

Appendix table 5-53

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**Coauthorship share of selected regions and countries on international S&E articles of indicated region and country/economy: 1988**

(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.....	187,225	19,294	4.1	6.6	5.3	1.8	17.2	3.7	12.6
EU-15.....	144,157	25,179	3.8	4.8	2.1	3.2	11.2	3.4	7.1
Austria.....	2,678	782	0.4	1.2	1.0	0.7	3.1	1.2	1.6
Belgium.....	4,386	1,425	1.5	1.6	0.9	3.4	4.3	0.9	3.4
Denmark.....	4,044	1,090	0.4	1.6	1.4	1.2	5.6	1.7	3.7
Finland.....	3,185	724	1.0	0.2	0.0	1.3	6.4	1.9	3.8
France.....	24,393	5,681	3.2	5.5	1.5	2.3	7.3	0.7	6.4
Germany.....	29,164	6,435	2.1	2.8	1.9	1.1	4.7	1.7	2.7
Greece.....	1,487	448	0.9	0.3	0.1	0.2	5.6	0.2	5.0
Ireland.....	941	286	1.4	1.7	0.0	1.7	7.9	1.3	6.6
Italy.....	12,821	3,096	2.2	1.1	0.5	1.0	3.1	0.8	2.4
Netherlands.....	9,797	2,192	0.9	1.2	0.9	1.0	4.7	1.1	3.3
Portugal.....	542	203	3.1	1.0	1.0	0.4	2.5	0.0	2.5
Spain.....	6,109	1,255	6.0	0.6	0.3	0.1	2.7	0.3	2.4
Sweden.....	8,767	2,211	1.1	1.5	1.1	1.2	4.9	1.1	3.7
United Kingdom.....	40,335	7,125	2.1	3.3	1.3	3.2	11.2	4.8	5.2
Japan.....	36,041	3,097	0.8	0.9	0.6	0.7	8.0	1.9	5.6
East Asia-4.....	8,194	1,824	0.1	0.5	0.2	0.3	10.8	4.4	6.0
China.....	5,256	1,181	0.1	0.6	0.2	0.2	11.7	4.7	6.6
Singapore.....	468	111	0.0	0.9	0.9	2.6	28.7	21.1	6.4
South Korea.....	909	249	0.0	0.2	0.2	0.0	4.8	0.6	4.2
Taiwan.....	1,581	303	0.3	0.2	0.2	0.3	5.2	0.5	4.7
<b>Other regions/countries</b>									
<b>Other Asia</b>									
Bangladesh.....	129	63	0.0	1.5	0.0	0.0	8.8	6.3	2.4
India.....	9,403	976	1.4	1.8	0.4	1.0	10.9	2.3	8.0
Indonesia.....	106	81	0.4	0.7	0.0	1.3	17.4	14.7	2.1
Malaysia.....	254	83	0.0	0.5	0.5	1.3	16.4	13.1	3.3
Pakistan.....	277	78	1.2	1.6	0.5	0.0	5.1	1.2	1.2
Philippines.....	171	83	1.4	0.0	0.0	0.9	10.2	3.8	4.2
Sri Lanka.....	144	66	0.3	0.0	0.0	0.3	11.8	9.1	1.4
Thailand.....	397	205	0.0	0.3	0.0	0.8	12.0	8.4	3.0
Vietnam.....	71	37	2.6	0.0	0.0	0.0	0.0	0.0	0.0
Other Western Europe.....	11,453	3,782	0.9	1.2	1.0	1.1	27.8	1.1	26.4
Cyprus.....	18	5	0.0	0.0	0.0	0.0	18.2	0.0	18.2
Iceland.....	94	44	2.0	0.0	0.0	1.3	26.3	0.0	26.3
Norway.....	2,564	684	0.5	1.3	1.1	1.2	27.7	1.2	25.9
Switzerland.....	6,764	2,485	1.1	1.2	1.0	1.2	26.0	1.2	24.6
Turkey.....	576	129	0.7	1.7	0.0	0.7	32.5	0.7	31.8
Yugoslavia.....	1,482	491	0.6	1.2	0.7	0.2	4.6	0.7	3.8
Eastern Europe/former USSR.....	43,219	3,485	1.2	1.4	0.5	0.3	4.5	0.5	4.0
Bulgaria.....	1,233	270	0.1	0.3	0.0	0.0	1.9	0.1	1.8
Hungary.....	2,110	718	0.5	2.0	0.9	0.3	4.0	1.0	2.9
Poland.....	4,696	1,211	1.0	1.2	0.3	0.2	5.7	0.3	5.4
Romania.....	440	88	0.0	2.1	1.1	0.7	0.0	0.0	0.0
Former USSR.....	32,240	615	1.1	0.6	0.1	0.3	1.4	0.3	1.1
Central/South America.....	6,612	1,896	na	1.0	0.7	0.7	5.7	0.6	5.0
Argentina.....	1,566	266	15.1	1.0	0.9	0.6	3.2	1.4	1.8
Brazil.....	2,100	621	7.7	0.3	0.3	0.2	6.5	0.4	5.9
Chile.....	820	247	12.3	2.4	1.3	1.0	4.1	0.8	3.2
Colombia.....	118	59	4.7	0.0	0.0	1.0	7.2	1.5	5.7
Costa Rica.....	80	47	14.6	0.0	0.0	0.0	1.0	0.0	1.0
Cuba.....	98	55	7.3	0.8	0.8	1.1	0.0	0.0	0.0
Mexico.....	1,058	321	5.2	1.1	1.1	0.2	5.9	0.1	5.7
Peru.....	108	70	6.0	0.0	0.0	1.4	2.4	0.0	2.4
Uruguay.....	50	16	17.5	0.0	0.0	13.4	0.0	0.0	0.0
Venezuela.....	360	124	11.4	2.0	1.0	0.0	3.4	0.0	3.4

