

Appendix table 5-55

Indexes of internationally coauthored S&E articles, by selected country/economy pairs: 1997 and 2012

Country/economy and year	Canada	Mexico	United States	Argentina	Brazil	Chile	Austria	Belgium	Czech Republic	Denmark	Finland	France	Germany	Greece	Hungary	Ireland	Italy	Netherlands	Poland	Portugal
Canada																				
1997	na	0.63	1.19	0.41	0.61	0.49	0.34	0.38	0.40	0.51	0.46	0.58	0.38	0.42	0.55	0.44	0.43	0.50	0.45	0.29
2012	na	0.82	1.14	1.12	0.90	1.47	0.80	0.72	0.79	0.93	0.85	0.87	0.66	1.00	0.96	0.83	0.71	0.91	0.89	0.62
Mexico																				
1997	0.63	na	1.01	2.50	2.00	1.71	0.25	0.35	0.67	0.21	0.14	0.72	0.30	0.31	0.35	0.20	0.40	0.35	0.47	0.17
2012	0.82	na	1.08	3.88	2.94	3.50	1.44	1.12	3.57	0.81	1.68	1.11	0.75	2.69	3.45	1.31	1.09	0.82	2.07	2.23
United States																				
1997	1.19	1.01	na	0.78	0.83	0.73	0.60	0.51	0.48	0.66	0.71	0.57	0.67	0.68	0.70	0.52	0.72	0.67	0.51	0.46
2012	1.14	1.08	na	0.89	0.96	1.05	0.67	0.60	0.68	0.75	0.70	0.66	0.72	0.88	0.79	0.70	0.79	0.78	0.75	0.58
Argentina																				
1997	0.41	2.50	0.78	na	4.94	6.52	0.42	0.45	0.50	0.59	0.63	0.73	0.48	0.30	0.48	0.12	0.76	0.49	0.22	0.21
2012	1.12	3.88	0.89	na	5.81	9.20	2.00	0.66	3.64	1.87	0.45	1.21	0.95	3.05	4.23	1.00	1.48	1.20	2.32	2.81
Brazil																				
1997	0.61	2.00	0.83	4.94	na	4.42	0.58	0.65	0.94	0.65	0.68	0.90	0.53	0.75	0.21	0.26	0.85	0.39	0.60	2.10
2012	0.90	2.94	0.96	5.81	na	3.76	1.50	0.95	2.83	1.19	1.04	1.23	0.84	2.30	3.03	1.28	1.19	1.03	2.20	3.86
Chile																				
1997	0.49	1.71	0.73	6.52	4.42	na	0.37	0.80	0.30	0.50	0.68	0.85	0.73	0.48	0.19	0.19	0.53	0.31	0.56	0.51
2012	1.47	3.50	1.05	9.20	3.76	na	2.27	1.04	3.22	2.59	1.08	1.63	1.31	3.69	4.10	0.95	1.60	1.51	3.29	3.56
Austria																				
1997	0.34	0.25	0.60	0.42	0.58	0.37	na	0.94	2.51	1.01	1.25	0.61	1.73	1.85	2.05	1.00	1.00	0.95	0.97	1.40
2012	0.80	1.44	0.67	2.00	1.50	2.27	na	1.71	4.08	2.13	2.02	1.23	2.35	3.58	4.97	1.29	1.73	1.53	2.97	2.28
Belgium																				
1997	0.38	0.35	0.51	0.45	0.65	0.80	0.94	na	1.59	0.91	0.81	1.52	0.77	1.69	0.99	1.40	0.93	2.53	1.14	2.14
2012	0.72	1.12	0.60	0.66	0.95	1.04	1.71	na	1.71	1.46	1.43	1.84	1.15	2.17	2.35	1.03	1.53	2.86	1.87	1.78
Czech Republic																				
1997	0.40	0.67	0.48	0.50	0.94	0.30	2.51	1.59	na	1.05	1.23	1.07	1.30	2.04	1.26	0.33	1.00	0.97	1.76	2.14
2012	0.79	3.57	0.68	3.64	2.83	3.22	4.08	1.71	na	2.29	2.61	1.67	1.63	5.46	7.26	1.90	1.86	1.45	5.97	3.84
Denmark																				
1997	0.51	0.21	0.66	0.59	0.65	0.50	1.01	0.91	1.05	na	1.98	0.67	0.88	2.01	0.53	1.06	0.93	1.25	0.94	1.85
2012	0.93	0.81	0.75	1.87	1.19	2.59	2.13	1.46	2.29	na	2.98	1.19	1.30	2.89	3.10	1.49	1.51	2.04	2.21	2.13
Finland																				
1997	0.46	0.14	0.71	0.63	0.68	0.68	1.25	0.81	1.23	1.98	na	0.65	0.80	1.42	2.77	1.05	0.88	1.32	1.34	1.69
2012	0.85	1.68	0.70	0.45	1.04	1.08	2.02	1.43	2.61	2.98	na	1.08	1.29	3.74	3.56	1.60	1.59	1.64	2.73	2.10
France																				
1997	0.58	0.72	0.57	0.73	0.90	0.85	0.61	1.52	1.07	0.67	0.65	na	0.75	1.30	0.83	0.66	1.14	0.78	1.06	1.35
2012	0.87	1.11	0.66	1.21	1.23	1.63	1.23	1.84	1.67	1.19	1.08	na	1.06	1.75	1.67	1.10	1.58	1.19	1.67	1.47
Germany																				
1997	0.38	0.30	0.67	0.48	0.53	0.73	1.73	0.77	1.30	0.88	0.80	0.75	na	1.21	1.23	0.69	0.78	0.96	1.21	0.77
2012	0.66	0.75	0.72	0.95	0.84	1.31	2.35	1.15	1.63	1.30	1.29	1.06	na	1.62	1.77	1.16	1.21	1.44	1.69	1.01
Greece																				
1997	0.42	0.31	0.68	0.30	0.75	0.48	1.85	1.69	2.04	2.01	1.42	1.30	1.21	na	1.13	1.97	1.46	1.02	1.01	4.13
2012	1.00	2.69	0.88	3.05	2.30	3.69	3.58	2.17	5.46	2.89	3.74	1.75	1.62	na	6.70	1.45	2.60	2.02	4.29	3.73

