

Appendix table 5-54

S&E articles in social sciences, by coauthorship attribute and selected country/economy: 1997–2012

Country/economy and coauthorship attribute	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
World																
Total articles	20,069	19,895	20,298	21,014	21,389	20,889	23,028	22,078	24,509	25,986	27,513	35,518	31,421	32,432	31,414	38,877
with multiple institutions	6,077	5,990	6,074	6,661	7,171	7,184	8,403	8,071	9,024	9,920	10,986	14,741	13,920	14,924	14,911	18,749
with domestic institutions only	18,317	18,090	18,370	18,993	19,046	18,503	20,195	19,360	21,457	22,471	23,470	30,042	25,939	26,628	25,524	31,307
with international institutions	1,752	1,805	1,928	2,021	2,343	2,386	2,833	2,718	3,052	3,515	4,043	5,476	5,482	5,804	5,890	7,570
Canada																
Total articles	1,293	1,213	1,240	1,147	1,338	1,271	1,479	1,403	1,503	1,560	1,689	2,050	1,939	2,069	1,977	2,246
with multiple institutions	529	441	488	493	564	576	668	617	680	724	853	1,015	985	1,099	1,055	1,305
with domestic institutions only	1,018	947	967	881	1,014	931	1,094	1,036	1,095	1,131	1,152	1,415	1,319	1,381	1,306	1,401
with international institutions	275	266	273	266	324	340	385	367	408	429	537	635	620	688	671	845
Mexico																
Total articles	79	50	60	59	77	66	103	81	93	117	117	268	144	139	126	178
with multiple institutions	29	27	25	28	40	35	50	46	41	59	59	117	93	99	90	123
with domestic institutions only	57	24	40	34	44	38	67	44	62	65	72	183	73	64	60	95
with international institutions	22	26	20	25	33	28	36	37	31	52	45	85	71	75	66	83
United States																
Total articles	10,473	10,268	10,323	10,453	10,640	10,446	11,301	10,491	11,592	11,578	12,032	14,293	13,499	13,376	13,204	15,456
with multiple institutions	3,858	3,707	3,646	3,902	4,132	4,143	4,730	4,420	4,890	5,100	5,500	6,937	6,747	6,820	6,932	8,301
with domestic institutions only	9,379	9,221	9,196	9,326	9,342	9,097	9,728	9,043	9,990	9,837	10,004	11,659	10,838	10,770	10,487	11,982
with international institutions	1,094	1,047	1,127	1,127	1,298	1,349	1,573	1,448	1,602	1,741	2,028	2,634	2,661	2,606	2,717	3,474
Argentina																
Total articles	44	52	30	37	59	46	56	50	52	64	52	151	90	63	89	92
with multiple institutions	19	27	12	18	31	30	39	31	27	31	25	85	57	47	61	66
with domestic institutions only	34	35	22	28	36	21	32	27	32	41	34	104	57	28	43	53
with international institutions	10	17	8	9	23	25	24	23	20	23	18	47	33	35	46	39
Brazil																
Total articles	74	84	93	102	139	95	109	123	152	176	153	319	235	256	244	338
with multiple institutions	41	37	49	45	62	53	56	60	83	105	92	171	147	162	155	222
with domestic institutions only	43	54	53	72	100	55	73	83	98	109	90	224	136	165	142	203
with international institutions	31	30	40	30	39	40	36	40	54	67	63	95	99	91	102	135
Chile																
Total articles	25	22	18	41	28	29	41	35	56	71	71	179	108	109	140	179
with multiple institutions	10	14	11	19	10	16	20	19	36	38	43	97	70	71	103	129
with domestic institutions only	15	10	10	25	20	15	26	17	28	45	36	114	58	49	71	90
with international institutions	10	12	8	16	8	14	15	18	28	26	35	65	50	60	69	89
Austria																
Total articles	90	124	119	129	128	103	150	165	158	179	210	296	272	294	273	368
with multiple institutions	30	54	41	59	54	49	80	85	85	93	128	164	162	188	187	247
with domestic institutions only	68	83	86	87	86	61	90	99	88	106	111	171	141	138	127	164
with international institutions	22	41	33	42	42	42	60	66	70	73	99	125	131	156	146	204

Appendix table 5-54

S&E articles in social sciences, by coauthorship attribute and selected country/economy: 1997–2012

