

Appendix table 5-50

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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: 1988

(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.....	187,225	19,294	2.7	1.7	5.0	3.0	2.3	0.8
EU-15.....	144,157	25,179	3.2	1.9	10.1	9.5	5.5	3.9
Austria.....	2,678	782	2.0	1.0	6.7	8.1	5.8	2.3
Belgium.....	4,386	1,425	1.1	0.7	3.9	3.4	1.9	1.5
Denmark.....	4,044	1,090	1.1	0.4	7.1	4.0	1.9	2.2
Finland.....	3,185	724	0.7	0.5	5.1	8.0	3.6	4.3
France.....	24,393	5,681	1.2	0.7	6.1	4.4	2.8	1.6
Germany.....	29,164	6,435	2.3	1.7	8.6	6.3	4.5	1.8
Greece.....	1,487	448	0.2	0.1	3.5	4.4	3.8	0.7
Ireland.....	941	286	0.7	0.3	1.6	1.4	1.2	0.2
Italy.....	12,821	3,096	1.0	0.8	7.2	5.3	3.5	1.8
Netherlands.....	9,797	2,192	1.4	0.6	4.3	3.9	2.4	1.5
Portugal.....	542	203	0.1	0.0	2.0	0.5	0.5	0.0
Spain.....	6,109	1,255	0.4	0.4	3.6	1.8	1.0	0.8
Sweden.....	8,767	2,211	1.2	0.3	8.9	4.6	2.9	1.7
United Kingdom.....	40,335	7,125	3.4	1.9	4.4	2.6	1.8	0.8
Japan.....	36,041	3,097	3.4	1.2	2.5	1.9	1.2	0.7
East Asia-4.....	8,194	1,824	1.0	0.3	1.5	0.9	0.6	0.2
China.....	5,256	1,181	0.6	0.3	1.9	1.3	0.9	0.2
Singapore.....	468	111	5.0	2.0	1.7	0.9	0.0	0.9
South Korea.....	909	249	1.8	0.1	0.2	0.5	0.5	0.0
Taiwan.....	1,581	303	0.9	0.2	0.7	0.0	0.0	0.0
Other regions/countries								
Other Asia								
Bangladesh.....	129	63	8.8	2.9	1.2	1.5	1.5	0.0
India.....	9,403	976	1.4	na	2.7	2.6	1.0	1.6
Indonesia.....	106	81	2.0	0.3	1.1	0.0	0.0	0.0
Malaysia.....	254	83	5.6	0.7	3.2	0.0	0.0	0.0
Pakistan.....	277	78	11.0	1.2	7.4	0.0	0.0	0.0
Philippines.....	171	83	8.1	2.8	0.0	0.0	0.0	0.0
Sri Lanka.....	144	66	14.5	1.5	2.6	0.0	0.0	0.0
Thailand.....	397	205	5.9	2.2	1.2	0.0	0.0	0.0
Vietnam.....	71	37	5.2	0.0	0.0	37.1	15.5	21.6
Other Western Europe								
Cyprus.....	18	5	0.0	0.0	0.0	0.0	0.0	0.0
Iceland.....	94	44	0.0	0.0	6.6	1.3	0.0	1.3
Norway.....	2,564	684	1.4	1.1	3.4	4.2	3.0	1.2
Switzerland.....	6,764	2,485	1.1	0.6	1.4	3.0	1.7	1.3
Turkey.....	576	129	4.4	1.5	7.1	1.5	0.4	1.1
Yugoslavia.....	1,482	491	0.1	0.0	3.9	13.8	4.5	9.3
Eastern Europe/former USSR								
Bulgaria.....	1,233	270	0.5	0.5	1.9	44.4	5.9	38.5
Hungary.....	2,110	718	1.0	0.8	4.4	17.3	3.1	14.2
Poland.....	4,696	1,211	0.8	0.3	3.5	11.5	2.3	9.2
Romania.....	440	88	1.3	1.1	3.3	25.1	4.9	20.2
Former USSR.....	32,240	615	2.4	1.0	6.3	33.3	33.3	na

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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: 1988

(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
Central/South America.....	6,612	1,896	0.9	0.6	1.7	2.3	1.0	1.3
Argentina.....	1,566	266	0.3	0.3	2.1	0.1	0.1	0.0
Brazil.....	2,100	621	1.0	0.7	1.3	2.1	1.4	0.7
Chile.....	820	247	0.4	0.4	2.1	0.4	0.4	0.0
Colombia.....	118	59	0.0	0.0	0.0	0.0	0.0	0.0
Costa Rica.....	80	47	2.0	2.0	2.0	0.0	0.0	0.0
Cuba.....	98	55	0.5	0.0	0.5	33.5	2.4	31.1
Mexico.....	1,058	321	0.8	0.8	2.2	2.4	1.8	0.5
Peru.....	108	70	3.2	0.6	1.2	0.0	0.0	0.0
Uruguay.....	50	16	0.0	0.0	0.0	3.1	3.1	0.0
Venezuela.....	360	124	0.8	0.3	1.5	0.5	0.5	0.0
Near East/North Africa.....	9,326	2,691	0.9	0.7	1.9	1.7	1.3	0.4
Algeria.....	109	78	0.0	0.0	0.0	3.5	2.3	1.2
Egypt.....	1,292	306	1.6	1.2	0.9	5.2	4.6	0.6
Iran.....	112	47	1.9	1.9	0.0	4.5	4.5	0.0
Israel.....	5,845	1,706	0.3	0.3	2.2	0.8	0.7	0.1
Jordan.....	191	55	2.2	2.2	1.6	0.0	0.0	0.0
Kuwait.....	342	74	0.9	0.9	3.5	3.8	1.3	2.5
Lebanon.....	64	17	0.0	0.0	0.0	0.0	0.0	0.0
Morocco.....	178	119	0.0	0.0	0.8	0.0	0.0	0.0
Oman.....	22	14	0.0	0.0	5.8	0.0	0.0	0.0
Saudi Arabia.....	638	131	2.2	1.4	1.9	0.0	0.0	0.0
Tunisia.....	139	79	0.0	0.0	0.5	0.0	0.0	0.0
United Arab Emirates.....	29	11	0.0	0.0	0.0	0.0	0.0	0.0
Sub-Saharan Africa.....	5,195	1,247	1.2	0.8	3.4	0.7	0.5	0.2
Cameroon.....	52	31	0.0	0.0	2.9	0.0	0.0	0.0
Ethiopia.....	91	37	0.0	0.0	5.1	0.0	0.0	0.0
Ghana.....	48	18	0.0	0.0	0.0	0.0	0.0	0.0
Kenya.....	371	146	1.9	1.9	6.1	0.0	0.0	0.0
Nigeria.....	966	153	1.8	1.8	0.6	1.3	0.6	0.6
Senegal Republic.....	0	0	na	na	na	na	na	na
South Africa.....	2,724	385	0.1	0.0	2.4	0.3	0.2	0.0
Tanzania.....	86	39	3.9	2.3	5.4	0.0	0.0	0.0
Uganda.....	25	7	0.0	0.0	0.0	14.0	0.0	14.0
Zimbabwe.....	144	52	0.0	0.0	0.0	0.0	0.0	0.0
Other			0.0					
Australia.....	10,951	1,985	3.6	1.1	2.1	0.8	0.5	0.3
Canada.....	24,008	4,906	2.0	1.6	2.4	2.4	1.9	0.5
New Zealand.....	2,349	493	1.5	0.5	1.9	0.2	0.0	0.2

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). Germany data include former West Germany only. 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.