

Appendix table 5-50

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Relative prominence of cited S&E literature, by selected field and country/economy: 1994 and 2001

Field, rank, and country/economy	1994	2001	Field, rank, and country/economy	1994	2001
All fields			Clinical medicine		
1 Switzerland.....	1.19	1.19	1 United States.....	0.99	0.99
2 United States.....	1.01	1.01	2 Switzerland.....	0.98	0.96
3 Netherlands.....	0.88	0.95	3 Canada.....	0.83	0.92
4 Denmark.....	0.84	0.90	4 Netherlands.....	0.84	0.90
5 Sweden.....	0.87	0.86	5 Finland.....	0.69	0.87
6 United Kingdom.....	0.83	0.85	6 Ireland.....	0.77	0.82
7 Finland.....	0.71	0.83	7 United Kingdom.....	0.80	0.81
8 Canada.....	0.72	0.82	8 Belgium.....	0.81	0.81
9 Belgium.....	0.81	0.81	9 Sweden.....	0.78	0.81
10 Germany.....	0.74	0.80	10 Denmark.....	0.69	0.80
11 Austria.....	0.70	0.78	11 New Zealand.....	0.69	0.75
12 Ireland.....	0.68	0.77	12 Norway.....	0.59	0.75
13 France.....	0.73	0.76	13 Italy.....	0.62	0.74
14 Israel.....	0.67	0.74	14 France.....	0.67	0.73
15 Italy.....	0.62	0.71	15 Australia.....	0.67	0.73
16 Norway.....	0.61	0.68	16 Germany.....	0.57	0.69
17 Australia.....	0.61	0.67	17 Austria.....	0.61	0.65
18 New Zealand.....	0.56	0.60	18 Israel.....	0.52	0.62
19 Spain.....	0.45	0.57	19 Spain.....	0.50	0.57
20 Japan.....	0.55	0.57	20 Hong Kong.....	0.50	0.57
21 Hong Kong.....	0.43	0.53	21 Hungary.....	0.44	0.55
22 Hungary.....	0.40	0.49	22 Japan.....	0.53	0.54
23 Portugal.....	0.40	0.47	23 Thailand.....	na	0.53
24 Chile.....	0.33	0.43	24 Portugal.....	na	0.53
25 Singapore.....	0.39	0.43	25 South Korea.....	0.49	0.52
26 Greece.....	0.32	0.42	26 Czech Republic.....	na	0.45
27 Slovenia.....	na	0.41	27 Greece.....	0.34	0.44
28 Argentina.....	0.33	0.39	28 Singapore.....	0.40	0.42
29 Czech Republic.....	na	0.38	29 Poland.....	0.37	0.42
30 Mexico.....	0.36	0.37	30 Mexico.....	0.42	0.42
31 South Africa.....	0.34	0.37	31 Taiwan.....	0.46	0.39
32 South Korea.....	0.34	0.37	32 Argentina.....	0.33	0.39
33 Brazil.....	0.30	0.35	33 South Africa.....	0.34	0.39
34 Poland.....	0.28	0.34	34 Brazil.....	0.31	0.38
35 Taiwan.....	0.33	0.34	35 China.....	0.27	0.31
36 Bulgaria.....	0.19	0.29	36 Egypt.....	0.21	0.30
37 Slovakia.....	na	0.28	37 Chile.....	0.17	0.30
38 Croatia.....	na	0.27	38 Saudi Arabia.....	0.29	0.29
39 Iran.....	na	0.27	39 India.....	0.19	0.25
40 Saudi Arabia.....	0.25	0.26	40 Turkey.....	0.19	0.25

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Relative prominence of cited S&E literature, by selected field and country/economy: 1994 and 2001