Country/economy and coauthorship attribute	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Belgium																
Total articles	157	184	186	215	217	197	244	289	306	286	357	457	433	504	479	618
with multiple institutions	76	101	118	124	106	111	140	163	183	169	234	290	295	345	318	421
with domestic institutions only	97	94	85	113	127	100	125	148	160	156	184	227	197	237	226	283
with international institutions	60	90	101	102	90	97	119	141	146	130	173	230	236	267	253	335
Czech Republic																
Total articles	105	82	91	87	94	99	77	145	119	123	153	303	178	170	189	215
with multiple institutions	25	13	22	19	32	23	28	48	33	41	46	83	74	77	102	97
with domestic institutions only	89	72	74	73	74	87	59	119	103	101	133	260	143	125	141	163
with international institutions	16	10	17	14	20	12	18	26	16	22	20	43	35	45	48	52
Denmark																
Total articles	117	135	153	152	210	182	180	210	236	252	280	389	371	395	406	515
with multiple institutions	54	49	62	55	92	79	79	95	106	137	131	200	196	213	210	278
with domestic institutions only	80	100	107	116	137	128	118	142	159	149	182	231	214	224	238	291
with international institutions	37	35	46	36	73	54	62	68	77	103	98	158	157	171	168	224
Finland																
Total articles	93	110	108	110	124	144	167	146	158	173	174	271	264	278	230	303
with multiple institutions	32	54	39	52	54	63	65	66	78	84	89	137	128	151	124	171
with domestic institutions only	75	79	88	72	91	110	123	112	105	114	121	193	182	182	152	206
with international institutions	18	31	20	38	33	34	44	34	53	59	53	78	82	96	78	97
France																
Total articles	479	609	571	693	534	630	716	689	774	821	900	1,223	1,109	1,074	1,157	1,397
with multiple institutions	228	271	259	332	274	304	361	375	410	449	509	755	719	693	784	957
with domestic institutions only	330	429	401	500	356	445	482	451	525	553	562	716	641	597	616	744
with international institutions	149	180	170	193	178	185	234	238	249	268	338	507	468	477	541	653
Germany																
Total articles	865	810	864	945	961	993	1,066	1,102	1,242	1,453	1,538	2,041	1,969	1,902	1,974	2,585
with multiple institutions	205	220	247	280	325	337	405	447	567	651	766	1,060	1,079	1,111	1,209	1,586
with domestic institutions only	735	678	694	760	747	762	787	801	841	996	988	1,279	1,200	1,103	1,119	1,473
with international institutions	130	132	170	185	214	231	279	301	401	457	550	762	769	799	855	1,112
Greece																
Total articles	81	89	61	91	87	94	142	150	146	162	154	212	194	202	209	231
with multiple institutions	33	31	35	39	47	48	68	83	62	77	80	111	114	110	114	141
with domestic institutions only	60	69	34	69	58	63	101	101	112	111	102	131	133	127	132	139
with international institutions	21	20	27	22	29	31	41	49	34	51	52	81	61	75	77	92
Hungary																
Total articles	36	42	34	45	46	52	53	48	50	61	60	112	69	69	59	114
with multiple institutions	13	17	20	24	19	31	25	24	25	32	38	54	46	44	37	74
with domestic institutions only	26	28	18	25	32	27	31	27	27	32	24	80	29	36	31	58
with international institutions	10	14	16	20	14	25	22	21	23	29	36	32	40	33	28	56

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S&E articles in social sciences, by coauthorship attribute and selected country/economy: 1997–2012

