

Appendix 33.A. TABLES of Authors, Publications and Citations

Table 33.A.1. Expanded list of Asia-Pac countries; pg 1

Table 33.A.2. Top institutions in the world; pg 3

Table 33.A.3. Top institutions in Asia; pg 5

Table 33.A. 4. Top institutions in China; pg 6

**Table 33.1.A. Country Data: Authors, Publications and Citations**

Year range: 2014 to 2018 with world ranks

	AUTHORS		PUBLICATIONS		CITATIONS		Field Weighted Cite Impact Score
Country	Rank	Number	Rank	Number	Rank	Number	
China	1	2605379	2	1969818	2	6896203	0.92
Japan	3	566596	6	511834	9	1804783	0.96
India	4	556597	5	559522	12	1428546	0.77
Australia	14	229116	10	381890	8	1985886	1.57
Iran	15	193579	16	199821	19	630060	1
<b>Taiwan</b>	<b>16</b>	<b>166672</b>	<b>21</b>	<b>154803</b>	<b>22</b>	<b>563093</b>	<b>0.98</b>
Malaysia	22	105251	23	115089	35	315491	0.91
Singapore	31	58638	31	82558	23	538140	1.73

Pakistan	32	57270	41	55626	43	181388	1.12
Thailand	35	54371	100	56898	44	169684	0.92
<b>Indonesia</b>	<b>36</b>	<b>54276</b>	<b>45</b>	<b>43605</b>	<b>56</b>	<b>70190</b>	<b>0.84</b>
Saudi Arabia	43	45215	34	79599	29	422434	1.48
Hong Kong	44	43303	36	70720	31	411838	1.63
New Zealand	47	37538	38	60155	37	279436	1.49
<b>Viet Nam</b>	<b>53</b>	<b>23436</b>	<b>57</b>	<b>21049</b>	<b>54</b>	<b>73816</b>	<b>1.23</b>
Bangladesh	57	20133	59	16701	61	55251	1.15
United Arab Emira	61	13102	58	19244	57	65914	1.21
<b>Philippines</b>	<b>62</b>	<b>13098</b>	<b>67</b>	<b>10823</b>	<b>71</b>	<b>40050</b>	<b>1.25</b>
<b>Sri Lanka</b>	<b>73</b>	<b>7703</b>	<b>81</b>	<b>6434</b>	<b>75</b>	<b>29930</b>	<b>1.42</b>
Qatar	77	6486	62	13378	55	73113	1.81
Nepal	84	5223	90	4654	96	14583	1.14
Macao	100	2788	89	4781	84	23131	1.41
Mongolia	113	1662	121	1463	130	5254	0.99
Cambodia	115	1643	122	1449	115	8475	1.83
Brunei Darussalan	124	1267	110	1768	126	5857	1.2
<b>Myanmar</b>	<b>127</b>	<b>1195</b>	<b>132</b>	<b>964</b>	<b>137</b>	<b>3960</b>	<b>1.19</b>
Laos	132	921	133	924	131	5009	1.58
<b>North Korea</b>	<b>168</b>	<b>224</b>	<b>183</b>	<b>135</b>	<b>199</b>	<b>289</b>	<b>0.39</b>

**Red: author and publication growth rates of over 40% during the time period**

**Blue: high author rates and publication growth around 36%**

**Field-weighted citation impact scores: Under "1" is below the world average.**

TABLE 33.A.2 Top 10 Institutions in the World :Authors, Publications, Citations and FWCI

Date range 2012-2016; includes summary data by country

Institution	Country	AUTHORS		PUBLICATIONS		CITATIONS		FWCI
		Number	Rank	Number	Rank	Number	Rank	Score
Ministry of Education China	China	<b>164643</b>	1	156116	3	1251836	4	1.08
Chinese Academy of Sciences	China	<b>144540</b>	2	222778	1	2203967	2	1.25
CNRS [ Scientific research]	France	<b>120210</b>	3	191934	2	2022501	3	1.45
Harvard University	US	<b>71627</b>	4	140938	4	2656420	1	2.4
Universidade de Sao Paulo	Brazil	<b>53292</b>	5	66139	9	449953	73	1.05
Shanghai Jiao Tong University	China	<b>50282</b>	6	63319	12	512067	57	1.17
RAS [Russian Academy of Sciences]	Russia	<b>48628</b>	7	82672	5	372636	99	0.7
Zhejiang University	China	<b>47673</b>	8	60107	18	487376	60	1.13
University of Toronto	Canada	<b>43434</b>	9	81378	6	1125120	6	1.97
INSERM [Health & medical research]	France	<b>42872</b>	10	63337	11	949781	12	1.8
Universite Paris Saclay	France	<b>40195</b>	12	78648	7	912991	14	1.64
University of Michigan	US	<b>31869</b>	18	65390	10	915721	13	2.04
Stanford University	US	<b>31059</b>	21	63180	13	1156627	5	2.57
Johns Hopkins University	US	<b>30678</b>	22	61576	16	1038639	9	2.23
University College London	UK	<b>30621</b>	23	68819	8	994213	10	2.09
National Institutes of Health	US	<b>29351</b>	26	49165	27	1075635	7	2.49
University of Oxford	UK	<b>27607</b>	32	62701	15	1041092	8	2.35