Appendix table 5-55

Indexes of internationally coauthored S&E articles, by selected country/economy pairs: 1997 and 2012

Country/economy and year	Canada	Mexico	United States	Argentina	Brazil	Chile	Austria	Belgium	Czech Republic	Denmark	Finland	France	Germany	Greece	Hungary	Ireland	Italy	Netherlands	Poland	Portugal
Hungary																				
1997	0.55	0.35	0.70	0.48	0.21	0.19	2.05	0.99	1.26	0.53	2.77	0.83	1.23	1.13	na	0.95	1.13	1.02	1.24	0.34
2012	0.96	3.45	0.79	4.23	3.03	4.10	4.97	2.35	7.26	3.10	3.56	1.67	1.77	6.70	na	0.90	2.23	1.83	5.43	4.73
Ireland																				
1997	0.44	0.20	0.52	0.12	0.26	0.19	1.00	1.40	0.33	1.06	1.05	0.66	0.69	1.97	0.95	na	0.79	1.55	0.33	1.79
2012	0.83	1.31	0.70	1.00	1.28	0.95	1.29	1.03	1.90	1.49	1.60	1.10	1.16	1.45	0.90	na	1.23	1.69	2.29	1.00
Italy																				
1997	0.43	0.40	0.72	0.76	0.85	0.53	1.00	0.93	1.00	0.93	0.88	1.14	0.78	1.46	1.13	0.79	na	0.97	1.02	1.42
2012	0.71	1.09	0.79	1.48	1.19	1.60	1.73	1.53	1.86	1.51	1.59	1.58	1.21	2.60	2.23	1.23	na	1.48	1.94	1.71
Netherlands																				
1997	0.50	0.35	0.67	0.49	0.39	0.31	0.95	2.53	0.97	1.25	1.32	0.78	0.96	1.02	1.02	1.55	0.97	na	0.80	1.73
2012	0.91	0.82	0.78	1.20	1.03	1.51	1.53	2.86	1.45	2.04	1.64	1.19	1.44	2.02	1.83	1.69	1.48	na	1.67	1.55
Poland																				
1997	0.45	0.47	0.51	0.22	0.60	0.56	0.97	1.14	1.76	0.94	1.34	1.06	1.21	1.01	1.24	0.33	1.02	0.80	na	1.27
2012	0.89	2.07	0.75	2.32	2.20	3.29	2.97	1.87	5.97	2.21	2.73	1.67	1.69	4.29	5.43	2.29	1.94	1.67	na	3.23
Portugal																				
1997	0.29	0.17	0.46	0.21	2.10	0.51	1.40	2.14	2.14	1.85	1.69	1.35	0.77	4.13	0.34	1.79	1.42	1.73	1.27	na
2012	0.62	2.23	0.58	2.81	3.86	3.56	2.28	1.78	3.84	2.13	2.10	1.47	1.01	3.73	4.73	1.00	1.71	1.55	3.23	na
Spain																				
1997	0.32	1.73	0.59	2.91	1.11	2.24	0.91	1.09	0.76	1.06	1.04	1.30	0.71	1.49	0.77	0.88	1.32	1.04	0.86	3.31
