

Appendix table 5-48

Citation of S&amp;E articles, by region and country/economy: 1992, 1996, and 2001

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Region and country/economy	1992		1996		2001	
	Number	Percent worldwide	Number	Percent worldwide	Number	Percent worldwide
Worldwide .....	2,684,777	100.00	3,325,455	100.00	3,846,519	100.00
North America .....	1,503,880	56.02	1,770,128	53.23	1,830,781	47.60
Canada.....	111,661	4.16	141,278	4.25	144,247	3.75
Mexico.....	2,906	0.11	4,243	0.13	8,241	0.21
United States.....	1,389,314	51.75	1,624,607	48.85	1,678,293	43.63
Western Europe .....	812,461	30.26	1,082,741	32.56	1,363,912	35.46
Austria .....	11,023	0.41	16,437	0.49	23,775	0.62
Belgium.....	20,776	0.77	28,118	0.85	34,731	0.90
Croatia .....	0	0.00	871	0.03	1,510	0.04
Cyprus.....	24	0.00	60	0.00	196	0.01
Denmark .....	20,271	0.76	26,288	0.79	32,558	0.85
Finland .....	14,704	0.55	21,493	0.65	30,461	0.79
France.....	116,453	4.34	153,159	4.61	187,325	4.87
Germany .....	157,285	5.86	207,673	6.24	274,520	7.14
Greece .....	3,359	0.13	5,132	0.15	8,971	0.23
Iceland .....	314	0.01	578	0.02	868	0.02
Ireland.....	3,440	0.13	4,639	0.14	8,148	0.21
Italy.....	54,805	2.04	83,353	2.51	115,461	3.00
Macedonia .....	0	0.00	22	0.00	135	0.00
Netherlands.....	57,498	2.14	76,260	2.29	91,238	2.37
Norway.....	10,221	0.38	13,079	0.39	16,212	0.42
Portugal.....	1,460	0.05	2,793	0.08	5,807	0.15
Slovenia .....	0	0.00	871	0.03	2,317	0.06
Spain.....	22,199	0.83	42,731	1.28	68,894	1.79
Sweden .....	48,980	1.82	57,349	1.72	66,394	1.73
Switzerland .....	43,605	1.62	58,346	1.75	69,675	1.81
Turkey .....	1,134	0.04	2,519	0.08	6,565	0.17
United Kingdom.....	221,955	8.27	278,930	8.39	316,752	8.23
Yugoslavia.....	2,865	0.11	1,822	0.05	771	0.02
All others.....	89	0.00	218	0.01	630	0.02
Asia.....	209,591	7.81	279,456	8.40	392,036	10.19
Bangladesh.....	208	0.01	331	0.01	317	0.01
China .....	9,910	0.37	16,539	0.50	33,245	0.86
India.....	14,421	0.54	19,250	0.58	24,442	0.64
Indonesia .....	164	0.01	293	0.01	485	0.01
Japan.....	174,471	6.50	219,688	6.61	280,360	7.29
Malaysia.....	386	0.01	499	0.02	986	0.03
Pakistan .....	362	0.01	421	0.01	456	0.01
Philippines .....	341	0.01	467	0.01	642	0.02
Singapore.....	1,179	0.04	2,787	0.08	5,650	0.15
South Korea.....	2,260	0.08	6,563	0.20	23,551	0.61
Sri Lanka.....	184	0.01	147	0.00	201	0.01
Taiwan .....	4,763	0.18	11,150	0.34	19,422	0.50
Thailand .....	787	0.03	1,042	0.03	1,716	0.04
Vietnam.....	57	0.00	164	0.00	307	0.01
All others.....	99	0.00	117	0.00	256	0.01
Eastern Europe/Central Asia.....	52,023	1.94	60,215	1.81	76,898	2.00
Armenia .....	0	0.00	118	0.00	243	0.01
Azerbaijan .....	0	0.00	59	0.00	51	0.00
Bulgaria.....	1,522	0.06	2,110	0.06	2,193	0.06
Belarus.....	0	0.00	500	0.02	1,060	0.03
Czechoslovakia .....	5,468	0.20	6,540	0.20	7,591	0.20
Estonia .....	0	0.00	376	0.01	1,204	0.03
Georgia .....	0	0.00	88	0.00	264	0.01
Hungary .....	4,755	0.18	5,988	0.18	8,345	0.22
Kazakhstan .....	0	0.00	77	0.00	120	0.00
Latvia .....	0	0.00	224	0.01	443	0.01
Lithuania .....	0	0.00	270	0.01	710	0.02
Moldova .....	0	0.00	105	0.00	141	0.00
Poland.....	8,671	0.32	10,692	0.32	14,909	0.39
Romania.....	571	0.02	1,109	0.03	1,751	0.05