<b>SUMMARY DATA</b>	<b>TOTAL</b>	<b>TOP TENS</b>			<b>TOP 1000</b>
Country		Authors	:Pubs	Cites	FWCI
China	4	4	2	2	
France	3	2	2	1	
Brazil	1	1	1	0	
Canada	1	1	1	1	
Russia	1	1	1	0	
US	5	1	2	4	5
UK	2	0	1	2	2

Table 33.A. 3: Asia Top 10 from SciVal Scopus data 2012-2016

KEY: ARA PRA, CRA, - Asia Rank for Authors, Publications, and Citations  
 ARW, PRW, CRW,-- World Rank for same categories

Institution	Ctry	ARA	Authors	ARW	PRA	Pubs	PRW	CRA	Cites	CRW
Shanghai Jiao Tong U	CN	1	50282	6	1	63319	12	5	512067	58
Zhejiang U	CN	2	47673	8	3	60107	18	6	487376	61
Peking U	CN	3	42584	11	5	56392	21	2	615835	36
Tsinghua U	CN	4	33677	14	2	62732	14	4	554495	44
Huazhong U of Science & Tech	CN	5	32971	15	9	37698	63	11	295508	147
Fudan U	CN	6	32220	17	10	36964	66	9	399966	91
U of Tokyo	JP	7	28611	30	4	59395	20	1	623361	34
Seoul National U	SK	8	28549	31	6	46935	33	7	473981	68
National U of Singapore	SG	9	23411	46	7	44635	39	3	571980	43
Kyoto U	JP	10	19837	71	8	40287	53	10	396342	95
Nanyang Technological U	SG	11	14859	137	11	33075	88	8	448067	75
U of Hong Kong	HK	12	12345	176	12	24196	154	12	279076	156
Hong Kong U of Science & Tech	HK	13	6748	458	13	12612	414	13	152731	310

SUMMARY	TOTAL	Authors	Pubs	Cites
Number in Top in World		10	100	100
CN	6	2	6	5
JP	1	0	2	2
SK	1	0	1	1
SG	2	0	2	2

Table 33 .A. 4: Top 10 Chinese Institutions

CA.CP.CC -Chinese ranks; WA.WP,WC - world ranks

Institution	AUTHORS			PUBLICATIONS			CITATIONS		
	Number	RANK		Number	RANK		Number	RANK	
		CA	WA		CP	WP		CC	WC
Ministry of Education China	164643	1	1	156116	2	3	1251836	2	4
Chinese Academy of Sciences	144540	2	2	222778	1	1	2203967	1	2
Shanghai Jiao Tong University	50282	3	6	63319	3	12	512067	5	58
Zhejiang University	47673	4	8	60107	5	18	487376	6	61
Peking University	42584	5	11	56392	6	21	615835	3	36
Tsinghua University	33677	6	14	62732	4	14	554495	4	44
Huazhong University of Science &Tech	32971	7	15	37698	8	63	295508	11	147
Sichuan University	32721	8	16	34487	11	80	239295	13	193
Fudan University	32220	9	17	36964	9	66	399966	7	91
Shandong University	31291	10	19	34518	10	79	264856	12	167
Sun Yat-Sen University	30046	12	24	33246	13	87	329227	8	123
Harbin Institute of Technology	25232	16	40	40547	7	51	232041	14	203
Nanjing University	22537	19	52	29995	18	105	314018	10	133

Top 100 in the world: all for authors, 12 for publications and seven for citations.

ALL DATA: © 2018 Elsevier B.V. All rights reserved. SciVal, RELX Group and the RE symbol are trade marks of RELX Intellectual Properties SA, used under licens