	6.51	14	5.18	25.7%
33	Chinese Academy of Agricultural Sciences (CAAS)	6.39	24	4.63	37.9%
34	Wenzhou University	5.90	8	2.61	126.3%
35	Nanjing Medical University	5.86	23	5.71	2.7%
36	Tianjin Medical University (TMC)	5.79	21	4.95	17.0%
37	Beijing Normal University	5.79	21	8.80	-34.2%
38	The Chinese University of Hong Kong	5.60	19	10.89	-48.6%
39	Tianjin University	5.06	8	3.59	40.8%
40	Central China Normal University	4.16	5	6.00	-30.7%
41	Third Military Medical University	4.12	19	2.81	46.6%
42	Jiangsu Normal University	4.03	5	0.75	437.8%
43	Zhengzhou University	3.89	11	2.42	60.7%
44	The Hong Kong Polytechnic University	3.89	14	2.74	41.7%
45	Northwest A & F University	3.70	12	1.83	102.9%
46	Fourth Military Medical University	3.42	12	4.17	-18.0%
47	Yunnan University	3.11	7	2.78	12.1%
48	Southern Medical University	3.10	10	1.45	113.6%
49	Huaqiao University	3.08	4	0.08	3,600.0%
50	Henan University	3.02	5	1.59	89.9%

TOP INSTITUTIONS: CHEMISTRY

2013	INSTITUTION	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
1	Chinese Academy of Sciences (CAS)	679.85	1,148	654.95	3.8%
2	Peking University (PKU)	142.80	268	113.77	25.5%
3	Nanjing University	115.65	160	97.50	18.6%
4	University of Science and Technology of China (USTC)	93.78	150	82.17	14.1%
5	Tsinghua University	92.00	169	90.79	1.3%
6	Zhejiang University (ZJU)	86.42	133	69.32	24.7%
7	Nankai University	86.25	124	59.50	44.9%
8	Fudan University	79.94	122	71.59	11.7%
9	Jilin University	74.06	129	40.87	81.2%
10	Sichuan University	68.45	92	33.30	105.5%
11	Wuhan University	63.22	84	42.23	49.7%
12	Xiamen University	59.87	95	58.89	1.7%
13	East China University of Science and Technology (ECUST)	53.04	84	64.81	-18.2%
14	Sun Yat-sen University	52.10	75	42.79	21.8%
15	Hunan University (HNU)	51.90	68	43.66	18.9%
16	Lanzhou University	50.35	74	47.97	5.0%
17	University of Chinese Academy of Sciences (UCAS)	47.85	229	42.67	12.1%
18	Dalian University of Technology (DUT)	47.16	75	42.72	10.4%
19	Shanghai Jiao Tong University (SJTU)	45.14	72	35.41	27.5%
20	East China Normal University (ECNU)	41.54	71	20.52	102.4%
21	The University of Hong Kong (HKU)	38.04	52	21.38	77.9%
22	Soochow University	34.75	70	37.77	-8.0%
23	South China University of Technology	28.89	51	26.26	10.0%
24	Fuzhou University	26.51	37	28.48	-6.9%
25	Hong Kong University of Science and Technology (HKUST)	25.71	44	29.59	-13.1%
26	Northeast Normal University	25.69	37	31.95	-19.6%
27	Tianjin University	25.43	47	26.03	-2.3%
28	The Chinese University of Hong Kong	21.18	34	22.56	-6.1%
29	Beijing University of Chemical Technology	20.35	31	14.71	38.3%
30	Shandong University	19.69	32	24.70	-20.3%
31	Tongji University	19.01	32	9.74	95.3%
32	City University of Hong Kong	18.84	36	15.60	20.8%
33	Beijing Institute of Technology	16.95	28	10.87	55.9%
34	The Hong Kong Polytechnic University	15.16	37	21.26	-28.7%
35	Harbin Institute of Technology	14.15	34	10.18	39.1%
36	Central China Normal University	13.30	18	21.92	-39.3%
37	Huazhong University of Science & Technology (HUST)	13.11	27	18.82	-30.4%
38	Southwest University	12.51	23	17.92	-30.2%
39	Shandong Normal University (SDNU)	11.33	13	7.73	46.6%
40	Zhengzhou University	11.29	20	6.61	70.9%
41	Chinese Academy of Medical Sciences & Peking Union Medical College (CAMS & PUMC)	11.22	22	7.36	52.5%
42	Nanjing University of Technology	11.04	24	15.67	-29.5%
43	Henan University	10.73	14	4.69	128.9%
44	Xi'an Jiaotong University	10.72	26	6.97	53.8%
45	Qingdao University of Science and Technology (QUST)	10.66	17	14.05	-24.1%
46	Beijing Normal University	10.56	23	12.71	-16.9%
47	Northwest University	10.29	17	7.18	43.3%
48	Southeast University (SEU)	9.78	21	11.15	-12.3%
49	Shaanxi Normal University	9.14	17	2.36	286.7%
50	Beihang University (BUAA)	8.60	22	8.94	-3.8%

