

World class universities and international rankings

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Table S1. DEA results for the top 199 institutions in the SJTU ranking. HiCi = highly cited researchers, N&S = articles published in Nature and Science, PUB = articles indexed in Science Citation Index Expanded, and Social Science Citation Index

Rank	Unit name	Score	Alumni	Award	HiCi	N&S	PUB
1	Duke Univ	100	18.6	0	46.1	42.6	63.4
2	Univ Sao Paulo	100	0	0	10.3	12.7	69
3	Univ Leeds	100	20.2	0	10.3	24	43.6
4	Univ Queensland	100	14.8	0	12.6	22	54.5
5	Tohoku Univ	100	16.8	0	21.9	23.2	63.9
6	Osaka Univ	100	11.2	0	26.3	28.2	63.6
7	Univ Arizona	100	0	0	30.1	36.5	54.2
8	Baylor Coll Med	100	0	0	19.3	30.9	43.4
9	Ohio State Univ - Columbus	100	15.8	0	41.9	19.8	63
10	Univ Geneva	100	26.3	0	20.6	22.9	35
11	Univ Buenos Aires	100	19.4	25.3	0	5.9	36.2
12	Univ Vienna	100	18.6	0	7.3	21.9	37.5
13	Natl Taiwan Univ	100	13.7	0	7.3	10.3	57.6
14	Univ Turin	100	19.4	0	12.6	11.1	39.7
15	Univ Tuebingen	100	26.3	0	16.3	20.6	42.3
16	Delft Univ Tech	100	13.7	0	7.3	23.9	36.1
17	Univ Roma - La Sapienza	100	14.8	15.5	10.3	16.3	53.5
18	Lund Univ	100	26.3	0	25.3	18	51.7
19	Univ Frankfurt	100	35.9	8.9	19.3	14	39.4
20	Seoul Natl Univ	100	0	0	7.3	11.5	63.8
21	Pennsylvania State Univ - Univ P	100	12.5	0	45.5	38.5	58.9
22	Boston Univ	100	13.7	0	30.1	27.5	51.5
23	Univ Paris 06	100	36.6	23.6	23.1	27.3	58.2
24	Univ Michigan - Ann Arbor	100	38.4	0	60.6	41.7	78.1
25	Moscow State Univ	100	49.1	34.2	0	8.3	53.2
26	Johns Hopkins Univ	100	45.8	27.8	43.1	48.7	68.5
27	Univ Nacl Autonoma Mexico	97.55	14.8	0	7.3	13.1	50.3

28	Univ Nebraska - Lincoln	97.47	20.9	16.3		15.2	34.7
29	McGill Univ	94.82	25.7	0	32.6	22.8	60.3
30	Univ Barcelona	94.7	0	0	7.3	15.6	49.9
31	Univ Paris 11	93.96	33.3	46.2	14.6	20.4	47
32	Univ Minnesota - Twin Cities	93.79	32.2	16.3	50	34.8	67.5
33	Univ Milan	93.63	20.2	0	19.3	14.2	52.8
34	Univ Chicago	93.5	67.4	81.9	50.5	39.5	51.9
35	Univ Washington - Seattle	93.37	25.7	31.8	53.1	49.5	74.1
36	Univ Padua	93.32	0	0	12.6	18.4	48.4
37	Michigan State Univ	93.23	11.2	0	35.7	22.4	51.6
38	Univ Hawaii - Manoa	92.94	0	0	26.3	31	37.9
39	Radboud Univ Nijmegen	92.23	0	0	10.3	20.2	44.8
40	Texas A&M Univ - Coll Station	91.93	0	0	32.6	24.5	55
41	Univ Sydney	91.88	17.7	0	20.6	16.4	58
42	Aarhus Univ	91.58	13.7	18.9	7.3	24.5	48.2
43	Univ Paris 07	91	16.3	13.8	14.6	21.8	38.1
44	Univ Amsterdam	90.95	7.9	0	19.3	23.6	50.2
45	Tokyo Univ	90.87	32.2	14.1	43.1	51.9	83.3
46	Univ Florida	90.58	20.2	0	37.2	22.7	64.9
47	Univ Goettingen	90.04	34.5	20	14.6	16.5	40.3
48	Columbia Univ	89.11	72.4	65.7	56.5	52.3	70.5
49	Univ Paris 05	88.62	14.4	12	10.3	15	35.2
50	State Univ New York - Stony Brook	88.53	0	0	17.9	24.6	38.5
51	Univ Montreal	88.34	13.7	0	14.6	15.6	52.8
52	Uppsala Univ	88.08	23.1	32.2	12.6	19.3	49.5
53	Univ Alberta	87.98	13.7	0	19.3	19.1	55.1
54	Kyushu Univ	87.96	0	0	14.6	17.7	52.3
55	Univ California - Davis	87.62	0	0	46.7	31.7	63.2
56	Univ Pittsburgh - Pittsburgh	87.14	22.4	0	40.6	23.2	63.1
57	Univ California - Santa Cruz	86.45	0	0	27.3	30.3	30.7
58	Arizona State Univ - Tempe	85.97	0	14.1	24.2	28.2	43.1
59	Tech Univ Munich	85.23	41.1	23.6	25.3	18.9	44.8
60	Stockholm Univ	85.03	26.3	29.6	16.3	19.2	36.2
61	Tokyo Inst Tech	84.69	14.8	0	21.9	23.9	46.6
62	Univ Strasbourg 1	84.64	26.3	22.5	16.3	16.1	34.3
63	Natl Univ Singapore	84.18	0	0	14.6	13	57.3
64	Univ Cambridge	83.75	90.3	91.5	53.6	56	64.1
65	Univ Georgia	83.38	0	0	26.3	19.8	44.6
66	Univ Koeln	83.35	0	12.6	7.3	19.6	38.6
67	Univ Bern	83.21	14.8	0	10.3	19.8	36.7
68	Hokkaido Univ	82.84	0	0	16.3	16.2	51.2
69	Ecole Normale Super Paris	82.7	53.4	24.5	12.6	17.2	25.9
70	Queen Mary, Univ London	82.51	21.7	0	16.3	15.6	32.3

