

NATURE INDEX TABLES

Tables are calculated based on collaboration score, which is the sum of the fractional count (FC) for collaborative papers involving the named country and each of its partner countries.

TOP 100 COUNTRIES BY COLLABORATION SCORE

2014	COUNTRY	WEIGHTED COLLABORATION SCORE	COLLABORATION SCORE
1	United States	29,442	37,042
2	Germany	13,348	17,690
3	United Kingdom	12,111	16,258
4	France	8,289	11,318
5	China	8,830	9,713
6	Italy	4,588	7,188
7	Spain	4,333	6,476
8	Japan	5,241	6,292
9	Canada	4,870	6,105
10	Australia	4,009	5,561
11	Switzerland	4,619	5,390
12	Netherlands	3,606	5,064
13	Sweden	2,695	3,299
14	South Korea	2,445	2,845
15	Belgium	1,942	2,657
16	Denmark	1,874	2,534
17	Russia	1,911	2,428
18	Chile	771	2,237
19	Austria	1,610	1,997
20	Israel	1,465	1,781
21	India	1,343	1,745
22	Brazil	1,054	1,517
23	Singapore	1,506	1,506
24	Poland	992	1,446
25	Finland	1,106	1,431
26	Taiwan	1,042	1,385
27	Portugal	758	1,020
28	Norway	936	993
29	South Africa	557	962
30	Saudi Arabia	805	887
31	Mexico	484	858
32	Czech Republic	601	773
33	Ireland	606	736
34	Greece	480	688
35	Argentina	499	682
36	New Zealand	560	661
37	Hungary	510	631
38	Turkey	353	446
39	Ukraine	277	407
40	Estonia	229	267
41	Slovenia	197	241
42	Croatia	177	240
43	Thailand	194	220
44	Iran	173	220
45	Egypt	191	200
46	Romania	148	174
47	Iceland	141	171
48	Bulgaria	101	155
49	Slovakia	109	145
50	Colombia	126	142
51	Lithuania	84	131
52	Malaysia	122	124
53	United Arab Emirates	99	114
54	Panama	107	107
55	Serbia	75	103
56	Peru	90	90
57	Qatar	60	81
58	Venezuela	50	81
59	Luxembourg	79	79
60	Indonesia	78	78
61	Pakistan	69	78
62	Kenya	77	77
63	Vietnam	62	74
64	Armenia	51	70
65	Costa Rica	67	68
66	Cyprus	59	63
67	Ecuador	57	58
68	Georgia	23	56
69	Uruguay	47	49
70	Morocco	43	46
71	Belarus	45	45
72	Algeria	34	44
73	Vatican City State (Holy See)	10	40
74	Philippines	39	39
75	Bangladesh	34	34
76	Lebanon	30	34
77	Uganda	33	33
78	Bolivia	32	32
79	Latvia	28	32
80	Tunisia	25	29
81	Iraq	23	28
82	Cameroon	27	27
83	Uzbekistan	16	27
84	Moldova	26	26
85	Cuba	23	25
86	Nepal	23	23
87	Sri Lanka	21	23
88	Tanzania	21	21
89	Congo	20	20
90	Jordan	20	20
91	Kazakhstan	17	20
92	Oman	17	19
93	Greenland	19	19
94	Nigeria	16	19
95	Kuwait	16	18
96	Benin	16	16
97	Macedonia	15	16
98	Palestine	16	16
99	Mongolia	15	15
100	Ethiopia	15	15

For more information on collaboration score and other metrics, see page S83.