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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
Near East/North Africa .....	9,326	2,691	0.7	na	na	1.4	5.8	0.7	5.1
Algeria.....	109	78	0.0	0.8	0.0	0.0	6.2	2.3	3.9
Egypt.....	1,292	306	0.2	13.1	1.7	1.8	4.7	0.0	4.5
Iran .....	112	47	0.0	1.3	1.3	0.0	15.5	1.9	13.6
Israel.....	5,845	1,706	0.7	0.3	na	1.3	6.0	0.6	5.4
Jordan.....	191	55	0.0	14.3	0.0	3.3	2.7	2.7	0.0
Kuwait.....	342	74	1.3	10.0	0.0	1.3	11.1	3.9	7.2
Lebanon.....	64	17	0.0	15.1	0.0	0.0	0.0	0.0	0.0
Morocco.....	178	119	0.4	0.0	0.0	0.0	3.6	0.0	3.6
Oman.....	22	14	0.0	5.8	0.0	9.7	0.0	0.0	0.0
Saudi Arabia.....	638	131	2.2	19.7	1.1	3.7	5.2	0.9	4.3
Tunisia .....	139	79	0.0	0.0	0.0	0.0	1.2	0.0	1.2
United Arab Emirates.....	29	11	0.0	34.1	0.0	8.5	4.9	0.0	4.9
Sub-Saharan Africa.....	5,195	1,247	0.9	2.9	1.7	na	8.0	3.1	4.4
Cameroon .....	52	31	4.8	0.0	0.0	5.7	0.0	0.0	0.0
Ethiopia.....	91	37	0.0	0.0	0.0	16.2	6.8	0.0	3.4
Ghana .....	48	18	0.0	0.0	0.0	5.5	4.7	4.7	0.0
Kenya.....	371	146	0.0	0.3	0.3	9.1	9.0	1.9	7.1
Nigeria .....	966	153	0.6	1.3	0.0	3.8	7.9	1.0	6.9
Senegal Republic.....	0	0	na	na	na	na	na	na	na
South Africa.....	2,724	385	1.8	6.8	5.4	1.9	12.0	6.1	5.1
Tanzania.....	86	39	0.0	2.3	0.0	8.7	17.8	2.3	15.5
Uganda.....	25	7	4.0	0.0	0.0	7.0	0.0	0.0	0.0
Zimbabwe.....	144	52	0.0	0.0	0.0	17.6	15.2	12.5	2.7
Other									
Australia.....	10,951	1,985	0.6	1.0	0.5	2.0	12.8	na	6.4
Canada.....	24,008	4,906	2.1	2.7	1.8	1.1	5.4	2.4	na
New Zealand.....	2,349	493	0.2	0.2	0.0	1.0	30.5	23.6	5.9

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). Eastern Europe consists of Bulgaria, Czech Republic, Hungary, Poland, and Romania. China data include Hong Kong. Germany data include former West Germany only.

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