2012	0.64	2.90	0.68	3.05	1.63	2.81	1.47	1.38	1.84	1.49	1.57	1.44	1.09	2.51	2.21	1.43	1.90	1.33	1.87	3.45
Sweden																				
1997	0.42	0.27	0.65	0.51	0.49	0.73	0.69	1.07	1.09	2.74	3.34	0.61	0.74	1.08	0.75	0.74	0.77	0.95	1.27	1.51
2012	0.79	0.96	0.71	1.63	1.06	1.62	1.84	1.26	2.22	3.88	4.12	1.09	1.20	2.45	2.76	1.69	1.30	1.70	1.85	1.52
United Kingdom																				
1997	0.60	0.44	0.68	0.47	0.67	0.45	0.61	0.83	0.73	0.98	0.78	0.71	0.70	1.41	0.75	2.33	0.87	1.04	0.58	1.52
2012	0.85	0.79	0.77	0.73	0.89	1.16	1.10	1.17	1.18	1.40	1.28	1.01	0.98	1.66	1.38	2.17	1.22	1.45	1.20	1.20
Norway																				
1997	0.39	0.23	0.59	0.06	0.84	0.18	1.17	0.97	1.38	3.81	3.73	0.63	0.75	2.31	0.72	1.52	0.74	1.47	1.14	2.53
2012	1.16	0.88	0.72	2.20	1.37	2.85	2.07	1.07	2.74	4.96	3.10	1.18	1.08	3.28	3.35	1.47	1.36	1.97	2.47	2.30
Russia																				
1997	0.36	0.79	0.53	0.31	0.69	0.20	0.71	0.72	1.27	0.83	1.37	0.86	1.21	0.60	0.72	0.33	0.83	0.71	1.40	0.77
2012	0.74	2.12	0.70	1.76	1.84	2.09	1.95	1.03	3.88	1.27	2.96	1.45	1.68	2.97	3.67	1.67	1.43	1.15	3.70	1.98
Switzerland																				
1997	0.55	0.24	0.72	0.59	0.56	0.32	1.60	1.01	1.10	0.98	1.05	1.18	1.38	1.48	1.30	0.69	1.46	1.09	0.85	1.09
2012	0.78	0.95	0.78	1.40	1.22	1.41	2.28	1.49	2.10	1.51	1.60	1.49	1.76	2.28	2.39	1.11	1.65	1.45	1.97	1.37
Iran																				
1997	1.16	0.00	0.55	0.00	0.58	0.00	0.56	0.91	0.46	0.00	0.00	0.19	0.33	1.10	0.44	0.00	0.31	0.11	0.00	0.00
2012	1.15	2.06	0.59	0.43	1.20	0.38	1.68	1.38	2.25	0.67	1.76	0.69	0.63	2.09	2.64	0.32	1.09	0.61	1.62	1.94
Israel																				
1997	0.64	0.55	1.25	0.32	0.43	0.46	0.36	0.41	0.56	0.45	0.53	0.63	0.79	0.37	1.29	0.42	0.68	0.55	0.43	0.36
2012	1.11	0.86	1.29	2.52	1.36	3.14	1.71	0.78	2.40	1.76	0.79	0.99	1.17	2.62	3.11	0.51	1.28	1.33	2.01	1.82