TOP 100 INSTITUTIONS BY COLLABORATION SCORE

2014	INSTITUTION	COUNTRY	WEIGHTED COLLABORATION SCORE	COLLABORATION SCORE
1	French National Centre for Scientific Research (CNRS)	France	6,458	8,367
2	Max Planck Society	Germany	3,168	5,054
3	Chinese Academy of Sciences (CAS)	China	3,583	4,060
4	Harvard University	United States	3,124	3,975
5	Spanish National Research Council (CSIC)	Spain	1,946	2,950
6	Helmholtz Association of German Research Centres	Germany	2,569	2,684
7	National Institute for Astrophysics (INAF)	Italy	495	2,263
8	University of Cambridge	United Kingdom	1,564	2,126
9	Massachusetts Institute of Technology (MIT)	United States	1,823	2,054
10	Pierre and Marie Curie University (UPMC) - Paris 6	France	1,371	1,953
11	California Institute of Technology (Caltech)	United States	976	1,928
12	University of California Berkeley (UC Berkeley)	United States	1,372	1,848
13	University of Oxford	United Kingdom	1,505	1,817
14	National Aeronautics and Space Administration (NASA)	United States	759	1,792
15	Stanford University (SU)	United States	1,457	1,767
16	The University of Tokyo (UTokyo)	Japan	1,376	1,716
17	Atomic Energy and Alternative Energies Commission (CEA)	France	1,284	1,684
18	Russian Academy of Sciences (RAS)	Russia	1,360	1,624
19	Paris Diderot University (Paris 7)	France	974	1,552
20	Swiss Federal Institute of Technology Zurich (ETH Zurich)	Switzerland	1,229	1,414
21	University College London (UCL)	United Kingdom	1,139	1,408
22	Columbia University in the City of New York (CU)	United States	1,053	1,269
23	Peking University (PKU)	China	1,130	1,265
24	Yale University	United States	1,015	1,264
25	The University of Edinburgh	United Kingdom	912	1,237
26	Imperial College London (ICL)	United Kingdom	1,133	1,220
27	Lawrence Berkeley National Laboratory (LBNL)	United States	1,071	1,216
28	Smithsonian Institution	United States	390	1,211
29	University of Toronto (U of T)	Canada	986	1,182
30	University of Washington (UW)	United States	983	1,150
31	National Institutes of Health (NIH)	United States	1,143	1,143
32	University of California, San Diego (UC San Diego)	United States	1,054	1,134
33	University of Maryland, College Park (UMCP)	United States	837	1,123
34	The Johns Hopkins University (JHU)	United States	816	1,110
35	University of Michigan (U-M)	United States	818	1,104
36	The University of Chicago (UChicago)	United States	817	1,088
37	Heidelberg University (Uni Heidelberg)	Germany	770	1,068
38	University of Copenhagen (UCPH)	Denmark	798	1,060
39	European Southern Observatory (ESO)	Germany	229	1,042
40	Joseph Fourier University (JJF)	France	792	1,007
41	National Institute for Health and Medical Research (INSERM)	France	1,006	1,006
42	Institute of Physical and Chemical Research (RIKEN)	Japan	963	1,001
43	Leibniz Association	Germany	743	995
44	National Research Council (CNR)	Italy	947	972
45	University of California Los Angeles (UCLA)	United States	841	972
46	Swiss Federal Institute of Technology in Lausanne (EPFL)	Switzerland	918	960
47	Ludwig Maximilian University of Munich (LMU)	Germany	772	958
48	University of Barcelona (UB)	Spain	727	939
49	Cornell University	United States	806	939
50	Kyoto University	Japan	774	909

TOP 100 INSTITUTIONS BY COLLABORATION SCORE

2014	INSTITUTION	COUNTRY	WEIGHTED COLLABORATION SCORE	COLLABORATION SCORE
51	University of Paris Sud (Paris 11)	France	788	903
52	École Normale Supérieure (ENS)	France	676	887
53	The University of Manchester (UoM)	United Kingdom	696	879
54	University of California Santa Cruz (UCSC)	United States	488	878
55	The University of Arizona (Arizona)	United States	471	876
56	Princeton University	United States	643	873
57	University of Wisconsin-Madison (UW-Madison)	United States	739	868
58	The Pennsylvania State University (Penn State)	United States	524	859
59	Aix-Marseille University (AMU)	France	565	857
60	The Ohio State University (OSU)	United States	620	854
61	University of Glasgow	United Kingdom	679	836
62	University of Padova (UNIPD)	Italy	660	829
63	The University of Sydney (USYD)	Australia	529	825
64	University of Amsterdam (UvA)	Netherlands	603	816
65	University of Bologna (UNIBO)	Italy	639	810
66	Autonomous University of Barcelona (UAB)	Spain	609	801
67	Sapienza University of Rome	Italy	730	798
68	Northwestern University (NU)	United States	730	792
69	Australian National University (ANU)	Australia	424	784
70	Leiden University	Netherlands	369	779
71	University of Colorado Boulder (CU-Boulder)	United States	583	777
72	University of Bonn (Uni Bonn)	Germany	538	776
73	Tsinghua University (TH)	China	752	771
74	The University of Melbourne (UniMelb)	Australia	650	758
75	Osaka University	Japan	710	752
76	Technical University Munich (TUM)	Germany	686	751
77	University of Pennsylvania (Penn)	United States	686	740
78	University of Geneva (UNIGE)	Switzerland	516	739
79	Institute of Research for Development (IRD)	France	578	735
80	Science and Technology Facilities Council (STFC)	United Kingdom	537	735
81	University of Illinois at Urbana-Champaign (UIUC)	United States	647	728
82	Duke University	United States	724	727
83	Academia Sinica	Taiwan	483	726
84	Argonne National Laboratory (ANL)	United States	676	723
85	The University of Texas at Austin (UT Austin)	United States	508	721
86	Paris Observatory	France	195	720
87	University of California Santa Barbara (UCSB)	United States	589	720
88	The University of British Columbia (UBC)	Canada	589	704
89	The University of Warwick (Warwick)	United Kingdom	505	697
90	Utrecht University (UU)	Netherlands	662	692
91	University of Science and Technology of China (USTC)	China	630	690
92	University of Toulouse	France	510	687
93	University of Groningen (RUG)	Netherlands	466	687
94	McGill University	Canada	571	678
95	University of Minnesota (UMN)	United States	574	675
96	Space Telescope Science Institute (STScI)	United States	147	668
97	Autonomous University of Madrid (UAM)	Spain	525	665
98	Polish Academy of Sciences (PAS)	Poland	496	665
99	Radboud University Nijmegen (RU)	Netherlands	530	659
100	University of Hawai'i at Manoa (UH Mānoa)	United States	331	658