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Region and country/economy	1992		1996		2001	
	Number	Percent worldwide	Number	Percent worldwide	Number	Percent worldwide
Russia.....	0	0.00	19,047	0.57	31,602	0.82
Slovakia.....	0	0.00	777	0.02	2,411	0.06
USSR.....	31,036	1.16	9,852	0.30	0	0.00
Ukraine.....	0	0.00	2,078	0.06	3,606	0.09
Uzbekistan.....	0	0.00	173	0.01	219	0.01
All others.....	0	0.00	32	0.00	35	0.00
Near East/North Africa.....	25,502	0.95	31,975	0.96	43,463	1.13
Algeria.....	127	0.00	194	0.01	282	0.01
Egypt.....	1,455	0.05	1,643	0.05	2,391	0.06
Iran.....	143	0.01	347	0.01	1,756	0.05
Israel.....	21,192	0.79	27,261	0.82	34,625	0.90
Jordan.....	218	0.01	165	0.00	382	0.01
Kuwait.....	460	0.02	154	0.00	571	0.01
Lebanon.....	62	0.00	79	0.00	273	0.01
Morocco.....	180	0.01	295	0.01	740	0.02
Oman.....	48	0.00	52	0.00	121	0.00
Saudi Arabia.....	1,078	0.04	1,104	0.03	1,291	0.03
Tunisia.....	170	0.01	199	0.01	438	0.01
United Arab Emirates.....	33	0.00	141	0.00	261	0.01
All others.....	336	0.01	341	0.01	332	0.01
Pacific.....	58,661	2.18	70,735	2.13	92,447	2.40
Australia.....	49,989	1.86	60,266	1.81	78,789	2.05
New Zealand.....	8,498	0.32	10,326	0.31	13,507	0.35
All others.....	174	0.01	143	0.00	151	0.00
Central/South America.....	12,657	0.47	19,714	0.59	34,879	0.91
Argentina.....	3,386	0.13	4,856	0.15	8,631	0.22
Brazil.....	5,132	0.19	8,630	0.26	17,365	0.45
Chile.....	1,826	0.07	2,560	0.08	3,559	0.09
Colombia.....	256	0.01	335	0.01	654	0.02
Costa Rica.....	174	0.01	197	0.01	362	0.01
Cuba.....	136	0.01	262	0.01	665	0.02
Peru.....	223	0.01	218	0.01	278	0.01
Uruguay.....	104	0.00	464	0.01	685	0.02
Venezuela.....	789	0.03	1,296	0.04	1,491	0.04
All others.....	630	0.02	896	0.03	1,189	0.03
Sub-Saharan Africa.....	10,001	0.37	10,491	0.32	12,104	0.31
Cameroon.....	87	0.00	159	0.00	238	0.01
Ethiopia.....	117	0.00	173	0.01	226	0.01
Ghana.....	50	0.00	110	0.00	164	0.00
Kenya.....	791	0.03	822	0.02	983	0.03
Nigeria.....	744	0.03	651	0.02	519	0.01
Senegal.....	358	0.01	372	0.01	279	0.01
South Africa.....	6,348	0.24	6,397	0.19	7,056	0.18
Tanzania.....	123	0.00	231	0.01	324	0.01
Uganda.....	68	0.00	121	0.00	287	0.01
Zimbabwe.....	274	0.01	239	0.01	301	0.01
All others.....	1,042	0.04	1,216	0.04	1,727	0.04

NOTES: Citation counts are based on a 3-year window with a 2-year lag. For example, citations for 1999 are references made in articles published in 1999 to articles published in 1995–97.

Country/economy is determined by the cited article's institutional address. Percents may not sum to 100 because of rounding. German data for 1992 includes former East Germany. China data includes Hong Kong. Czech Republic data for 1992 and 1996 includes the former Czechoslovakia.

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