Field, rank, and country/economy	1994	2001	Field, rank, and country/economy	1994	2001
Biomedical research			Biology		
1 Switzerland.....	1.17	1.24	1 Switzerland	1.06	1.18
2 United States.....	1.14	1.13	2 Netherlands.....	0.86	1.00
3 Israel	0.80	0.89	3 Sweden	0.93	1.00
4 United Kingdom	0.86	0.89	4 United Kingdom.....	0.81	0.98
5 Germany.....	0.83	0.81	5 Denmark	0.92	0.89
6 Netherlands.....	0.73	0.80	6 Hong Kong.....	na	0.88
7 Canada.....	0.68	0.78	7 Austria.....	0.57	0.87
8 Austria.....	0.78	0.77	8 Estonia	na	0.86
9 Singapore.....	0.53	0.74	9 France.....	0.65	0.85
10 Finland	0.60	0.74	10 Finland	0.68	0.84
11 Sweden	0.70	0.74	11 Germany	0.73	0.82
12 France	0.70	0.73	12 Norway.....	0.73	0.82
13 Denmark	0.69	0.70	13 Belgium.....	0.72	0.82
14 Belgium	0.69	0.67	14 United States.....	0.79	0.80
15 Australia	0.57	0.66	15 Ireland.....	0.81	0.77
16 Ireland.....	0.52	0.65	16 Israel	0.73	0.73
17 Japan	0.58	0.58	17 Canada.....	0.68	0.72
18 Norway.....	0.55	0.57	18 Indonesia.....	na	0.71
19 New Zealand	0.46	0.55	19 Philippines.....	0.39	0.66
20 Italy	0.46	0.54	20 Australia	0.61	0.63
21 Spain.....	0.32	0.46	21 Italy	0.56	0.63
22 Hong Kong.....	na	0.43	22 Hungary	0.54	0.60
23 Chile.....	0.27	0.40	23 South Korea.....	0.63	0.60
24 Portugal.....	0.28	0.40	24 New Zealand	0.54	0.57
25 Hungary.....	0.33	0.39	25 Portugal.....	0.58	0.57
26 Mexico.....	0.27	0.34	26 Kenya.....	0.37	0.56
27 Greece.....	0.28	0.34	27 Czech Republic.....	na	0.56
28 Taiwan.....	0.34	0.32	28 Colombia	0.52	0.55
29 South Korea.....	0.27	0.32	29 Spain.....	0.38	0.55
30 Czech Republic.....	na	0.29	30 South Africa.....	0.41	0.50
31 Poland	0.21	0.27	31 Thailand	0.47	0.50
32 South Africa.....	0.22	0.26	32 Venezuela.....	0.44	0.48
33 Argentina.....	0.23	0.25	33 Japan.....	0.46	0.47
34 Brazil	0.16	0.22	34 Argentina.....	0.45	0.47
35 Slovakia.....	na	0.21	35 Chile.....	0.49	0.44
36 Turkey	na	0.18	36 Poland.....	0.38	0.44
37 China.....	0.28	0.18	37 Singapore.....	0.44	0.43
38 Bulgaria.....	0.07	0.17	38 Mexico	0.46	0.42
39 India	0.11	0.14	39 Brazil.....	0.38	0.41
40 Russia	na	0.12	40 Greece	0.40	0.40

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Relative prominence of cited S&E literature, by selected field and country/economy: 1994 and 2001

Field, rank, and country/economy	1994	2001	Field, rank, and country/economy	1994	2001
Chemistry			Physics		
1 Netherlands	1.07	1.19	1 Switzerland	1.29	1.27
2 Switzerland	1.17	1.16	2 Denmark	1.19	1.26
3 Denmark	0.97	1.09	3 United States	1.15	1.13
4 United States	1.13	1.06	4 New Zealand	0.89	1.08
5 Israel	0.90	1.04	5 Netherlands	1.06	1.04
6 Sweden	1.15	1.01	6 Austria	0.79	1.00
7 Canada	0.97	1.00	7 Germany	0.98	0.96
8 Hong Kong	0.68	0.99	8 Israel	0.82	0.88
9 United Kingdom	0.85	0.94	9 United Kingdom	0.80	0.87
10 Ireland	0.77	0.89	10 Ireland	0.91	0.87
11 Belgium	0.71	0.89	11 Sweden	0.80	0.85
12 Australia	0.80	0.82	12 France	0.81	0.83
13 Germany	0.74	0.79	13 Belgium	0.72	0.80
14 Austria	0.69	0.78	14 Finland	0.84	0.80
15 Italy	0.70	0.77	15 Canada	0.76	0.79
16 France	0.68	0.74	16 Italy	0.65	0.75
17 New Zealand	0.74	0.71	17 Norway	0.62	0.74
18 Finland	0.63	0.70	18 Spain	0.52	0.74
19 Spain	0.50	0.70	19 Australia	0.61	0.68
20 Singapore	0.56	0.67	20 Hong Kong	na	0.68
21 Greece	0.46	0.64	21 Slovenia	na	0.66
22 Japan	0.58	0.63	22 Hungary	0.49	0.66
23 Norway	0.66	0.63	23 Portugal	0.57	0.60
24 Portugal	0.50	0.58	24 Greece	0.51	0.58
25 Slovenia	na	0.50	25 Japan	0.55	0.56
26 Venezuela	na	0.48	26 Slovakia	na	0.55
27 Brazil	0.41	0.48	27 Czech Republic	na	0.51
28 Argentina	0.35	0.47	28 Argentina	0.43	0.49
29 Taiwan	0.49	0.47	29 South Africa	0.40	0.48
30 South Korea	0.44	0.45	30 Poland	0.39	0.48
31 South Africa	0.53	0.44	31 Bulgaria	0.28	0.45
32 Hungary	0.39	0.43	32 Iran	na	0.43
33 Czech Republic	na	0.42	33 Brazil	0.41	0.43
34 Bulgaria	0.31	0.42	34 South Korea	0.44	0.40
35 Mexico	0.38	0.40	35 Taiwan	0.32	0.39
36 Chile	0.24	0.36	36 Singapore	na	0.37
37 India	0.25	0.34	37 Lithuania	na	0.36
38 Poland	0.32	0.32	38 Mexico	0.35	0.35
39 Iran	na	0.31	39 Romania	0.27	0.35
40 Croatia	na	0.30	40 India	0.28	0.35

