

Appendix table 5-52

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Coauthorship share of Eastern Europe and former USSR and selected countries of Western Europe and Asia on international S&E articles of indicated region and country/economy: 2003

(Percent)

Region and country/economy	S&E articles (number)		Other Asia		Other Western Europe	Eastern Europe/former USSR		
	Total	International	Total	India		Total	E. Europe	Former USSR
Major S&E article producers								
United States.....	242,397	60,180	2.5	1.4	4.5	6.1	2.8	2.4
EU-15.....	255,262	90,779	2.8	1.6	9.0	15.8	7.2	5.9
Austria.....	7,066	3,622	1.2	0.4	7.0	10.8	6.0	1.9
Belgium.....	9,941	5,547	1.0	0.4	3.8	8.3	4.8	2.5
Denmark.....	7,624	3,873	1.3	0.5	7.8	5.7	2.5	2.2
Finland.....	7,062	3,256	0.8	0.4	5.1	12.4	4.5	5.0
France.....	43,242	19,900	1.4	0.8	5.3	9.3	4.9	3.2
Germany.....	59,597	26,689	1.8	1.3	6.4	13.8	5.7	5.7
Greece.....	4,946	2,019	0.4	0.3	5.8	9.3	5.6	2.1
Ireland.....	2,520	1,265	1.2	0.7	3.2	5.4	2.0	2.3
Italy.....	31,567	12,669	1.1	0.8	5.4	7.5	3.6	2.7
Netherlands.....	18,746	8,905	1.5	0.6	4.5	5.9	2.7	2.5
Portugal.....	3,758	2,010	0.8	0.5	2.9	9.3	4.1	3.1
Spain.....	21,756	8,624	0.5	0.4	3.2	5.7	2.9	1.9
Sweden.....	14,374	7,086	1.4	0.5	6.6	9.5	3.4	3.8
United Kingdom.....	62,729	24,999	2.1	1.0	4.5	5.0	2.3	1.8
Japan.....	67,728	14,534	5.4	2.2	2.4	7.1	3.0	3.3
East Asia-4.....	63,400	16,110	2.7	1.6	1.1	3.4	0.9	1.7
China.....	34,110	9,132	1.8	0.8	1.1	2.2	0.8	1.1
Singapore.....	3,934	1,499	4.4	2.0	1.4	1.2	0.8	0.4
South Korea.....	16,114	4,507	2.7	1.7	1.1	5.1	1.0	2.8
Taiwan.....	10,448	2,178	4.2	3.2	1.1	4.2	1.6	2.0
Other regions/countries								
Other Asia								
Bangladesh.....	333	218	12.5	8.3	1.2	0.3	0.1	0.0
India.....	14,529	3,187	2.7	na	2.1	3.1	1.8	0.9
Indonesia.....	379	323	8.7	1.0	0.1	0.7	0.4	0.2
Malaysia.....	731	357	17.5	9.6	2.2	1.5	1.0	0.1
Pakistan.....	520	258	3.4	1.1	3.9	2.2	1.2	0.3
Philippines.....	338	249	12.7	6.2	1.8	0.3	0.0	0.2
Sri Lanka.....	213	129	6.3	2.8	2.9	0.8	0.6	0.0
Thailand.....	1,627	983	4.6	0.8	1.3	0.8	0.3	0.4
Vietnam.....	422	343	6.4	1.5	1.9	3.8	2.1	1.5
Other Western Europe								
Croatia.....	1,131	470	0.3	0.1	15.2	9.9	6.2	2.0
Cyprus.....	167	111	3.0	1.3	9.3	4.3	2.8	1.0
Iceland.....	349	227	0.2	0.0	9.8	2.1	1.1	0.0
Macedonia.....	80	41	4.5	0.7	19.5	13.3	10.5	0.9
Norway.....	4,780	2,403	0.4	0.3	3.3	6.2	2.4	2.6
Slovenia.....	1,367	664	0.9	0.5	11.0	10.4	6.4	2.5
Switzerland.....	13,343	7,711	1.0	0.6	1.4	5.8	2.9	2.2
Turkey.....	7,062	1,517	1.0	0.3	2.8	8.7	2.5	1.5
Yugoslavia.....	779	328	1.7	1.1	6.6	10.9	6.8	2.2
Eastern Europe/former USSR								
Armenia.....	312	200	0.0	0.0	1.9	18.4	5.5	11.4
Azerbaijan.....	158	84	0.0	0.0	52.4	14.2	0.9	9.9
Bulgaria.....	1,299	799	0.9	0.6	4.5	13.9	7.3	5.0
Belarus.....	762	391	0.9	0.8	1.9	33.9	10.0	20.8
Czech Republic.....	4,204	2,144	0.9	0.6	4.2	16.5	5.1	4.2
Estonia.....	550	297	0.6	0.4	4.5	15.3	6.8	4.4
Georgia.....	202	134	0.0	0.0	3.2	23.0	6.9	13.0
Hungary.....	3,769	2,140	1.0	0.8	4.4	8.6	4.7	1.8
Kazakhstan.....	202	113	0.7	0.0	1.6	32.5	4.4	23.7
Latvia.....	258	168	0.1	0.0	3.1	23.8	6.2	10.3
Lithuania.....	483	265	0.3	0.1	4.3	12.8	5.0	3.4
Moldova.....	158	129	0.0	0.0	2.6	30.3	18.2	6.8
Poland.....	9,328	4,318	0.7	0.5	3.9	14.6	3.3	5.2
Romania.....	1,612	1,037	0.4	0.1	4.5	8.7	5.0	1.6