Appendix table 5-55

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Country/economy and year	Canada	Mexico	United States	Argentina	Brazil	Chile	Austria	Belgium	Czech Republic	Denmark	Finland	France	Germany	Greece	Hungary	Ireland	Italy	Netherlands	Poland	Portugal
Saudi Arabia																				
1997	0.92	0.00	0.79	0.81	0.35	0.00	0.51	0.99	0.55	0.14	0.56	0.32	0.27	0.67	0.80	0.00	0.19	0.20	0.56	0.46
2012	0.72	0.55	0.56	0.15	0.33	0.19	0.31	0.32	0.57	0.27	0.49	0.40	0.53	0.94	0.39	0.34	0.46	0.43	0.48	0.41
Turkey																				
1997	0.36	0.38	0.75	0.92	0.33	0.25	0.38	0.54	0.31	0.41	0.70	0.48	0.52	0.62	1.00	0.00	0.60	0.60	0.53	0.17
2012	0.95	3.13	0.94	3.89	2.63	3.87	3.38	1.54	5.11	2.24	2.32	1.17	1.19	5.92	6.86	0.79	1.78	1.57	3.94	3.76
Egypt																				
1997	0.44	0.48	0.85	0.39	0.00	0.62	0.48	0.52	0.52	0.00	0.89	0.19	0.65	0.00	0.63	0.25	0.66	0.60	0.40	0.22
2012	0.54	2.81	0.53	0.32	1.47	0.23	1.66	1.15	2.64	0.28	2.06	0.56	0.96	2.85	3.26	0.39	0.85	0.23	1.83	2.02
South Africa																				
1997	0.67	0.26	0.72	1.07	0.69	1.03	1.11	0.93	0.51	0.40	0.44	0.45	0.74	0.52	0.35	1.12	0.46	0.54	0.59	0.61
2012	1.16	1.49	0.91	3.61	2.05	4.47	2.04	1.22	3.23	2.34	0.96	1.21	0.96	2.90	4.13	0.98	1.08	1.62	2.70	2.23
China																				
1997	0.80	0.16	0.79	0.22	0.28	0.24	0.42	0.28	0.18	0.54	0.60	0.39	0.57	0.65	0.55	0.16	0.48	0.53	0.15	0.28
2012	0.74	0.56	1.10	0.51	0.51	0.52	0.49	0.36	0.75	0.57	0.46	0.41	0.48	0.62	0.83	0.53	0.32	0.43	0.60	0.54
India																				
1997	0.63	1.01	0.90	0.78	0.86	0.45	0.28	0.45	0.30	0.45	0.84	0.67	0.80	0.27	1.09	0.07	0.67	0.69	0.31	0.19
2012	0.64	1.84	0.79	0.78	1.25	0.53	0.89	0.71	1.99	0.49	1.00	0.81	0.76	1.28	1.77	0.80	0.73	0.57	1.64	1.28
Japan																				
1997	0.61	0.12	1.00	0.31	0.42	0.18	0.29	0.34	0.54	0.38	0.47	0.38	0.54	0.30	0.78	0.32	0.41	0.44	0.52	0.21
2012	0.67	0.62	0.86	0.89	0.60	1.16	0.84	0.49	1.28	0.73	0.76	0.69	0.72	1.07	1.34	0.51	0.69	0.56	1.09	0.66
Singapore																				
1997	0.53	0.15	0.72	0.18	0.08	0.87	0.30	0.15	0.00	0.18	0.42	0.09	0.12	0.15	0.12	0.95	0.11	0.06	0.00	0.21
2012	0.45	0.21	0.74	0.10	0.33	0.13	0.42	0.30	0.41	0.42	0.36	0.36	0.31	0.55	0.17	0.50	0.30	0.44	0.40	0.23
South Korea																				
1997	0.37	0.46	1.38	0.61	0.31	0.24	0.50	0.22	0.03	0.43	0.74	0.36	0.35	0.83	0.92	0.60	0.54	0.39	0.38	0.06
2012	0.54	1.15	1.25	0.39	0.71	0.43	0.61	0.43	1.32	0.34	0.98	0.44	0.49	1.12	1.32	0.50	0.51	0.37	0.98	0.61
Taiwan																				
1997	0.63	0.07	1.53	0.16	0.28	0.00	0.00	0.07	0.05	0.00	0.22	0.20	0.21	0.07	0.21	0.00	0.34	0.13	0.08	0.19
2012	0.88	1.91	1.22	2.25	1.58	3.27	1.84	0.67	3.20	1.30	2.00	0.73	0.68	3.52	3.69	0.64	0.94	0.70	2.36	2.28
Australia																				
1997	0.80	0.20	0.81	0.27	0.34	0.28	0.45	0.36	0.27	0.61	0.45	0.40	0.50	0.17	0.22	0.65	0.41	0.57	0.31	0.17
2012	1.00	0.79	0.76	1.12	0.92	1.35	1.10	0.75	1.14	1.18	0.89	0.71	0.72	1.01	1.21	0.97	0.72	0.99	1.03	0.94
New Zealand																				
1997	1.01	0.21	0.81	0.42	0.37	0.14	0.56	0.37	0.40	0.83	0.55	0.32	0.36	0.21	0.39	0.44	0.31	0.41	0.18	0.29
2012	0.85	1.96	0.79	0.60	1.15	0.78	1.44	1.36	1.88	0.99	1.76	0.66	0.70	1.82	2.48	1.06	0.90	0.81	1.45	1.40

Appendix table 5-55

Indexes of internationally coauthored S&E articles, by selected country/economy pairs: 1997 and 2012

