

Appendix table 5-54

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**Coauthorship share of selected regions and countries on international S&E articles of indicated region and country/economy: 1996**

(Percent)

Region and country/economy	S&E articles (number)		Central/South America	Near East/North Africa		Sub-Saharan Africa	Other		
	Total	International		Total	Israel		Total	Australia	Canada
<b>Major S&amp;E article producers</b>									
United States.....	221,414	39,046	4.9	4.5	3.4	1.4	14.4	3.2	10.4
EU-15.....	215,494	58,576	5.0	4.1	1.9	2.6	10.4	3.6	6.0
Austria.....	4,902	2,194	1.2	1.4	0.6	0.8	4.1	1.0	2.7
Belgium.....	7,641	3,514	1.9	1.7	0.7	2.0	3.4	0.7	2.6
Denmark.....	6,036	2,632	1.3	1.0	0.7	1.9	5.4	1.9	3.1
Finland.....	5,456	1,950	1.2	1.1	0.7	0.4	4.0	1.2	2.6
France.....	36,933	13,105	3.8	4.5	1.1	1.6	6.4	1.3	4.8
Germany.....	48,333	16,464	1.8	2.3	1.7	0.9	4.8	1.8	2.7
Greece.....	2,910	1,106	0.6	0.7	0.6	0.5	3.4	0.3	3.1
Ireland.....	1,666	695	1.0	0.4	0.2	0.9	5.9	2.0	3.1
Italy.....	23,581	8,011	2.5	1.7	1.1	0.6	3.6	1.1	2.4
Netherlands.....	15,638	5,604	1.2	1.6	1.1	1.2	4.7	1.6	3.0
Portugal.....	1,549	807	3.7	0.4	0.2	0.4	2.7	0.5	2.1
Spain.....	14,901	4,771	8.0	1.6	1.1	0.3	3.4	0.5	2.8
Sweden.....	12,461	4,875	2.3	0.7	0.6	1.8	5.4	2.2	2.6
United Kingdom.....	56,923	16,292	2.7	2.0	0.8	2.5	9.1	4.1	4.0
Japan.....	54,614	7,973	1.2	1.2	0.6	0.5	7.6	2.8	4.3
<b>East Asia-4</b>									
China.....	11,923	3,341	0.9	0.6	0.4	0.4	10.4	3.6	6.3
Singapore.....	1,430	449	0.4	0.8	0.8	0.8	16.9	11.1	4.4
South Korea.....	5,566	1,490	0.4	0.6	0.4	0.3	4.3	1.6	2.5
Taiwan.....	6,302	1,103	0.6	0.7	0.5	0.2	4.1	1.5	2.5
<b>Other regions/countries</b>									
<b>Other Asia</b>									
Bangladesh.....	223	117	0.7	1.5	0.0	1.1	4.6	0.7	3.2
India.....	10,688	1,719	1.7	1.8	0.6	1.0	7.9	2.4	5.1
Indonesia.....	269	220	1.7	1.0	0.0	0.9	11.8	8.0	2.3
Malaysia.....	486	207	0.7	1.7	0.0	2.6	9.0	5.6	2.6
Pakistan.....	368	166	0.4	5.3	0.3	0.5	5.4	1.8	3.5
Philippines.....	251	163	2.5	1.2	0.9	1.4	15.2	12.3	2.8
Sri Lanka.....	109	58	0.0	0.0	0.0	1.6	8.5	5.3	1.6
Thailand.....	599	376	0.9	1.2	1.0	1.8	9.0	6.4	2.2
Vietnam.....	182	124	0.5	0.5	0.0	0.4	6.4	5.2	1.2
<b>Other Western Europe</b>									
Croatia.....	771	278	0.3	1.5	1.2	0.1	6.3	3.8	2.5
Cyprus.....	93	57	0.3	2.4	0.0	0.3	5.1	0.0	5.1
Iceland.....	221	115	0.3	0.3	0.1	0.1	4.3	0.4	3.9
Macedonia.....	52	27	0.0	1.7	0.0	0.0	2.2	2.2	0.0
Norway.....	3,850	1,553	0.6	0.9	0.4	1.4	3.9	0.8	2.9
Slovenia.....	666	309	1.5	1.3	1.3	0.6	3.1	1.0	2.0
Switzerland.....	10,540	5,028	1.2	1.5	1.2	1.1	4.1	1.2	2.7
Turkey.....	2,513	569	0.7	3.3	1.5	0.6	3.5	0.7	2.6
Yugoslavia.....	678	202	1.0	2.6	1.2	1.3	4.8	1.2	3.1
<b>Eastern Europe/former USSR</b>									
Armenia.....	245	107	2.0	1.8	1.8	0.2	2.2	0.1	2.0
Azerbaijan.....	156	55	3.2	1.6	0.0	1.6	0.8	0.0	0.8
Bulgaria.....	1,253	503	1.3	1.2	0.5	0.3	2.9	0.9	1.8
Belarus.....	759	283	0.8	1.1	1.0	0.0	1.4	0.2	1.2
Czech Republic.....	3,094	1,481	2.3	1.6	1.1	0.2	4.4	1.0	3.3
Estonia.....	373	216	1.2	0.4	0.4	0.0	2.7	0.7	2.0
Georgia.....	176	83	1.0	1.0	1.0	0.4	0.0	0.0	0.0
Hungary.....	2,618	1,343	0.9	2.1	1.3	0.4	4.6	1.1	3.5
Kazakhstan.....	169	43	0.0	5.5	5.5	0.0	0.2	0.2	0.0
Latvia.....	228	105	0.6	0.0	0.0	0.0	3.7	0.4	3.3
Lithuania.....	272	128	1.4	1.0	0.7	0.0	3.2	3.2	0.0
Moldova.....	184	84	0.0	0.0	0.0	0.0	2.1	0.0	2.1
Poland.....	6,239	2,865	1.5	1.2	0.7	0.8	3.7	0.5	3.1
Romania.....	1,169	508	2.4	1.4	0.4	0.0	4.2	0.3	3.7
Russia.....	21,776	5,827	1.6	1.5	1.3	0.3	3.3	1.0	2.3