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(Percent)

Region and country/economy	S&E articles (number)		Other Asia		Other Western Europe	Eastern Europe/former USSR		
	Total	International	Total	India		Total	E. Europe	Former USSR
Russia.....	20,630	8,363	0.5	0.3	3.6	10.2	5.0	na
Slovakia.....	1,456	869	0.4	0.3	4.0	26.3	19.8	4.7
Ukraine.....	3,064	1,672	0.3	0.3	4.2	24.3	12.2	9.9
Uzbekistan.....	279	143	3.0	0.9	1.2	24.1	0.7	17.7
Central/South America.....	24,205	10,094	1.1	0.8	1.9	4.2	1.5	1.7
Argentina.....	4,031	1,716	0.5	0.3	1.8	2.2	1.5	0.3
Brazil.....	10,779	3,794	1.2	0.9	1.8	4.1	1.5	1.8
Chile.....	2,236	1,231	0.7	0.5	1.3	3.3	1.5	1.2
Colombia.....	578	391	1.8	1.2	3.2	1.5	0.3	0.7
Costa Rica.....	183	158	2.4	1.0	1.0	0.3	0.1	0.0
Cuba.....	436	302	1.2	0.4	1.7	1.0	0.3	0.4
Mexico.....	5,002	2,215	1.1	0.8	1.0	6.7	1.9	3.2
Peru.....	270	232	1.6	0.9	1.9	1.0	0.1	0.5
Uruguay.....	318	214	0.7	0.6	0.3	0.4	0.0	0.4
Venezuela.....	822	438	0.4	0.3	1.1	1.8	0.9	0.5
Near East/North Africa.....	17,434	7,192	1.6	0.9	3.4	5.1	2.5	1.5
Algeria.....	442	275	0.9	0.6	1.3	2.0	1.1	0.1
Egypt.....	2,155	763	1.0	0.6	2.5	3.7	2.5	0.8
Iran.....	2,098	550	4.1	2.3	2.2	2.2	0.7	0.8
Israel.....	9,122	3,809	0.7	0.5	4.0	6.7	2.9	2.4
Jordan.....	349	154	1.4	0.1	1.9	2.6	0.6	0.8
Kuwait.....	325	136	5.1	3.0	1.8	8.8	2.9	0.2
Lebanon.....	296	136	0.1	0.0	1.5	2.9	2.8	0.0
Morocco.....	692	475	0.8	0.6	1.5	2.2	1.4	0.5
Oman.....	171	100	7.8	4.3	7.6	1.5	1.5	0.0
Saudi Arabia.....	767	333	5.3	2.6	3.9	2.6	2.0	0.3
Tunisia.....	650	372	0.5	0.1	1.9	2.0	1.2	0.6
United Arab Emirates.....	294	167	2.4	1.3	2.5	2.7	2.3	0.0
Sub-Saharan Africa.....	6,293	3,765	1.7	0.8	4.7	1.5	1.0	0.3
Cameroon.....	222	169	0.8	0.1	2.9	0.6	0.6	0.0
Ethiopia.....	188	150	1.4	0.6	9.1	0.4	0.4	0.0
Ghana.....	155	120	1.2	0.5	2.9	0.9	0.0	0.4
Kenya.....	527	438	1.3	0.2	3.7	0.2	0.2	0.0
Nigeria.....	493	193	3.5	2.7	0.6	0.4	0.0	0.2
Senegal Republic.....	164	133	1.8	0.2	1.2	0.3	0.0	0.3
South Africa.....	3,218	1,504	1.4	1.1	2.8	3.1	2.2	0.5
Tanzania.....	207	189	1.1	0.7	8.8	0.1	0.0	0.0
Uganda.....	183	153	1.8	0.4	7.6	0.2	0.1	0.0
Zimbabwe.....	182	148	2.8	0.7	6.2	0.1	0.0	0.0
Other								
Australia.....	20,259	7,879	3.1	0.8	2.4	2.4	1.1	0.9
Canada.....	32,145	12,978	1.4	0.9	2.7	3.5	2.0	1.1
New Zealand.....	4,034	1,717	1.8	0.5	2.5	1.3	0.8	0.3

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.