71	Univ Tennessee - Knoxville	82.19	12.5	0	20.6	19.8	39.7
72	Case Western Reserve Univ	82.16	36.3	11.5	21.9	15.2	42.1
73	Dartmouth Coll	81.92	21.7	0	21.9	20.6	31.4
74	Univ Texas - Austin	81.61	19.4	16.7	46.1	26.7	54.2
75	Massachusetts Inst Tech (MIT)	81.35	71	80.6	65.6	68.7	61.6
76	Univ Oxford	81.07	59	57.9	48.4	52	66
77	Univ Iowa	80.74	0	0	34.2	21.8	49.2
78	Harvard Univ	80.69	100	100	100	100	100
79	Tel Aviv Univ	80.56	0	0	24.2	20.5	52.2
80	Cardiff Univ	80.33	0	16.3	7.3	18.9	43.8
81	Univ Wisconsin - Madison	80.23	38.4	35.5	52.6	41.2	68.1
82	Georgia Inst Tech	80.21	14.8	0	25.3	23.6	45.6
83	Univ California - Berkeley	80.2	69	77.1	68.8	70.6	70
84	Univ Munich	78.95	33.1	22.9	16.3	25.6	52.7
85	Univ Grenoble 1	78.93	0	15.5	10.3	17.2	35.8
86	Florida State Univ	78.89	0	0	20.6	20.6	39.7
87	Univ California - Riverside	78.85	14.8	0	27.3	25.7	35.9
88	Univ Virginia	78.77	0	0	32.6	26.3	47.2
89	Univ Illinois - Urbana Champaign	78.49	37.1	36.6	43.8	36.1	60.3
90	Emory Univ	78.44	0	0	30.9	21.3	50.5
91	Univ Massachusetts Med Sch	78.07	0	20	14.6	25	28.1
92	Univ Hamburg	76.88	14.8	0	17.9	18.8	39.4
93	Univ East Anglia	76.45	15.8	0	16.3	20.5	28
94	Purdue Univ - West Lafayette	76.36	16.8	16.7	30.1	22	52.8
95	North Carolina State Univ - Raleigh	76.34	0	0	28.2	17.4	43.7
96	New York Univ	76.1	34.1	24.5	39.9	34.4	53.4
97	Iowa State Univ	75.5	0	0	23.1	11.7	43.9
98	Univ Leuven	75.45	0	0	21.9	15.6	50.8
99	Univ Alabama - Birmingham	74.67	0	0	16.3	16.3	44.6
100	Virginia Tech	74.66	13.7	0	21.9	13	40.9
101	Oregon State Univ	74.43	13.7	0	27.3	24.4	37.2
102	Kyoto Univ	74.23	35.4	33.4	38.6	35.8	70.6
103	Univ Coll London	74.08	31.2	32.2	38.6	44.3	65.8
104	Univ Utrecht	74.04	27.4	20.9	28.2	28.8	53.3
105	Univ Muenster	74.02	22.4	15.5	12.6	13.5	37.5
106	Univ California - Los Angeles	73.38	24.4	42.8	57.4	48.9	75.7
107	Univ Colorado - Boulder	72.65	14.8	30.8	39.3	39.4	45.5
108	Univ Illinois - Chicago	72.6	0	0	26.3	12.8	47.9
109	Univ New South Wales	72.26	0	0	19.3	11.7	48.5
110	Cornell Univ	71.81	41.5	51.3	54.1	52.3	64.7
111	Indiana Univ - Bloomington	71.05	12.5	17.9	26.3	21.2	39.3
112	Univ Colorado - Denver	70.88	0	0	17.9	16.7	40.6
113	Rockefeller Univ	70.78	20.2	58.6	29.2	42.2	22.3

