

Appendix table 5-55

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Coauthorship share of selected regions and countries on international S&E articles of indicated region and country/economy: 2003

(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
Major S&E article producers									
United States.....	242,397	60,180	5.4	3.5	2.5	1.4	13.0	3.4	8.8
EU-15.....	255,262	90,779	6.2	4.3	1.8	2.8	10.1	4.0	5.4
Austria.....	7,066	3,622	1.6	1.6	0.7	1.0	4.0	1.7	2.2
Belgium.....	9,941	5,547	2.6	2.0	0.8	2.2	4.0	1.4	2.5
Denmark.....	7,624	3,873	1.4	1.3	0.8	1.8	5.4	2.2	2.8
Finland.....	7,062	3,256	1.4	1.2	0.8	0.4	4.6	1.4	2.9
France.....	43,242	19,900	4.4	4.9	1.1	1.8	5.3	1.4	3.7
Germany.....	59,597	26,689	2.6	2.4	1.5	1.0	4.5	1.8	2.4
Greece.....	4,946	2,019	0.6	1.2	0.8	0.4	4.0	0.9	3.0
Ireland.....	2,520	1,265	1.0	1.0	0.2	0.4	6.5	2.6	3.5
Italy.....	31,567	12,669	3.1	1.6	0.9	0.7	4.0	1.6	2.3
Netherlands.....	18,746	8,905	1.5	1.2	0.8	2.0	5.0	2.0	2.7
Portugal.....	3,758	2,010	5.4	1.1	0.6	1.2	2.2	0.8	1.4
Spain.....	21,756	8,624	10.7	1.6	0.8	0.5	3.4	1.1	2.1
Sweden.....	14,374	7,086	1.6	1.0	0.6	1.6	5.6	2.5	2.8
United Kingdom.....	62,729	24,999	2.7	1.9	0.8	2.3	9.0	4.1	3.8
Japan.....	67,728	14,534	1.4	1.3	0.6	0.5	6.3	2.6	3.4
East Asia-4.....	63,400	16,110	0.9	1.0	0.6	0.3	9.8	4.6	4.7
China.....	34,110	9,132	0.9	0.9	0.7	0.2	10.5	5.2	4.9
Singapore.....	3,934	1,499	0.6	1.1	0.5	0.2	15.4	9.1	5.1
South Korea.....	16,114	4,507	0.7	0.7	0.3	0.4	4.5	1.6	2.6
Taiwan.....	10,448	2,178	0.6	1.1	0.6	0.1	4.8	1.3	3.2
Other regions/countries									
Other Asia									
Bangladesh.....	333	218	0.9	3.0	0.5	1.6	2.3	1.9	3.4
India.....	14,529	3,187	2.2	1.9	0.6	1.0	3.4	2.3	0.8
Indonesia.....	379	323	1.5	0.0	0.0	0.8	14.2	10.1	3.4
Malaysia.....	731	357	0.8	2.3	0.1	1.7	9.9	6.8	2.0
Pakistan.....	520	258	1.4	3.7	0.0	1.5	4.9	3.1	1.8
Philippines.....	338	249	1.9	2.2	0.6	2.2	10.7	4.3	3.7
Sri Lanka.....	213	129	0.4	1.0	0.0	1.0	7.6	6.1	1.5
Thailand.....	1,627	983	1.3	0.9	0.5	0.8	11.1	6.9	3.6
Vietnam.....	422	343	0.7	0.2	0.0	0.3	7.7	5.8	1.7
Other Western Europe									
Croatia.....	1,131	470	0.7	1.9	1.4	0.3	2.7	1.1	1.4
Cyprus.....	167	111	0.5	6.0	4.7	1.4	5.5	1.4	4.1
Iceland.....	349	227	0.5	0.4	0.4	0.5	3.7	1.0	2.6
Macedonia.....	80	41	0.0	0.0	0.0	1.0	0.4	0.0	0.4
Norway.....	4,780	2,403	0.9	1.3	0.8	2.1	5.0	1.6	2.9
Slovenia.....	1,367	664	1.9	1.9	1.5	0.2	2.6	0.7	1.7
Switzerland.....	13,343	7,711	1.6	1.5	1.0	1.5	4.6	1.6	2.7
Turkey.....	7,062	1,517	0.6	4.1	1.9	0.2	3.8	1.0	2.5
Yugoslavia.....	779	328	3.5	1.8	1.2	1.2	3.1	0.7	2.2
Eastern Europe/former USSR									
Armenia.....	312	200	3.1	2.0	0.7	0.0	1.1	0.0	1.1
Azerbaijan.....	158	84	0.0	3.1	1.0	0.0	0.3	0.0	0.3
Bulgaria.....	1,299	799	2.0	1.2	0.9	0.0	1.4	0.4	0.9
Belarus.....	762	391	2.2	0.3	0.1	0.4	0.8	0.2	0.7
Czech Republic.....	4,204	2,144	1.3	2.2	1.5	0.3	3.4	0.8	2.4
Estonia.....	550	297	0.4	0.6	0.0	0.2	2.3	1.0	1.4
Georgia.....	202	134	1.5	1.7	1.7	0.0	0.8	0.6	0.2
Hungary.....	3,769	2,140	1.2	2.0	1.3	0.3	3.4	0.7	2.6
Kazakhstan.....	202	113	2.0	2.8	1.8	0.0	1.5	0.0	1.5
Latvia.....	258	168	1.2	1.4	1.0	0.4	2.0	1.1	0.9
Lithuania.....	483	265	1.0	0.8	0.8	0.2	1.5	0.5	0.9
Moldova.....	158	129	0.5	2.0	2.0	0.0	0.9	0.3	0.6
Poland.....	9,328	4,318	1.5	1.1	0.8	0.4	3.6	0.8	2.6
Romania.....	1,612	1,037	1.1	1.4	0.5	0.2	2.8	0.8	1.9
Russia.....	20,630	8,363	1.8	1.3	1.1	0.1	2.6	0.8	1.8