TOP 50 INSTITUTIONS BY COLLABORATION SCORE IN CHEMISTRY

2014	INSTITUTION	COUNTRY	WEIGHTED COLLABORATION SCORE	COLLABORATION SCORE
1	Chinese Academy of Sciences (CAS)	China	1,514	1,514
2	French National Centre for Scientific Research (CNRS)	France	1,370	1,370
3	Max Planck Society	Germany	545	545
4	Peking University (PKU)	China	422	422
5	Spanish National Research Council (CSIC)	Spain	373	373
6	Helmholtz Association of German Research Centres	Germany	370	370
7	University of California Berkeley (UC Berkeley)	United States	368	368
8	National Research Council (CNR)	Italy	366	366
9	Lawrence Berkeley National Laboratory (LBNL)	United States	332	332
10	University of Chinese Academy of Sciences (UCAS)	China	298	298
11	Northwestern University (NU)	United States	296	296
12	Harvard University	United States	265	265
13	Stanford University (SU)	United States	242	242
14	University of Science and Technology of China (USTC)	China	235	235
15	Massachusetts Institute of Technology (MIT)	United States	234	234
16	Swiss Federal Institute of Technology Zurich (ETH Zurich)	Switzerland	233	233
17	University of Oxford	United Kingdom	230	230
18	Tsinghua University (TH)	China	219	219
19	Swiss Federal Institute of Technology in Lausanne (EPFL)	Switzerland	216	216
20	Argonne National Laboratory (ANL)	United States	213	213
21	The University of Tokyo (UTokyo)	Japan	211	211
22	Nanyang Technological University (NTU)	Singapore	208	208
23	University of Cambridge	United Kingdom	203	203
24	Kyoto University	Japan	200	200
25	Nanjing University (NJU)	China	194	194
26	National University of Singapore (NUS)	Singapore	190	190
27	Atomic Energy and Alternative Energies Commission (CEA)	France	189	189
28	Joseph Fourier University (JJF)	France	178	178
29	Institute of Chemical Research of Catalonia (ICIQ)	Spain	177	177
30	University of Illinois at Urbana-Champaign (UIUC)	United States	171	171
31	National Institute of Applied Sciences (INSA)	France	170	170
32	Nankai University (NKU)	China	169	169
33	University of Strasbourg	France	167	167
34	Pierre and Marie Curie University (UPMC) - Paris 6	France	163	163
35	Leibniz Association	Germany	163	163
36	Tohoku University	Japan	161	161
37	Fudan University	China	160	160
38	University of Milan (UNIMI)	Italy	156	156
39	Osaka University	Japan	152	152
40	Technical University Munich (TUM)	Germany	151	151
41	Russian Academy of Sciences (RAS)	Russia	148	148
42	Xiamen University (XMU)	China	147	147
43	University of Barcelona (UB)	Spain	143	143
44	University of Toulouse	France	141	141
45	Tianjin University (TJU)	China	141	141
46	Korea Advanced Institute of Science and Technology (KAIST)	South Korea	141	141
47	The University of Manchester (UoM)	United Kingdom	139	139
48	Zhejiang University (ZJU)	China	139	139
49	Ludwig Maximilian University of Munich (LMU)	Germany	134	134
50	Agency for Science, Technology and Research (A*STAR)	Singapore	133	133