Country/economy and coauthorship attribute	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Ireland																
Total articles	56	79	68	100	88	89	109	91	119	133	179	231	212	237	234	284
with multiple institutions	13	26	24	35	43	32	53	39	57	70	96	111	119	141	130	157
with domestic institutions only	46	58	45	69	53	62	71	62	75	73	103	141	125	131	136	172
with international institutions	10	21	23	31	35	27	38	29	44	60	76	90	87	106	98	112
Italy																
Total articles	242	237	249	313	362	342	374	404	404	520	611	926	823	817	879	1,134
with multiple institutions	127	118	127	161	191	194	216	227	211	302	372	584	529	525	569	801
with domestic institutions only	164	157	162	197	228	213	218	243	244	294	352	538	471	472	480	594
with international institutions	78	80	87	116	134	129	156	161	160	226	259	388	352	345	399	540
Netherlands																
Total articles	552	564	550	577	623	635	696	688	801	863	1,027	1,194	1,256	1,367	1,275	1,631
with multiple institutions	260	253	254	278	301	315	394	386	450	490	585	749	791	849	812	1,096
with domestic institutions only	411	412	406	412	444	433	471	464	521	564	650	701	712	787	688	867
with international institutions	141	152	144	165	179	202	225	224	280	299	377	493	544	580	587	764
Poland																
Total articles	45	38	44	49	41	55	58	59	65	96	95	167	103	103	117	166
with multiple institutions	23	20	24	24	23	34	26	26	27	35	46	64	48	57	69	105
with domestic institutions only	24	23	24	29	18	31	36	37	44	69	60	120	67	60	74	96
with international institutions	21	15	20	20	23	24	22	22	21	27	35	47	36	43	43	70
Portugal																
Total articles	21	26	39	41	40	52	50	73	80	122	120	183	182	205	233	288
with multiple institutions	12	12	18	25	22	33	31	43	47	73	75	106	128	130	167	208
with domestic institutions only	12	16	23	21	21	25	24	41	49	74	69	116	87	122	131	161
with international institutions	9	10	16	20	19	27	26	32	31	48	51	67	95	83	102	127
Spain																
Total articles	212	224	239	270	330	335	406	400	465	671	752	1,236	871	929	978	1,292
with multiple institutions	110	107	126	135	185	182	223	208	252	354	391	632	537	595	645	866
with domestic institutions only	140	153	156	186	222	239	258	272	305	468	527	857	536	579	583	785
with international institutions	72	71	83	84	108	96	148	128	160	203	225	379	335	350	395	507
Sweden																
Total articles	246	257	304	281	285	314	348	322	423	421	436	661	629	665	651	844
with multiple institutions	93	94	111	109	131	143	154	137	191	214	220	344	337	347	400	493
with domestic institutions only	180	204	236	206	198	227	251	246	304	289	283	445	401	425	384	530
with international institutions	66	53	68	75	87	87	97	76	119	132	153	216	228	240	267	314
United Kingdom																
Total articles	2,917	3,044	3,079	3,505	3,331	3,146	3,656	3,495	3,924	4,273	4,628	5,079	4,883	5,158	4,949	6,376
with multiple institutions	895	1,012	1,024	1,169	1,300	1,227	1,559	1,452	1,615	1,741	2,000	2,384	2,390	2,572	2,561	3,178
with domestic institutions only	2,464	2,523	2,542	2,889	2,593	2,424	2,744	2,628	2,996	3,218	3,391	3,580	3,283	3,489	3,201	4,302
with international institutions	453	521	537	616	738	722	912	867	928	1,055	1,237	1,499	1,600	1,669	1,748	2,074

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S&E articles in social sciences, by coauthorship attribute and selected country/economy: 1997–2012

Country/economy and coauthorship attribute	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Norway																
Total articles	176	176	173	183	184	199	233	227	259	291	333	457	432	467	475	582
with multiple institutions	59	69	60	71	80	87	110	106	111	133	171	223	225	279	288	314
with domestic institutions only	141	135	134	144	135	142	165	163	194	209	226	323	284	282	282	377
with international institutions	35	41	39	39	49	57	68	64	65	82	107	134	148	185	193	205
Russia																
Total articles	265	233	333	262	227	256	271	227	200	208	207	168	159	235	261	280
with multiple institutions	49	45	66	58	39	60	64	42	47	50	46	54	35	60	79	94
with domestic institutions only	234	203	293	227	199	219	230	194	161	167	170	126	126	186	213	200
with international institutions	31	30	40	35	28	37	41	33	39	41	37	42	33	49	48	80
Switzerland																
Total articles	148	153	143	183	215	197	290	242	287	358	376	523	502	556	553	698
with multiple institutions	60	55	70	83	92	91	152	134	163	184	214	310	292	372	376	431
with domestic institutions only	95	109	87	115	145	129	176	136	155	215	191	273	279	253	246	356
with international institutions	53	44	56	68	70	68	114	106	132	143	185	250	223	303	307	342
Iran																
Total articles	2	6	1	7	6	9	15	6	14	24	40	44	56	68	55	71
with multiple institutions	1	4	-	4	3	6	5	2	7	13	24	24	32	35	48	43
with domestic institutions only	1	2	1	3	3	4	10	5	9	13	25	30	41	50	23	46
with international institutions	1	4	-	4	3	5	5	1	5	11	15	14	15	18	32	25
Israel																
Total articles	326	325	304	292	310	308	344	339	307	357	329	492	411	423	379	421
with multiple institutions	142	133	141	122	154	154	173	177	154	205	183	266	240	247	234	256
with domestic institutions only	228	231	202	200	198	201	230	223	205	223	201	324	265	273	237	263
with international institutions	98	94	102	92	112	107	114	116	102	134	128	168	146	150	142	158
Saudi Arabia																
Total articles	6	12	10	8	4	7	8	10	7	6	3	10	11	11	13	23
with multiple institutions	1	-	2	3	-	2	5	4	1	1	1	6	4	6	9	16
with domestic institutions only	5	12	8	5	4	5	3	6	6	5	2	7	7	6	6	8
with international institutions	1	-	2	3	-	2	5	4	1	1	1	3	4	5	7	15
Turkey																
Total articles	54	62	63	69	90	103	124	126	175	207	240	437	296	312	273	385
with multiple institutions	16	18	28	18	31	45	59	45	77	89	115	170	136	149	128	212
with domestic institutions only	41	48	39	55	69	72	81	102	133	158	174	356	222	242	209	270
with international institutions	13	14	24	14	21	31	43	24	42	49	66	81	74	70	64	115
Egypt																
Total articles	9	21	10	12	12	13	11	14	11	10	21	24	32	37	29	49
with multiple institutions	2	10	5	8	4	5	5	7	3	4	9	19	17	25	20	29
with domestic institutions only	7	14	5	6	8	9	6	9	8	6	14	7	18	15	12	24
with international institutions	2	7	5	6	4	4	5	5	3	4	7	17	14	22	17	25