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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	1,456	869	1.3	1.6	0.6	0.3	2.9	0.8	1.8
Ukraine	3,064	1,672	3.1	2.1	1.9	0.1	1.5	0.6	0.9
Uzbekistan	279	143	4.0	3.1	2.9	0.8	3.7	0.0	3.7
Central/South America	24,205	10,094	na	1.1	0.8	0.7	5.3	1.2	3.9
Argentina	4,031	1,716	17.9	1.0	0.7	0.5	4.1	1.3	2.5
Brazil	10,779	3,794	10.1	0.8	0.5	0.6	5.4	1.1	4.1
Chile	2,236	1,231	14.7	1.0	0.9	0.5	3.8	1.2	2.3
Colombia	578	391	17.6	1.9	1.5	1.4	2.7	0.6	2.1
Costa Rica	183	158	21.2	1.5	1.5	1.7	2.8	0.3	2.3
Cuba	436	302	36.2	0.3	0.0	0.0	2.9	0.3	2.5
Mexico	5,002	2,215	9.5	1.3	0.9	0.6	4.7	0.9	3.7
Peru	270	232	20.6	0.1	0.0	1.0	3.2	0.3	2.9
Uruguay	318	214	33.3	0.7	0.7	1.8	1.6	0.9	0.6
Venezuela	822	438	18.6	0.5	0.3	0.2	3.9	0.9	2.7
Near East/North Africa	17,434	7,192	1.5	na	na	1.0	6.3	1.6	4.6
Algeria	442	275	0.6	5.7	0.0	1.1	0.9	0.0	0.6
Egypt	2,155	763	0.8	11.8	0.5	0.8	4.1	0.4	3.6
Iran	2,098	550	0.4	1.3	0.0	0.0	22.8	7.8	14.5
Israel	9,122	3,809	1.9	0.2	na	0.8	4.8	1.3	3.4
Jordan	349	154	1.4	17.8	2.7	0.2	6.4	1.0	5.4
Kuwait	325	136	1.1	15.5	0.3	1.3	8.8	0.6	7.6
Lebanon	296	136	1.0	10.6	0.0	0.1	8.3	2.2	6.0
Morocco	692	475	1.5	2.6	0.2	0.6	3.8	0.3	3.4
Oman	171	100	1.1	12.4	0.9	2.7	11.3	4.7	4.4
Saudi Arabia	767	333	1.4	20.9	0.1	4.6	7.8	1.0	6.2
Tunisia	650	372	0.5	3.5	0.1	0.9	1.7	0.3	1.4
United Arab Emirates	294	167	0.7	20.2	0.5	0.7	8.4	2.1	6.0
Sub-Saharan Africa	6,293	3,765	2.1	1.8	0.8		6.9	3.6	3.0
Cameroon	222	169	1.8	0.3	0.0	16.1	2.5	1.8	0.6
Ethiopia	188	150	0.3	1.1	0.4	10.6	3.5	0.9	2.4
Ghana	155	120	0.0	2.7	1.4	14.0	4.4	0.3	4.1
Kenya	527	438	2.2	1.5	0.7	9.0	3.6	0.9	2.6
Nigeria	493	193	3.8	1.3	0.7	17.9	4.4	2.8	0.9
Senegal Republic	164	133	2.7	1.6	0.0	22.8	0.1	0.0	0.1
South Africa	3,218	1,504	2.6	2.4	1.3	5.0	10.8	6.7	3.4
Tanzania	207	189	1.7	0.5	0.2	13.0	3.9	1.7	2.2
Uganda	183	153	1.0	0.3	0.0	15.5	2.7	0.0	2.4
Zimbabwe	182	148	1.3	0.9	0.9	21.1	7.2	1.9	5.2
Other									
Australia	20,259	7,879	1.6	1.2	0.5	1.6	9.1	na	5.0
Canada	32,145	12,978	2.8	2.3	1.0	0.8	3.9	3.1	na
New Zealand	4,034	1,717	1.3	0.9	0.3	0.9	24.3	17.9	6.3

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/>; iPLQ, Inc.; and National Science Foundation, Division of Science Resources Statistics, special tabulations.