TOP 50 INSTITUTIONS BY COLLABORATION SCORE IN EARTH AND ENVIRONMENTAL SCIENCES

2014	INSTITUTION	COUNTRY	WEIGHTED COLLABORATION SCORE	COLLABORATION SCORE
1	French National Centre for Scientific Research (CNRS)	France	804	804
2	Institute of Research for Development (IRD)	France	400	400
3	National Aeronautics and Space Administration (NASA)	United States	363	363
4	Helmholtz Association of German Research Centres	Germany	300	300
5	Chinese Academy of Sciences (CAS)	China	293	293
6	Paris Diderot University (Paris 7)	France	270	270
7	National Oceanic and Atmospheric Administration (NOAA)	United States	259	259
8	California Institute of Technology (Caltech)	United States	248	248
9	Pierre and Marie Curie University (UPMC) - Paris 6	France	213	213
10	Swiss Federal Institute of Technology Zürich (ETH Zurich)	Switzerland	190	190
11	Centre National d'Etudes Spatiales (CNES)	France	190	190
12	École Normale Supérieure (ENS)	France	188	188
13	University of Colorado Boulder (CU-Boulder)	United States	183	183
14	University of California, San Diego (UC San Diego)	United States	176	176
15	Columbia University in the City of New York (CU)	United States	169	169
16	University of Maryland, College Park (UMCP)	United States	154	154
17	Spanish National Research Council (CSIC)	Spain	153	153
18	Woods Hole Oceanographic Institution (WHOI)	United States	150	150
19	Max Planck Society	Germany	150	150
20	Atomic Energy and Alternative Energies Commission (CEA)	France	144	144
21	University of Washington (UW)	United States	137	137
22	University of California Berkeley (UC Berkeley)	United States	135	135
23	U.S. Geological Survey (USGS)	United States	135	135
24	Paris-Est Créteil University (UPEC)	France	134	134
25	Massachusetts Institute of Technology (MIT)	United States	131	131
26	National Center for Atmospheric Research (NCAR)	United States	124	124
27	École Polytechnique	France	122	122
28	University of Versailles Saint-Quentin-en-Yvelines (UVSQ)	France	121	121
29	University of Cambridge	United Kingdom	118	118
30	Leibniz Association	Germany	117	117
31	University of Oxford	United Kingdom	116	116
32	The University of Tokyo (UTokyo)	Japan	114	114
33	The Commonwealth Scientific & Industrial Research Organisation (CSIRO)	Australia	110	110
34	Japan Agency for Marine-Earth Science and Technology (JAMSTEC)	Japan	106	106
35	University of Hawai'i at Manoa (UH Mānoa)	United States	105	105
36	Joseph Fourier University (UJF)	France	105	105
37	The University of Texas at Austin (UT Austin)	United States	104	104
38	Princeton University	United States	97	97
39	Peking University (PKU)	China	96	96
40	University of Wisconsin-Madison (UW-Madison)	United States	95	95
41	Australian National University (ANU)	Australia	94	94
42	University of Tasmania (UTAS)	Australia	93	93
43	The University of Arizona (Arizona)	United States	89	89
44	Harvard University	United States	89	89
45	University of Toulouse	France	89	89
46	French Research Institute for Exploitation of the Sea (Ifremer)	France	86	86
47	University of Minnesota (UMN)	United States	86	86
48	University of Bristol (UoB)	United Kingdom	84	84
49	University of Oslo (UiO)	Norway	83	83
50	The Pennsylvania State University (Penn State)	United States	83	83