TOP INSTITUTIONS: PHYSICAL SCIENCES

2013	INSTITUTION	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
1	Chinese Academy of Sciences (CAS)	412.33	1,234	399.92	3.1%
2	Peking University (PKU)	105.35	388	86.35	22.0%
3	Tsinghua University	88.12	262	87.16	1.1%
4	University of Science and Technology of China (USTC)	71.66	242	63.63	12.6%
5	Zhejiang University (ZJU)	65.02	136	44.46	46.2%
6	Nanjing University	64.94	193	68.24	-4.8%
7	Fudan University	40.00	92	41.84	-4.4%
8	Shanghai Jiao Tong University (SJTU)	34.39	104	29.26	17.5%
9	Xi'an Jiaotong University	32.74	56	24.34	34.5%
10	Jilin University	29.09	54	25.59	13.7%
11	Soochow University	27.31	45	22.45	21.6%
12	The University of Hong Kong (HKU)	25.81	70	15.56	65.9%
13	Huazhong University of Science & Technology (HUST)	25.28	61	26.04	-2.9%
14	Nankai University	23.56	46	17.53	34.4%
15	Harbin Institute of Technology	22.37	40	9.59	133.3%
16	Hong Kong University of Science and Technology (HKUST)	22.11	49	18.87	17.2%
17	Sun Yat-sen University	21.84	40	21.84	0.0%
18	University of Science and Technology Beijing (USTB)	21.29	38	11.55	84.4%
19	City University of Hong Kong	20.40	44	24.73	-17.5%
20	Southeast University (SEU)	20.02	42	14.59	37.2%
21	Beijing Normal University	19.47	63	15.69	24.1%
22	Dalian University of Technology (DUT)	18.98	35	8.83	114.8%
23	Wuhan University	18.52	37	17.49	5.9%
24	East China Normal University (ECNU)	17.17	37	13.07	31.3%
25	University of Chinese Academy of Sciences (UCAS)	16.51	158	17.51	-5.7%
26	National University of Defense Technology	16.16	28	11.98	34.8%
27	Shandong University	14.13	49	28.93	-51.2%
28	Tongji University	13.22	25	7.70	71.7%
29	Lanzhou University	13.15	30	14.36	-8.4%
30	The Chinese University of Hong Kong	13.12	30	11.06	18.6%
31	Xiamen University	12.86	35	11.09	15.9%
32	Northwestern Polytechnical University (NWPU)	11.74	16	1.27	826.8%
33	University of Electronic Science and Technology of China (UESTC)	11.41	26	12.16	-6.2%
34	Beihang University (BUAA)	10.08	50	12.89	-21.8%
35	Tianjin University	9.98	23	14.49	-31.1%
36	The Hong Kong Polytechnic University	9.80	26	9.24	6.0%
37	Chongqing University	9.50	17	2.00	374.8%
38	Shanghai University	8.28	25	9.82	-15.7%
39	Henan Normal University	7.91	21	3.60	119.9%
40	Beijing Institute of Technology	7.84	21	7.10	10.5%
41	Sichuan University	7.74	25	9.90	-21.8%
42	East China University of Science and Technology (ECUST)	6.99	15	1.61	333.7%
43	Shanxi University	6.06	12	8.06	-24.8%
44	Wuhan University of Technology	5.78	11	4.09	41.3%
45	North China Electric Power University (NCEPU)	5.54	10	2.09	164.7%
46	Beijing University of Technology	5.46	10	6.10	-10.5%
47	Xiangtan University	5.39	14	5.76	-6.5%
48	China Academy of Engineering Physics (CAEP)	5.36	14	4.89	9.6%
49	Beijing Computational Science Research Center (CSRC)	5.13	20	2.03	152.5%
50	Ningbo University	5.07	14	3.52	44.2%