Country/economy and year	Spain	Sweden	United Kingdom	Norway	Russia	Switzerland	Iran	Israel	Saudi Arabia	Turkey	Egypt	South Africa	China	India	Japan	Singapore	South Korea	Taiwan	Australia	New Zealand
Canada																				
1997	0.32	0.42	0.60	0.39	0.36	0.55	1.16	0.64	0.92	0.36	0.44	0.67	0.80	0.63	0.61	0.53	0.37	0.63	0.80	1.01
2012	0.64	0.79	0.85	1.16	0.74	0.78	1.15	1.11	0.72	0.95	0.54	1.16	0.74	0.64	0.67	0.45	0.54	0.88	1.00	0.85
Mexico																				
1997	1.73	0.27	0.44	0.23	0.79	0.24	0.00	0.55	0.00	0.38	0.48	0.26	0.16	1.01	0.12	0.15	0.46	0.07	0.20	0.21
2012	2.90	0.96	0.79	0.88	2.12	0.95	2.06	0.86	0.55	3.13	2.81	1.49	0.56	1.84	0.62	0.21	1.15	1.91	0.79	1.96
United States																				
1997	0.59	0.65	0.68	0.59	0.53	0.72	0.55	1.25	0.79	0.75	0.85	0.72	0.79	0.90	1.00	0.72	1.38	1.53	0.81	0.81
2012	0.68	0.71	0.77	0.72	0.70	0.78	0.59	1.29	0.56	0.94	0.53	0.91	1.10	0.79	0.86	0.74	1.25	1.22	0.76	0.79
Argentina																				
1997	2.91	0.51	0.47	0.06	0.31	0.59	0.00	0.32	0.81	0.92	0.39	1.07	0.22	0.78	0.31	0.18	0.61	0.16	0.27	0.42
2012	3.05	1.63	0.73	2.20	1.76	1.40	0.43	2.52	0.15	3.89	0.32	3.61	0.51	0.78	0.89	0.10	0.39	2.25	1.12	0.60
Brazil																				
1997	1.11	0.49	0.67	0.84	0.69	0.56	0.58	0.43	0.35	0.33	0.00	0.69	0.28	0.86	0.42	0.08	0.31	0.28	0.34	0.37
2012	1.63	1.06	0.89	1.37	1.84	1.22	1.20	1.36	0.33	2.63	1.47	2.05	0.51	1.25	0.60	0.33	0.71	1.58	0.92	1.15
Chile																				
1997	2.24	0.73	0.45	0.18	0.20	0.32	0.00	0.46	0.00	0.25	0.62	1.03	0.24	0.45	0.18	0.87	0.24	0.00	0.28	0.14
2012	2.81	1.62	1.16	2.85	2.09	1.41	0.38	3.14	0.19	3.87	0.23	4.47	0.52	0.53	1.16	0.13	0.43	3.27	1.35	0.78
Austria																				
1997	0.91	0.69	0.61	1.17	0.71	1.60	0.56	0.36	0.51	0.38	0.48	1.11	0.42	0.28	0.29	0.30	0.50	0.00	0.45	0.56
2012	1.47	1.84	1.10	2.07	1.95	2.28	1.68	1.71	0.31	3.38	1.66	2.04	0.49	0.89	0.84	0.42	0.61	1.84	1.10	1.44
Belgium																				
1997	1.09	1.07	0.83	0.97	0.72	1.01	0.91	0.41	0.99	0.54	0.52	0.93	0.28	0.45	0.34	0.15	0.22	0.07	0.36	0.37
2012	1.38	1.26	1.17	1.07	1.03	1.49	1.38	0.78	0.32	1.54	1.15	1.22	0.36	0.71	0.49	0.30	0.43	0.67	0.75	1.36
Czech Republic																				
1997	0.76	1.09	0.73	1.38	1.27	1.10	0.46	0.56	0.55	0.31	0.52	0.51	0.18	0.30	0.54	0.00	0.03	0.05	0.27	0.40
2012	1.84	2.22	1.18	2.74	3.88	2.10	2.25	2.40	0.57	5.11	2.64	3.23	0.75	1.99	1.28	0.41	1.32	3.20	1.14	1.88
Denmark																				
1997	1.06	2.74	0.98	3.81	0.83	0.98	0.00	0.45	0.14	0.41	0.00	0.40	0.54	0.45	0.38	0.18	0.43	0.00	0.61	0.83
2012	1.49	3.88	1.40	4.96	1.27	1.51	0.67	1.76	0.27	2.24	0.28	2.34	0.57	0.49	0.73	0.42	0.34	1.30	1.18	0.99
Finland																				
1997	1.04	3.34	0.78	3.73	1.37	1.05	0.00	0.53	0.56	0.70	0.89	0.44	0.60	0.84	0.47	0.42	0.74	0.22	0.45	0.55
2012	1.57	4.12	1.28	3.10	2.96	1.60	1.76	0.79	0.49	2.32	2.06	0.96	0.46	1.00	0.76	0.36	0.98	2.00	0.89	1.76
France																				
1997	1.30	0.61	0.71	0.63	0.86	1.18	0.19	0.63	0.32	0.48	0.19	0.45	0.39	0.67	0.38	0.09	0.36	0.20	0.40	0.32
2012	1.44	1.09	1.01	1.18	1.45	1.49	0.69	0.99	0.40	1.17	0.56	1.21	0.41	0.81	0.69	0.36	0.44	0.73	0.71	0.66
Germany																				
1997	0.71	0.74	0.70	0.75	1.21	1.38	0.33	0.79	0.27	0.52	0.65	0.74	0.57	0.80	0.54	0.12	0.35	0.21	0.50	0.36
2012	1.09	1.20	0.98	1.08	1.68	1.76	0.63	1.17	0.53	1.19	0.96	0.96	0.48	0.76	0.72	0.31	0.49	0.68	0.72	0.70
Greece																				
1997	1.49	1.08	1.41	2.31	0.60	1.48	1.10	0.37	0.67	0.62	0.00	0.52	0.65	0.27	0.30	0.15	0.83	0.07	0.17	0.21
2012	2.51	2.45	1.66	3.28	2.97	2.28	2.09	2.62	0.94	5.92	2.85	2.90	0.62	1.28	1.07	0.55	1.12	3.52	1.01	1.82