TOP 50 INSTITUTIONS BY COLLABORATION SCORE IN LIFE SCIENCES

2014	INSTITUTION	COUNTRY	WEIGHTED COLLABORATION SCORE	COLLABORATION SCORE
1	Harvard University	United States	2,192	2,192
2	French National Centre for Scientific Research (CNRS)	France	1,523	1,523
3	National Institutes of Health (NIH)	United States	1,089	1,089
4	Max Planck Society	Germany	1,051	1,051
5	National Institute for Health and Medical Research (INSERM)	France	899	899
6	Massachusetts Institute of Technology (MIT)	United States	787	787
7	Helmholtz Association of German Research Centres	Germany	762	762
8	University of Oxford	United Kingdom	662	662
9	Chinese Academy of Sciences (CAS)	China	661	661
10	University College London (UCL)	United Kingdom	641	641
11	University of Cambridge	United Kingdom	628	628
12	Stanford University (SU)	United States	592	592
13	University of California San Francisco (UCSF)	United States	573	573
14	University of Toronto (U of T)	Canada	562	562
15	University of California, San Diego (UC San Diego)	United States	544	544
16	Institute of Physical and Chemical Research (RIKEN)	Japan	542	542
17	Columbia University in the City of New York (CU)	United States	517	517
18	Yale University	United States	515	515
19	University of Washington (UW)	United States	513	513
20	Imperial College London (ICL)	United Kingdom	500	500
21	Cornell University	United States	470	470
22	Duke University	United States	466	466
23	University of Copenhagen (UCPH)	Denmark	424	424
24	The Johns Hopkins University (JHU)	United States	418	418
25	University of Pennsylvania (Penn)	United States	411	411
26	Spanish National Research Council (CSIC)	Spain	410	410
27	University of California Berkeley (UC Berkeley)	United States	402	402
28	University of California Los Angeles (UCLA)	United States	399	399
29	King's College London (KCL)	United Kingdom	394	394
30	The University of Tokyo (UTokyo)	Japan	387	387
31	Washington University in St. Louis (WUSTL)	United States	387	387
32	Karolinska Institute (KI)	Sweden	381	381
33	University of Michigan (U-M)	United States	364	364
34	Pierre and Marie Curie University (UPMC) - Paris 6	France	358	358
35	Baylor College of Medicine (BCM)	United States	350	350
36	Ludwig Maximilian University of Munich (LMU)	Germany	341	341
37	The University of Chicago (UChicago)	United States	336	336
38	Icahn School of Medicine at Mount Sinai (ISMMS)	United States	325	325
39	Wellcome Trust Sanger Institute	United Kingdom	322	322
40	French National Institute for Agricultural Research (INRA)	France	321	321
41	University of North Carolina at Chapel Hill (UNC)	United States	317	317
42	Istituto Di Ricovero e Cura a Carattere Scientifico (IRCCS)	Italy	307	307
43	The University of Texas MD Anderson Cancer Center	United States	302	302
44	Technical University Munich (TUM)	Germany	300	300
45	Vanderbilt University (VU)	United States	296	296
46	Utrecht University (UU)	Netherlands	295	295
47	New York University (NYU)	United States	294	294
48	Swiss Federal Institute of Technology Zurich (ETH Zurich)	Switzerland	294	294
49	The University of Edinburgh	United Kingdom	293	293
50	The University of Melbourne (UniMelb)	Australia	292	292

TOP 50 INSTITUTIONS BY COLLABORATION SCORE IN PHYSICAL SCIENCES

2014	INSTITUTION	COUNTRY	WEIGHTED COLLABORATION SCORE	COLLABORATION SCORE
1	French National Centre for Scientific Research (CNRS)	France	3,194	5,103
2	Max Planck Society	Germany	1,731	3,616
3	National Institute for Astrophysics (INAF)	Italy	491	2,260
4	Spanish National Research Council (CSIC)	Spain	1,169	2,173
5	Chinese Academy of Sciences (CAS)	China	1,468	1,946
6	Harvard University	United States	828	1,678
7	California Institute of Technology (Caltech)	United States	557	1,508
8	National Aeronautics and Space Administration (NASA)	United States	394	1,427
9	Helmholtz Association of German Research Centres	Germany	1,302	1,417
10	Russian Academy of Sciences (RAS)	Russia	1,091	1,355
11	University of Cambridge	United Kingdom	760	1,323
12	Pierre and Marie Curie University (UPMC) - Paris 6	France	722	1,305
13	Atomic Energy and Alternative Energies Commission (CEA)	France	821	1,221
14	University of California Berkeley (UC Berkeley)	United States	713	1,189
15	Massachusetts Institute of Technology (MIT)	United States	872	1,103
16	Paris Diderot University (Paris 7)	France	513	1,091
17	The University of Tokyo (UTokyo)	Japan	741	1,081
18	Smithsonian Institution	United States	258	1,079
19	European Southern Observatory (ESO)	Germany	229	1,042
20	Stanford University (SU)	United States	729	1,039
21	University of Oxford	United Kingdom	640	951
22	University of Maryland, College Park (UMCP)	United States	557	843
23	Lawrence Berkeley National Laboratory (LBNL)	United States	688	833
24	The University of Edinburgh	United Kingdom	492	818
25	Swiss Federal Institute of Technology Zurich (ETH Zurich)	Switzerland	620	805
26	Heidelberg University (Uni Heidelberg)	Germany	451	749
27	Paris Observatory	France	181	706
28	The University of Arizona (Arizona)	United States	285	689
29	Joseph Fourier University (UJF)	France	465	679
30	University of Padova (UNIPD)	Italy	505	673
31	Science and Technology Facilities Council (STFC)	United Kingdom	476	673
32	Sapienza University of Rome	Italy	600	668
33	Space Telescope Science Institute (STScI)	United States	147	668
34	University of California Santa Cruz (UCSC)	United States	277	666
35	University of Paris Sud (Paris 11)	France	544	659
36	University of Michigan (U-M)	United States	373	659
37	University College London (UCL)	United Kingdom	381	651
38	University of Bologna (UNIBO)	Italy	479	649
39	Princeton University	United States	418	648
40	Peking University (PKU)	China	509	643
41	The University of Chicago (UChicago)	United States	364	634
42	University of Barcelona (UB)	Spain	416	628
43	The Ohio State University (OSU)	United States	394	627
44	Yale University	United States	377	625
45	University of Glasgow	United Kingdom	468	625
46	Swiss Federal Institute of Technology in Lausanne (EPFL)	Switzerland	578	620
47	The University of Sydney (USYD)	Australia	317	613
48	The Johns Hopkins University (JHU)	United States	312	606
49	Imperial College London (ICL)	United Kingdom	516	603
50	Aix-Marseille University (AMU)	France	307	599