114	Oregon Health & Sci Univ	70.72	0	0	20.6	19.2	37.2
115	Hebrew Univ Jerusalem	70.64	29.6	20	24.2	22.9	44.1
116	Mayo Clinic Coll Med	70.62	0	0	25.3	15.2	49.2
117	Univ Delaware	70.13	12.5	0	20.6	14	33.2
118	Univ Glasgow	69.74	11.2	0	21.9	15.5	43.4
119	Univ Utah	69.73	0	11.5	30.1	29.2	48
120	Univ Connecticut - Storrs	69.32	13.7	0	16.3	12.3	36.6
121	Univ Maryland - Coll Park	68.93	23.1	20	40.6	30.4	53.1
122	Univ Pisa	68.87	16.8	23.6	14.6	5	40.4
123	VU Univ Amsterdam	68.28	0	0	23.1	14.6	46
124	Yale Univ	68.28	48.5	43.6	57	55.7	62.4
125	Univ North Carolina - Chapel Hill	68.25	11.2	16.3	37.9	28.8	62
126	Univ Freiburg	68.05	22.4	20.9	16.3	19.2	38
127	Univ Manchester	67.76	24.4	18.9	28.2	28.3	60.5
128	Univ Edinburgh	67.66	20.2	16.7	26.3	32.3	49.7
129	Univ Cincinnati - Cincinnati	67.57	0	0	23.1	11.1	42.8
130	Univ Southampton	67	0	0	19.3	14	43.6
131	Univ Miami	66.96	0	0	24.2	17.8	40.2
132	Karolinska Inst Stockholm	66.48	27.4	27.3	31.8	18.3	50.1
133	Univ Wuerzburg	66.48	22.4	8.9	24.2	14.4	37.1
134	Nagoya Univ	66.46	0	14.1	16.3	20.7	51.4
135	Univ Massachusetts - Amherst	66.15	15.8	0	33.4	20.4	36.4
136	Univ Bonn	65.56	17.7	20	14.6	20.2	41.3
137	Univ Melbourne	65.51	13.7	14.1	23.1	19.6	58.1
138	Univ Mainz	65.04	0	8.2	17.9	20.4	38
139	Rutgers State Univ - New Brunswi	64.88	13.7	20	39.9	27.9	44
140	Washington Univ - St. Louis	64.77	22.4	26	38.6	43.2	56
141	Univ Rochester	64.58	29.6	8.9	27.3	21.6	44.1
142	Swiss Fed Inst Tech - Lausanne	64.56	0	0	24.2	17.3	40.8
143	Univ Liverpool	64.42	20.9	15.5	12.6	19.2	42.4
144	Univ Texas M.D. Anderson Cancer	64.14	0	0	21.9	10.1	43.5
145	Univ Durham	63.93	0	0	17.9	16.9	34.7
146	Univ Groningen	63.62	0	20	17.9	17.2	47.3
147	Univ Maryland - Baltimore	63.23	0	0	21.9	14	39.4
148	Univ California - San Diego	63.15	15.8	34	59.7	53	66.7
149	Univ Kiel	63.08	13.7	15.5	10.3	11.6	30.7
150	Univ California - San Francisco	62.96	0	36.8	54.1	51.5	60.8
151	Univ Birmingham	62.92	22.4	10.9	21.9	15.6	47.3
152	Univ Sheffield	61.76	20.9	14.1	21.9	25.5	47
153	Univ Warwick	61.65	0	0	18.6	15.2	35.9
154	Univ Copenhagen	61.53	27.4	24.2	26.3	25.4	54.5
155	Univ Southern California	61.4	0	26.8	38.6	24.7	52.6
156	Univ Pennsylvania	60.87	31.7	34.4	58.3	41.3	69