Appendix table 5-55

Indexes of internationally coauthored S&E articles, by selected country/economy pairs: 1997 and 2012

Country/economy and year	Spain	Sweden	United Kingdom	Norway	Russia	Switzerland	Iran	Israel	Saudi Arabia	Turkey	Egypt	South Africa	China	India	Japan	Singapore	South Korea	Taiwan	Australia	New Zealand
Hungary																				
1997	0.77	0.75	0.75	0.72	0.72	1.30	0.44	1.29	0.80	1.00	0.63	0.35	0.55	1.09	0.78	0.12	0.92	0.21	0.22	0.39
2012	2.21	2.76	1.38	3.35	3.67	2.39	2.64	3.11	0.39	6.86	3.26	4.13	0.83	1.77	1.34	0.17	1.32	3.69	1.21	2.48
Ireland																				
1997	0.88	0.74	2.33	1.52	0.33	0.69	0.00	0.42	0.00	0.00	0.25	1.12	0.16	0.07	0.32	0.95	0.60	0.00	0.65	0.44
2012	1.43	1.69	2.17	1.47	1.67	1.11	0.32	0.51	0.34	0.79	0.39	0.98	0.53	0.80	0.51	0.50	0.50	0.64	0.97	1.06
Italy																				
1997	1.32	0.77	0.87	0.74	0.83	1.46	0.31	0.68	0.19	0.60	0.66	0.46	0.48	0.67	0.41	0.11	0.54	0.34	0.41	0.31
2012	1.90	1.30	1.22	1.36	1.43	1.65	1.09	1.28	0.46	1.78	0.85	1.08	0.32	0.73	0.69	0.30	0.51	0.94	0.72	0.90
Netherlands																				
1997	1.04	0.95	1.04	1.47	0.71	1.09	0.11	0.55	0.20	0.60	0.60	0.54	0.53	0.69	0.44	0.06	0.39	0.13	0.57	0.41
2012	1.33	1.70	1.45	1.97	1.15	1.45	0.61	1.33	0.43	1.57	0.23	1.62	0.43	0.57	0.56	0.44	0.37	0.70	0.99	0.81
Poland																				
1997	0.86	1.27	0.58	1.14	1.40	0.85	0.00	0.43	0.56	0.53	0.40	0.59	0.15	0.31	0.52	0.00	0.38	0.08	0.31	0.18
2012	1.87	1.85	1.20	2.47	3.70	1.97	1.62	2.01	0.48	3.94	1.83	2.70	0.60	1.64	1.09	0.40	0.98	2.36	1.03	1.45
Portugal																				
1997	3.31	1.51	1.52	2.53	0.77	1.09	0.00	0.36	0.46	0.17	0.22	0.61	0.28	0.19	0.21	0.21	0.06	0.19	0.17	0.29
2012	3.45	1.52	1.20	2.30	1.98	1.37	1.94	1.82	0.41	3.76	2.02	2.23	0.54	1.28	0.66	0.23	0.61	2.28	0.94	1.40
Spain																				