TOP 50 INDUSTRIAL ORGANIZATIONS BY COLLABORATION SCORE

2014	CORPORATION	COUNTRY	WEIGHTED COLLABORATION SCORE	COLLABORATION SCORE
1	BGI	China	137	137
2	IBM Corporation	United States	80	90
3	F. Hoffman-La Roche AG	Switzerland	85	85
4	Samsung Group	South Korea	75	75
5	Novartis International AG	Switzerland	66	66
6	GlaxoSmithKline plc	United Kingdom	63	63
7	AstraZeneca plc	United Kingdom	63	63
8	Pfizer Inc.	United States	57	57
9	Interuniversity Microelectronics Centre (IMEC)	Belgium	55	55
10	Amgen Inc.	United States	51	51
11	Merck & Co., Inc.	United States	37	37
12	GNS Science	New Zealand	36	36
13	Microsoft Corporation	United States	31	33
14	Toyota Group	Japan	30	30
15	Leidos Holdings, Inc.	United States	30	30
16	Lockheed Martin Corporation	United States	14	29
17	Polyera Corporation	United States	28	28
18	Eureka Scientific, Inc.	United States	6	28
19	European XFEL GmbH	Germany	25	26
20	Adler Planetarium	United States	5	26
21	Boehringer Ingelheim GmbH	Germany	25	25
22	Thales S.A.	France	25	25
23	Bruker Corporation	United States	25	25
24	Raytheon Company	United States	6	24
25	Thermo Fisher Scientific Inc.	United States	24	24
26	BASF SE	Germany	23	23
27	Hitachi, Ltd.	Japan	22	22
28	NTT Group	Japan	21	21
29	Royal Philips (Philips)	Netherlands	21	21
30	Agilent Technologies, Inc.	United States	20	20
31	Sanofi	France	19	19
32	Eli Lilly and Company	United States	19	19
33	Illumina, Inc.	United States	17	17
34	Takeda Pharmaceutical Company Limited	Japan	17	17
35	Wuhan Research Institute of Posts and Telecommunications (WRI)	China	17	17
36	Mitsubishi Group	Japan	16	16
37	Cell Signaling Technology, Inc.	United States	16	16
38	Haldor Topsøe A/S	Denmark	16	16
39	NYCB Real-Time Computing Inc.	United States	8	15
40	The Dow Chemical Company	United States	14	14
41	Aerodyne Research, Inc. (ARI)	United States	14	14
42	Eni s.p.a.	Italy	14	14
43	FEI Company	United States	14	14
44	Johnson & Johnson	United States	14	14
45	SRI International	United States	12	13
46	Western Digital Corporation	United States	13	13
47	Novo Nordisk A/S	Denmark	13	13
48	Predictive Science Inc.	United States	2	12
49	Element Six	Luxembourg	12	12
50	China Electronics Technology Group Corporation (CETC)	China	12	12