157	Univ British Columbia	60.22	18.6	18.9	31.8	31.9	65.8
158	Univ Texas Health Sci Center - H	60.21	0	15.5	17.9	18.7	31.3
159	Imperial Coll London	60.08	18.6	37.4	39.9	38.2	61.8
160	Univ Toronto	60.06	25	19.3	38.6	37	79.8
161	Univ Leicester	59.85	0	0	19.3	15.8	33.9
162	Univ Texas Southwestern Med Cent	59.82	21.7	33.2	30.9	31.7	39.3
163	Univ Med & Dentistry New Jersey	59.64	0	0	23.1	13.8	35
164	Carnegie Mellon Univ	59.59	31.2	32.8	31.8	11.3	35.7
165	Virginia Commonwealth Univ	59.42	12.5	14.1	17.9	7.9	35.9
166	Colorado State Univ	58.79	0	0	27.3	13.9	38.2
167	Univ Oslo	58.76	23.1	33.4	17.9	17	46.7
168	Princeton Univ	58.51	59.3	80.4	61.9	40.5	44.8
169	Technion Israel Inst Tech	58.42	16.8	23.1	14.6	14.6	39.8
170	Univ Zurich	58.18	11.2	26.8	24.7	27.5	50.2
171	Univ Heidelberg	57.9	17.7	27.2	17.9	20.4	49.2
172	Stanford Univ	57.71	40	78.7	86.6	68.9	71.6
173	Australian Natl Univ	57.63	15.8	12.6	35.7	30.5	43.4
174	Univ Helsinki	57.22	16.8	17.9	21.9	20.8	53.8
175	Univ Leiden	56.92	22.4	15.5	28.2	17.7	47.6
176	Univ California - Santa Barbara	56.66	0	35.3	41.9	34.9	43.2
177	Tsukuba Univ	56.29	0	20	12.6	8.9	41.3
178	Univ Wageningen	55.73	0	0	29.2	14.4	38
179	Northwestern Univ	55.47	19.4	18.9	46.7	32.8	58.7
180	Univ Libre Bruxelles	55.14	19.4	18.9	12.6	14.3	31.6
181	Univ Bristol	55	9.7	17.9	28.2	28.1	47.8
182	Brown Univ	54.07	16.8	13.6	31.8	26.6	40.4
183	Univ Basel	53.6	23.1	17.1	20.6	21.1	35.7
184	Tech Univ Denmark	53.42	7.9	12.6	17.9	13.5	33.5
185	Swiss Fed Inst Tech - Zurich	52.78	35.9	36.3	36.1	38.1	53.6
186	Univ California - Irvine	52.34	0	29.4	37.2	27.5	49.3
187	McMaster Univ	51.69	14.8	18.9	21.9	14.7	46.1
188	Univ Ghent	51.46	7.9	15.5	16.3	7.7	52.7
189	Rice Univ	50.82	19.4	21.9	21.9	19.7	29.5
190	Univ Western Australia	50.57	15.8	14.1	17.9	10.5	41.2
191	Tufts Univ	49.95	16.8	16.7	23.1	14.4	39.3
192	King's Coll London	49.3	14.8	23.1	21.9	15.3	48.7
193	Univ Nottingham	49.19	13.7	20	24.2	16	47.9
194	California Inst Tech	49.1	52.8	69.1	57.4	66.1	49.7
195	Erasmus Univ	47.92	0	15.5	20.6	5.8	31.5
196	Univ Louvain	46.75	12.5	13.6	17.9	12.4	42.8
197	Vanderbilt Univ	46.08	18.6	29.6	30.9	23.1	50.3
198	George Mason Univ	40.51	0	32.2	10.3	5.6	27.1
199	Univ Sussex	36.01	0	22.8	19.3	16.5	27.7