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Relative prominence of cited S&E literature, by selected field and country/economy: 1994 and 2001

Field, rank, and country/economy	1994	2001	Field, rank, and country/economy	1994	2001
Earth and space sciences			Engineering and technology ^a		
1 Chile	1.06	1.11	1 Switzerland	1.04	1.14
2 Netherlands	0.82	1.00	2 Denmark	1.23	1.10
3 United States	0.97	0.96	3 Netherlands	0.88	0.94
4 Germany	0.79	0.92	4 Slovenia	na	0.88
5 Switzerland	1.05	0.89	5 Austria	0.56	0.87
6 Israel	0.65	0.87	6 Germany	0.60	0.86
7 United Kingdom	0.80	0.85	7 United States	0.86	0.85
8 Denmark	0.74	0.83	8 Ireland	0.82	0.82
9 Italy	0.70	0.77	9 Sweden	0.81	0.80
10 France	0.78	0.72	10 France	0.73	0.76
11 Sweden	0.75	0.69	11 Belgium	0.80	0.75
12 Australia	0.72	0.69	12 United Kingdom	0.70	0.72
13 Canada	0.69	0.66	13 Israel	0.64	0.71
14 Belgium	0.66	0.64	14 Australia	0.73	0.70
15 Austria	0.44	0.62	15 Hong Kong	0.50	0.70
16 Norway	0.61	0.60	16 Norway	0.63	0.70
17 Finland	0.49	0.60	17 Spain	0.73	0.67
18 Ireland	0.60	0.60	18 Italy	0.57	0.66
19 Hong Kong	na	0.58	19 Czech Republic	na	0.66
20 Mexico	0.51	0.58	20 Belarus	na	0.65
21 Japan	0.53	0.56	21 Portugal	0.38	0.65
22 Poland	0.39	0.55	22 New Zealand	0.63	0.65
23 Spain	0.49	0.55	23 Canada	0.58	0.62
24 Brazil	0.42	0.51	24 Finland	0.78	0.62
25 Hungary	0.34	0.51	25 Argentina	0.47	0.60
26 Argentina	0.37	0.49	26 Hungary	0.54	0.60
27 Portugal	0.28	0.47	27 Japan	0.52	0.54
28 South Africa	0.49	0.47	28 South Korea	0.53	0.53
29 Czech Republic	na	0.45	29 Kuwait	0.25	0.52
30 New Zealand	0.42	0.42	30 Brazil	0.53	0.52
31 Greece	0.23	0.40	31 Greece	0.47	0.51
32 Ukraine	na	0.40	32 Poland	0.30	0.48
33 South Korea	0.22	0.37	33 South Africa	0.43	0.48
34 Slovakia	na	0.35	34 Malaysia	na	0.47
35 Bulgaria	0.24	0.33	35 Slovakia	na	0.47
36 Singapore	na	0.30	36 Bulgaria	0.34	0.45
37 Taiwan	0.43	0.28	37 Singapore	0.33	0.45
38 Turkey	0.27	0.28	38 Mexico	0.58	0.44
39 Russia	na	0.27	39 Jordan	na	0.43
40 India	0.18	0.27	40 India	0.32	0.43

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Relative prominence of cited S&E literature, by selected field and country/economy: 1994 and 2001

