

TABLE S5A-34

Indexes of internationally coauthored S&E publications, by selected region, country, or economy pairs: 1999 and 2018

(Index)

Region, country, or economy, and year	Canada	Mexico	United States	Argentina	Brazil	Chile	Austria	Belgium	Czechia	Denmark	Finland	France	Germany	Greece	Ireland	Italy	Netherlands	Poland	Portugal	Spain	Sweden	United Kingdom	Norway	Russia	Switzerland	Turkey	Iran	Israel	Saudi Arabia	Egypt	South Africa	China	India	Japan	Malaysia	Pakistan	Singapore	South Korea	Taiwan	Thailand	Australia	New Zealand
Singapore																																										
1996	0.67	0.18	0.65	0.00	0.10	0.00	0.16	0.10	0.00	0.41	0.50	0.12	0.16	0.00	0.41	0.09	0.08	0.16	0.00	0.07	0.32	1.06	0.15	0.04	0.17	0.15	0.96	0.20	0.00	0.00	0.59	3.13	1.80	0.84	6.36	0.00	na	0.23	1.93	2.91	1.84	0.89
2018	0.56	0.37	0.69	0.49	0.29	0.30	0.48	0.44	0.39	0.54	0.60	0.45	0.43	0.49	0.57	0.36	0.64	0.35	0.34	0.31	0.63	0.78	0.50	0.34	0.58	0.50	0.40	0.83	0.33	0.23	0.41	1.91	1.27	0.85	1.49	0.36	na	1.15	1.37	1.45	1.29	1.39
South Korea																																										
1996	0.35	0.37	1.44	0.38	0.23	0.06	0.54	0.11	0.13	0.39	0.32	0.27	0.28	0.78	0.13	0.37	0.35	0.29	0.09	0.37	0.15	0.25	0.10	0.58	0.43	0.30	0.62	0.31	0.10	0.52	0.04	1.05	0.66	1.89	0.13	0.47	0.23	na	1.10	0.34	0.46	0.34
2018	0.56	0.96	1.16	0.52	0.58	0.58	0.72	0.65	1.00	0.51	0.95	0.48	0.56	0.91	0.77	0.53	0.41	0.91	0.67	0.50	0.48	0.49	0.41	1.04	0.61	1.15	1.08	0.59	0.96	1.17	0.46	0.88	2.17	1.78	1.15	2.67	1.15	na	2.03	1.82	0.65	1.06
Taiwan																																										
1996	0.41	0.11	1.61	0.10	0.22	0.00	0.02	0.16	0.35	0.10	0.40	0.20	0.21	0.23	0.12	0.35	0.22	0.14	0.30	0.26	0.11	0.24	0.16	0.29	0.35	0.07	0.62	0.33	0.13	0.14	0.35	1.87	0.76	0.89	0.86	0.42	1.93	1.10	na	1.03	0.31	0.19
2018	0.69	1.21	0.97	1.50	0.92	1.36	1.24	0.79	1.96	0.81	1.19	0.65	0.63	1.87	1.23	0.70	0.63	1.63	1.33	0.73	0.60	0.58	0.82	1.41	0.94	1.93	0.97	1.17	0.90	1.16	1.11	1.68	1.71	2.23	2.34	1.27	1.37	2.03	na	3.06	0.85	1.45
Thailand																																										
1996	0.42	0.52	0.85	0.00	0.29	0.56	0.85	0.39	0.00	0.60	0.09	0.31	0.20	0.00	0.41	0.13	0.41	0.06	0.61	0.10	0.40	0.71	0.00	0.00	0.50	0.00	0.00	0.42	0.00	0.48	0.17	0.57	0.48	2.08	4.11	3.57	2.91	0.34	1.03	na	2.21	0.92
2018	0.49	2.06	0.80	0.59	1.20	0.59	1.78	1.16	2.00	0.65	1.72	0.79	0.63	2.08	2.02	0.68	0.68	1.44	1.43	0.59	0.69	0.97	0.71	1.06	1.04	2.19	1.67	0.38	0.81	1.59	1.51	0.65	1.80	3.04	4.06	2.51	1.45	1.82	3.06	na	1.17	2.70
Australia																																										
1996	0.75	0.27	0.73	0.51	0.31	0.60	0.40	0.34	0.30	0.49	0.37	0.36	0.46	0.16	0.52	0.30	0.45	0.19	0.17	0.19	0.72	1.08	0.34	0.24	0.45	0.15	2.27	0.47	0.29	0.16	1.52	0.89	0.64	0.59	1.44	0.29	1.84	0.46	0.31	2.21	na	4.09
2018	0.95	0.58	0.74	0.99	0.80	1.15	0.80	0.86	0.71	1.14	0.87	0.67	0.74	0.83	1.16	0.67	1.09	0.71	0.71	0.70	0.99	1.16	1.00	0.53	0.90	0.65	1.04	0.80	0.63	0.36	1.44	1.18	0.80	0.76	1.23	0.69	1.29	0.65	0.85	1.17	na	3.29
New Zealand																																										
1996	0.84	0.22	0.75	0.29	0.27	0.47	0.34	0.20	0.08	0.60	0.34	0.24	0.35	0.04	0.41	0.12	0.36	0.21	0.20	0.17	0.42	1.03	0.48	0.11	0.34	0.38	0.71	0.30	0.15	0.16	1.45	0.64	0.34	0.46	0.20	0.00	0.89	0.34	0.19	0.92	4.09	na
2018	1.13	1.92	0.80	1.02	1.07	1.36	1.35	1.48	1.66	1.15	1.84	0.88	0.88	1.70	2.74	0.90	0.93	1.26	1.44	0.87	0.96	1.37	1.01	0.82	1.14	1.52	1.41	0.87	0.70	1.43	1.30	0.74	0.93	0.75	1.89	1.68	1.39	1.06	1.45	2.70	3.29	na

na = not applicable.

Note(s)

Article counts refer to publications from a selection of journals and conference proceedings in S&E from Scopus. Articles are classified by their year of publication and are assigned to a region, country, or economy on the basis of the institutional address(es) of the author(s) listed in the article. Articles are credited on a whole-count basis (i.e., each collaborating region, country, or economy is credited with one count). Regions, countries, or economies that have contributed to less than 1% of all internationally coauthored articles in 2018 are omitted. The index of collaboration is calculated as follows: $IC_{xy} = (C_{xy}/C_x)/(C_y/C_w)$, where IC_{xy} = index of collaboration between country x and country y , C_{xy} = number of papers coauthored between country x and country y , C_x = total number of international coauthorships by country x , C_y = total number of international coauthorships by country y , and C_w = total number of international coauthorships in the database.

Source(s)

National Center for Science and Engineering Statistics, National Science Foundation; Science-Metrix; Elsevier, Scopus abstract and citation database, accessed June 2019.