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(Percent)

Region and country/economy	S&E articles (number)		Central/South	Near East/North Africa		Sub-Saharan	Other		
	Total	International	America	Total	Israel	Africa	Total	Australia	Canada
Slovakia .....	1,558	650	2.0	0.4	0.4	0.5	2.0	0.3	1.6
Ukraine .....	3,195	1,060	3.0	1.0	0.7	0.6	1.1	0.3	0.8
Uzbekistan .....	384	65	0.9	1.6	0.9	0.9	2.8	0.1	2.7
Central/South America .....	13,360	5,484	na	0.9	0.6	0.7	6.0	1.2	4.6
Argentina .....	2,720	916	15.5	0.9	0.6	0.6	4.8	1.6	2.9
Brazil .....	5,005	2,090	8.0	0.8	0.4	0.4	5.2	0.9	4.1
Chile .....	1,291	612	16.1	0.8	0.7	1.0	4.0	1.2	2.8
Colombia .....	327	212	17.8	0.5	0.4	1.2	3.8	1.4	2.1
Costa Rica .....	145	121	9.5	0.5	0.0	1.0	5.8	0.3	5.5
Cuba .....	280	157	29.3	0.1	0.0	2.1	4.6	0.1	4.3
Mexico .....	2,759	1,119	10.2	1.0	0.8	0.3	5.6	0.9	4.6
Peru .....	128	97	11.1	0.0	0.0	0.9	3.7	0.3	3.4
Uruguay .....	183	111	28.4	1.7	1.5	0.2	2.8	0.8	1.8
Venezuela .....	574	247	19.6	0.6	0.2	0.1	5.9	1.0	4.3
Near East/North Africa .....	12,329	4,782	1.1	na	na	1.0	5.9	1.8	3.9
Algeria .....	259	181	1.5	3.3	0.0	0.1	2.1	0.3	1.8
Egypt .....	1,650	535	1.2	13.6	0.5	1.4	4.5	0.3	4.2
Iran .....	393	142	0.1	1.7	0.4	0.7	23.0	13.7	9.0
Israel .....	7,429	2,853	1.2	0.3	na	1.0	6.0	1.9	3.9
Jordan .....	209	76	0.2	31.5	1.4	2.2	2.6	1.4	1.2
Kuwait .....	304	114	1.2	15.3	0.0	1.6	4.5	1.6	3.0
Lebanon .....	93	42	0.0	6.4	0.0	0.0	8.4	0.0	7.0
Morocco .....	472	377	0.7	1.9	0.2	0.4	2.6	0.0	2.6
Oman .....	87	40	2.3	12.6	0.0	3.5	7.0	2.1	4.9
Saudi Arabia .....	872	216	0.0	18.7	0.5	1.6	5.6	0.4	5.1
Tunisia .....	228	125	1.2	3.2	0.0	0.2	1.0	0.2	0.8
United Arab Emirates .....	196	89	0.2	34.1	0.0	0.5	2.5	2.5	0.0
Sub-Saharan Africa .....	5,252	2,332	1.5	2.1	1.3	na	6.7	2.5	3.8
Cameroon .....	102	73	1.5	1.7	0.0	11.4	4.7	1.2	3.5
Ethiopia .....	131	77	0.0	0.0	0.0	12.9	5.4	0.0	5.4
Ghana .....	114	67	0.0	1.8	1.8	14.2	4.0	2.7	1.3
Kenya .....	448	301	1.8	2.5	1.5	8.2	7.8	0.9	6.7
Nigeria .....	529	177	3.6	1.9	0.0	8.7	5.0	0.6	3.3
Senegal Republic .....	111	82	0.4	0.0	0.0	11.6	2.3	0.0	2.3
South Africa .....	2,733	808	1.7	3.2	2.8	3.7	9.8	5.5	3.5
Tanzania .....	190	148	0.4	0.0	0.0	6.7	3.0	0.4	2.6
Uganda .....	72	48	0.6	1.2	0.0	14.5	1.7	1.7	0.0
Zimbabwe .....	190	122	2.6	0.4	0.0	12.8	3.1	1.2	1.9
Other									
Australia .....	16,354	4,394	1.5	2.0	1.3	1.3	9.8	na	5.3
Canada .....	29,556	9,065	2.6	1.9	1.1	0.9	3.3	2.6	na
New Zealand .....	3,289	1,082	0.8	0.6	0.4	0.7	23.5	17.0	6.2

na = not applicable

EU = European Union; USSR = Union of Soviet Socialist Republics

NOTES: Data are region/country/economy's share of internationally coauthored articles with indicated region/country/economy. Authorship based on institutional address. International articles are those with at least one author at institutional address in given country/economy and one author at foreign address. Share based on article counts calculated on whole-count basis, i.e., each collaborating institution is credited one count. EU-15 consists of 15 EU countries before expansion of member countries on May 1, 2004 (listed countries plus Luxembourg). China data include Hong Kong. Eastern Europe consists of Bulgaria, Czech Republic, Hungary, Poland, and Romania.

SOURCES: Thomson ISI, *Science Citation Index* and *Social Sciences Citation Index*, <http://www.isinet.com/products/citation/>; iPIQ, Inc.; and National Science Foundation, Division of Science Resources Statistics, special tabulations.