Field, rank, and country/economy	1994	2001	Field, rank, and country/economy	1994	2001
Mathematics			Social sciences		
1 Denmark	1.58	1.19	1 United States	0.85	0.80
2 Switzerland	0.78	1.18	2 Singapore	0.36	0.80
3 Hong Kong	0.68	1.07	3 Sweden	0.63	0.77
4 Singapore	0.48	0.95	4 Belgium	0.49	0.77
5 Ireland	0.21	0.94	5 Denmark	1.35	0.74
6 United Kingdom	0.94	0.87	6 Hong Kong	0.33	0.72
7 United States	0.86	0.86	7 South Korea	0.37	0.70
8 Chile	0.47	0.84	8 Switzerland	0.42	0.67
9 Sweden	1.10	0.81	9 United Kingdom	0.55	0.66
10 Norway	0.88	0.80	10 New Zealand	0.47	0.66
11 Germany	0.59	0.79	11 Norway	0.67	0.65
12 Belgium	0.66	0.76	12 Netherlands	0.50	0.65
13 Netherlands	0.76	0.75	13 Canada	0.61	0.62
14 Austria	0.53	0.74	14 Spain	0.51	0.60
15 Canada	0.55	0.74	15 Italy	0.44	0.56
16 Israel	0.65	0.71	16 Israel	0.59	0.56
17 Czech Republic	na	0.65	17 Mexico	0.42	0.54
18 Finland	0.69	0.61	18 Austria	0.39	0.51
19 Australia	0.70	0.60	19 Ireland	0.32	0.51
20 Saudi Arabia	0.63	0.59	20 Portugal	na	0.48
21 Italy	0.51	0.59	21 France	0.33	0.47
22 Argentina	0.73	0.58	22 Australia	0.42	0.43
23 France	0.70	0.57	23 Finland	0.48	0.43
24 New Zealand	0.83	0.56	24 Brazil	0.37	0.43
25 Bulgaria	0.51	0.55	25 China	0.46	0.43
26 Greece	0.37	0.53	26 Hungary	0.46	0.40
27 Vietnam	0.53	0.52	27 Chile	na	0.39
28 Belarus	na	0.48	28 South Africa	0.27	0.39
29 Mexico	0.44	0.47	29 Germany	0.24	0.39
30 Spain	0.52	0.46	30 Greece	0.38	0.36
31 Portugal	0.47	0.45	31 Japan	0.34	0.34
32 Japan	0.46	0.45	32 Poland	0.39	0.31
33 South Africa	0.54	0.45	33 Nigera	0.28	0.30
34 Slovenia	na	0.43	34 Turkey	0.31	0.29
35 Poland	0.36	0.43	35 Taiwan	0.16	0.29
36 India	0.34	0.42	36 Argentina	0.31	0.27
37 Hungary	0.46	0.41	37 India	0.15	0.22
38 Brazil	0.68	0.40	38 Croatia	na	0.13
39 South Korea	0.36	0.40	39 Russia	na	0.11
40 Slovakia	na	0.39	40 Czech Republic	na	0.08

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Relative prominence of cited S&E literature, by selected field and country/economy: 1994 and 2001

Field, rank, and country/economy	1994	2001
Psychology		
1 Canada.....	0.76	0.83
2 Argentina.....	0.60	0.80
3 New Zealand.....	0.60	0.77
4 United Kingdom.....	0.73	0.77
5 United States.....	0.77	0.77
6 Netherlands.....	0.73	0.75
7 Sweden.....	0.81	0.68
8 Finland.....	0.71	0.68
9 Italy.....	0.62	0.67
10 Denmark.....	0.42	0.65
11 Belgium.....	0.63	0.65
12 Australia.....	0.56	0.63
13 Israel.....	0.47	0.61
14 Hong Kong.....	0.32	0.60
15 Switzerland.....	0.51	0.59
16 Norway.....	0.55	0.58
17 Brazil.....	0.40	0.55
18 France.....	0.49	0.55
19 Poland.....	0.40	0.51
20 Spain.....	0.43	0.49
21 China.....	0.22	0.48
22 Austria.....	0.44	0.48
23 Germany.....	0.33	0.47
24 Ireland.....	0.21	0.46
25 Mexico.....	0.18	0.34
26 South Korea.....	na	0.33
27 Taiwan.....	0.23	0.29
28 Japan.....	0.26	0.29
29 Greece.....	na	0.27
30 Turkey.....	na	0.26
31 India.....	0.14	0.25
32 Hungary.....	0.26	0.22
33 South Africa.....	0.30	0.20
34 Czech Republic.....	na	0.11
35 Russia.....	na	0.05
36 Slovakia.....	na	0.05

na not applicable

^aComputer sciences are included in engineering and technology.

NOTES: Relative prominence of S&E literature is measured on the basis of the relative citation index of the country. This index is the country's share of cited literature adjusted for its share of published literature. A country's citation of its own literature is excluded. An index of 1.00 would indicate that the country's share of cited literature is equal to the country's world share of S&E literature. An index greater (less) than 1.00 would indicate that the country is cited relatively more (less) than is indicated by the country's share of S&E literature. Countries with less than a 0.10 percent share of world publications in the cited field or that did not cite S&E literature over the period are excluded or are marked na. Countries ranked by descending order of relative citation index in 2001.

SOURCES: Institute for Scientific Information, Science Citation Index and Social Citation Index, CHI Research, Inc.; and National Science Foundation, Division of Science Resources Statistics, special tabulations.