TOP INSTITUTIONS: EARTH AND ENVIRONMENTAL SCIENCES

2013	INSTITUTION	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
1	Chinese Academy of Sciences (CAS)	68.50	133	44.78	53.0%
2	China Earthquake Administration	9.50	20	4.27	122.3%
3	China University of Geosciences	9.40	20	7.80	20.6%
4	Ocean University of China	9.35	23	7.92	18.1%
5	Nanjing University	9.33	18	2.31	304.2%
6	China Meteorological Administration	6.52	23	4.32	51.1%
7	University of Science and Technology of China (USTC)	6.52	15	2.32	180.5%
8	Nanjing University of Information Science & Technology (NUIST)	6.30	22	6.59	-4.5%
9	Wuhan University	5.93	12	3.93	50.8%
10	Beijing Normal University	5.76	19	3.70	55.7%
11	Peking University (PKU)	5.61	16	6.00	-6.5%
12	State Oceanic Administration (SOA)	5.18	14	9.74	-46.9%
13	Lanzhou University	5.18	11	3.21	61.4%
14	Hong Kong University of Science and Technology (HKUST)	4.54	8	2.29	98.2%
15	Chinese Academy of Geological Sciences (CAGS)	3.77	12	3.96	-4.6%
16	University of Chinese Academy of Sciences (UCAS)	2.96	20	3.75	-21.1%
17	PLA University of Science and Technology	2.80	3	1.43	96.5%
18	Chinese Academy of Meteorological Sciences (CAMS)	2.53	9	4.89	-48.3%
19	Tsinghua University	2.46	5	0.11	2,083.4%
20	Sun Yat-sen University	2.29	10	2.90	-21.3%
21	The Hong Kong Polytechnic University	2.25	5	0.96	134.2%
22	Zhejiang University (ZJU)	1.88	5	1.63	15.2%
23	Xiamen University	1.80	6	2.21	-18.6%
24	Hohai University	1.44	5	0.84	71.6%
25	The Chinese University of Hong Kong	1.15	4	2.33	-50.9%

TOP INSTITUTIONS IN NATURE AND SCIENCE

2013	INSTITUTION	WFC	ARTICLE COUNT	2012 WFC	2012-2013 CHANGE IN WFC
1	Chinese Academy of Sciences (CAS)	18.64	54	6.26	197.5%
2	Tsinghua University	5.43	12	5.56	-2.2%
3	Peking University (PKU)	4.10	14	3.56	15.2%
4	Chinese Academy of Agricultural Sciences (CAAS)	2.84	7	0.74	282.8%
5	BGI	1.78	7	1.33	33.6%
6	Zhejiang University (ZJU)	1.70	7	0.53	221.1%
7	University of Science and Technology of China (USTC)	1.69	8	2.13	-20.8%
8	Chinese Center for Disease Control and Prevention (China CDC)	1.27	6	-	-
9	China Agricultural University	1.17	6	0.32	269.6%
10	National Institute of Biological Sciences, (NIBS)	1.12	5	2.60	-56.8%
11	Tongji University	1.11	5	0.06	1,717.6%
12	Linyi University	1.05	3	-	-
13	Chinese Academy of Geological Sciences (CAGS)	0.98	2	0.10	876.9%
14	The University of Hong Kong (HKU)	0.82	5	0.23	263.4%
15	Yunnan University	0.80	2	0.38	113.3%
16	Fudan University	0.76	3	0.42	81.8%
17	Yanshan University	0.73	1	-	-
18	Shantou University	0.67	2	-	-
19	Shenyang Normal University	0.58	2	0.17	250.0%
20	Dalian University of Technology (DUT)	0.55	3	0.02	2,326.2%
21	Southeast University (SEU)	0.55	1	0.29	90.9%
22	University of Chinese Academy of Sciences (UCAS)	0.50	5	0.41	24.4%
23	Shandong Tianyu Natural History Museum	0.49	3	-	-
24	China University of Petroleum (CUP)	0.48	1	-	-
25	China Medical University (PRC)	0.43	1	0.13	242.9%

Weighted fractional count (WFC) for each institution is shown to two decimal places only. When two or more institutions have the same WFC, their positions are determined by the thousandth place (or beyond).

These results are based on the most recent data available as of 11 September 2014. Owing to continual refinements of the data, the figures in the database are liable to change and might differ to those printed in the supplements.