1997	na	0.57	0.92	0.89	0.68	0.86	0.00	0.50	0.47	0.70	0.33	0.43	0.42	0.56	0.23	0.10	0.67	0.14	0.26	0.36
2012	na	1.28	1.16	1.38	1.41	1.19	0.92	1.14	0.41	1.59	0.71	1.09	0.30	0.76	0.56	0.27	0.49	0.96	0.66	0.71
Sweden																				
1997	0.57	na	0.74	4.38	0.83	0.81	0.13	0.26	0.96	0.48	0.08	0.29	0.48	0.40	0.50	0.50	0.19	0.13	0.68	0.53
2012	1.28	na	1.23	4.61	1.46	1.31	0.79	1.31	0.25	1.65	0.45	2.03	0.56	0.65	0.73	0.46	0.48	0.87	0.93	0.64
United Kingdom																				
1997	0.92	0.74	na	0.98	0.50	0.79	1.31	0.51	1.01	1.17	0.41	1.30	0.60	0.67	0.52	0.78	0.30	0.27	1.04	1.01
2012	1.16	1.23	na	1.36	0.88	1.12	0.66	0.91	0.58	1.07	0.74	1.49	0.56	0.68	0.62	0.67	0.47	0.71	1.24	1.30
Norway																				
1997	0.89	4.38	0.98	na	1.01	0.93	0.40	0.46	0.00	0.37	0.47	0.58	0.30	0.17	0.30	0.22	0.15	0.05	0.54	0.41
2012	1.38	4.61	1.36	na	1.97	1.36	0.35	2.03	0.20	2.59	0.31	3.23	0.48	0.64	0.78	0.34	0.24	1.59	1.06	0.73
Russia																				
1997	0.68	0.83	0.50	1.01	na	0.74	0.10	0.77	0.12	0.65	0.18	0.33	0.35	0.61	0.66	0.03	0.92	0.22	0.22	0.14
2012	1.41	1.46	0.88	1.97	na	1.52	1.15	1.94	0.23	2.80	1.20	1.76	0.70	1.44	1.18	0.26	1.35	2.50	0.72	0.92
Switzerland																				
1997	0.86	0.81	0.79	0.93	0.74	na	0.36	0.81	0.36	0.71	0.38	0.61	0.40	0.66	0.55	0.16	0.52	0.45	0.44	0.41
2012	1.19	1.31	1.12	1.36	1.52	na	1.01	1.30	0.34	1.75	0.94	1.50	0.39	0.77	0.77	0.46	0.65	1.26	0.85	1.04
Iran																				
1997	0.00	0.13	1.31	0.40	0.10	0.36	na	0.00	2.97	1.11	0.00	0.00	0.90	2.84	0.82	0.00	0.00	1.18	1.81	0.62
2012	0.92	0.79	0.66	0.35	1.15	1.01	na	0.26	0.84	4.51	3.27	1.54	0.42	1.58	0.45	0.48	1.14	1.50	1.23	2.80
Israel																				
1997	0.50	0.26	0.51	0.46	0.77	0.81	0.00	na	0.42	1.11	0.27	0.93	0.25	0.31	0.45	0.38	0.33	0.11	0.58	0.32
2012	1.14	1.31	0.91	2.03	1.94	1.30	0.26	na	0.20	3.23	0.41	2.27	0.48	0.99	0.88	0.65	0.42	1.63	0.96	0.65

Appendix table 5-55

Indexes of internationally coauthored S&E articles, by selected country/economy pairs: 1997 and 2012

Country/economy and year	Spain	Sweden	United Kingdom	Norway	Russia	Switzerland	Iran	Israel	Saudi Arabia	Turkey	Egypt	South Africa	China	India	Japan	Singapore	South Korea	Taiwan	Australia	New Zealand
Saudi Arabia																				
1997	0.47	0.96	1.01	0.00	0.12	0.36	2.97	0.42	na	5.38	15.40	0.94	0.22	0.98	0.76	0.00	0.67	0.36	0.34	0.37
2012	0.41	0.25	0.58	0.20	0.23	0.34	0.84	0.20	na	2.81	21.75	0.66	0.67	2.30	0.38	0.99	0.89	0.54	0.49	0.44
Turkey																				
1997	0.70	0.48	1.17	0.37	0.65	0.71	1.11	1.11	5.38	na	0.00	0.35	0.37	0.00	0.55	0.00	0.42	0.13	0.25	0.42
2012	1.59	1.65	1.07	2.59	2.80	1.75	4.51	3.23	2.81	na	4.83	3.58	0.73	1.87	1.07	0.60	1.14	3.28	1.10	2.22
Egypt																				
1997	0.33	0.08	0.41	0.47	0.18	0.38	0.00	0.27	15.40	0.00	na	0.67	0.36	0.93	0.85	1.14	0.64	0.34	0.08	0.00
2012	0.71	0.45	0.74	0.31	1.20	0.94	3.27	0.41	21.75	4.83	na	0.71	0.44	1.46	1.10	0.16	1.57	2.00	0.47	2.70
South Africa																				
1997	0.43	0.29	1.30	0.58	0.33	0.61	0.00	0.93	0.94	0.35	0.67	na	0.32	0.77	0.29	0.63	0.12	0.09	1.80	1.18
2012	1.09	2.03	1.49	3.23	1.76	1.50	1.54	2.27	0.66	3.58	0.71	na	0.56	1.31	0.89	0.20	0.38	2.02	1.85	1.40
China																				
1997	0.42	0.48	0.60	0.30	0.35	0.40	0.90	0.25	0.22	0.37	0.36	0.32	na	0.89	1.61	4.82	1.83	1.94	0.92	0.64
2012	0.30	0.56	0.56	0.48	0.70	0.39	0.42	0.48	0.67	0.73	0.44	0.56	na	0.49	1.23	2.22	0.99	1.80	1.11	0.59
India																				
1997	0.56	0.40	0.67	0.17	0.61	0.66	2.84	0.31	0.98	0.00	0.93	0.77	0.89	na	0.78	1.31	1.55	0.83	0.52	0.41
2012	0.76	0.65	0.68	0.64	1.44	0.77	1.58	0.99	2.30	1.87	1.46	1.31	0.49	na	1.06	1.30	2.42	2.01	0.79	1.12
Japan																				
1997	0.23	0.50	0.52	0.30	0.66	0.55	0.82	0.45	0.76	0.55	0.85	0.29	1.61	0.78	na	0.64	2.20	1.03	0.74	0.60
2012	0.56	0.73	0.62	0.78	1.18	0.77	0.45	0.88	0.38	1.07	1.10	0.89	1.23	1.06	na	0.77	1.93	2.14	0.79	0.54
Singapore																				
1997	0.10	0.50	0.78	0.22	0.03	0.16	0.00	0.38	0.00	0.00	1.14	0.63	4.82	1.31	0.64	na	0.40	3.19	2.22	1.67
2012	0.27	0.46	0.67	0.34	0.26	0.46	0.48	0.65	0.99	0.60	0.16	0.20	2.22	1.30	0.77	na	1.08	1.48	1.48	1.06
South Korea																				
1997	0.67	0.19	0.30	0.15	0.92	0.52	0.00	0.33	0.67	0.42	0.64	0.12	1.83	1.55	2.20	0.40	na	0.89	0.39	0.60
2012	0.49	0.48	0.47	0.24	1.35	0.65	1.14	0.42	0.89	1.14	1.57	0.38	0.99	2.42	1.93	1.08	na	1.76	0.54	0.90
Taiwan																				
1997	0.14	0.13	0.27	0.05	0.22	0.45	1.18	0.11	0.36	0.13	0.34	0.09	1.94	0.83	1.03	3.19	0.89	na	0.47	0.37
2012	0.96	0.87	0.71	1.59	2.50	1.26	1.50	1.63	0.54	3.28	2.00	2.02	1.80	2.01	2.14	1.48	1.76	na	1.14	1.60

Appendix table 5-55

Indexes of internationally coauthored S&E articles, by selected country/economy pairs: 1997 and 2012

Country/economy and year	Spain	Sweden	United Kingdom	Norway	Russia	Switzerland	Iran	Israel	Saudi Arabia	Turkey	Egypt	South Africa	China	India	Japan	Singapore	South Korea	Taiwan	Australia	New Zealand
Australia																				
1997	0.26	0.68	1.04	0.54	0.22	0.44	1.81	0.58	0.34	0.25	0.08	1.80	0.92	0.52	0.74	2.22	0.39	0.47	na	4.33
2012	0.66	0.93	1.24	1.06	0.72	0.85	1.23	0.96	0.49	1.10	0.47	1.85	1.11	0.79	0.79	1.48	0.54	1.14	na	3.65
New Zealand																				
1997	0.36	0.53	1.01	0.41	0.14	0.41	0.62	0.32	0.37	0.42	0.00	1.18	0.64	0.41	0.60	1.67	0.60	0.37	4.33	na
2012	0.71	0.64	1.30	0.73	0.92	1.04	2.80	0.65	0.44	2.22	2.70	1.40	0.59	1.12	0.54	1.06	0.90	1.60	3.65	na

na = not applicable.

NOTES: Article counts are from the set of journals covered by the Science Citation Index (SCI) and Social Sciences Citation Index (SSCI). Articles are classified by the year they entered the database, rather than the year of publication, and are assigned to a country/economy on the basis of the institutional address(es) listed in the article. Articles are credited on a whole-count basis (i.e., each collaborating country/economy is credited one count). Countries/economies with less than 1% of internationally coauthored articles in 2012 are omitted.

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