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S&E articles in social sciences, by coauthorship attribute and selected country/economy: 1997–2012

Country/economy and coauthorship attribute	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
South Africa																
Total articles	149	119	116	119	155	185	174	193	228	292	255	434	280	332	290	426
with multiple institutions	53	35	44	49	63	70	81	84	87	114	103	200	144	185	162	256
with domestic institutions only	119	92	82	77	103	135	112	123	163	205	194	292	168	201	163	216
with international institutions	30	27	34	42	52	50	62	70	65	87	61	142	112	131	127	210
China																
Total articles	269	207	243	250	315	302	310	369	372	497	628	795	813	968	1,018	1,375
with multiple institutions	114	103	123	122	170	171	178	215	219	310	413	508	571	697	724	993
with domestic institutions only	175	124	148	160	180	175	181	202	205	265	313	434	386	472	506	654
with international institutions	94	83	95	90	135	127	129	167	167	232	315	361	427	496	512	721
India																
Total articles	177	139	167	171	189	179	170	192	185	192	258	344	294	309	251	346
with multiple institutions	41	50	37	50	58	56	70	69	65	90	111	146	152	160	135	208
with domestic institutions only	149	103	140	135	153	136	116	151	150	130	186	247	179	205	152	196
with international institutions	28	36	27	36	36	43	54	41	35	62	72	97	115	104	99	150
Japan																
Total articles	283	331	340	349	363	350	378	354	392	465	512	665	580	586	568	714
with multiple institutions	105	142	136	124	157	160	151	173	178	230	262	355	300	333	311	432
with domestic institutions only	220	237	271	290	271	260	292	256	291	339	372	503	411	405	383	474
with international institutions	63	94	69	59	92	90	86	98	101	126	140	162	169	181	185	240
Singapore																
Total articles	60	62	77	87	104	85	140	120	131	189	158	194	221	205	175	305
with multiple institutions	16	20	30	27	26	36	47	50	47	78	68	95	127	118	101	188
with domestic institutions only	47	45	53	63	82	50	100	77	89	124	100	112	107	101	80	145
with international institutions	13	17	24	24	22	35	40	43	42	65	58	82	114	104	95	160
South Korea																
Total articles	73	71	113	93	144	131	155	163	181	216	253	393	353	391	344	553
with multiple institutions	36	42	47	51	81	59	76	81	86	126	149	223	217	253	205	343
with domestic institutions only	41	33	77	55	92	94	97	107	120	133	138	237	194	192	191	310
with international institutions	32	38	36	38	52	37	58	56	61	83	115	156	159	199	153	243
Taiwan																
Total articles	76	78	90	101	118	136	128	130	200	211	268	390	366	387	461	549
with multiple institutions	31	43	51	49	54	79	59	67	119	116	155	254	223	254	309	370
with domestic institutions only	53	49	54	72	89	94	95	100	149	159	215	292	268	284	338	401
with international institutions	23	29	36	29	29	42	33	30	51	52	53	98	98	103	123	148
Australia																
Total articles	823	817	892	810	864	814	852	858	953	1,079	1,166	1,788	1,535	1,652	1,453	2,055
with multiple institutions	260	228	273	281	314	332	361	346	387	452	530	767	823	865	817	1,143
with domestic institutions only	685	692	733	635	677	590	619	653	728	786	847	1,319	1,002	1,074	923	1,324
with international institutions	138	125	159	175	187	224	233	205	225	293	319	469	533	578	530	731

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S&E articles in social sciences, by coauthorship attribute and selected country/economy: 1997–2012

Country/economy and coauthorship attribute	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
New Zealand																
Total articles	141	140	160	157	167	160	199	155	211	249	283	366	312	332	326	387
with multiple institutions	46	39	57	67	69	67	96	67	104	142	133	177	175	185	196	200
with domestic institutions only	106	109	117	108	114	104	130	103	132	135	181	236	172	182	164	231
with international institutions	35	31	43	49	53	56	69	52	79	114	102	130	140	150	162	156

NOTES: Article counts are from the set of journals covered by the Science Citation Index (SCI) and Social Sciences Citation Index (SSCI). Articles are classified by the year they entered the database, rather than the year of publication, and are assigned to a country/economy on the basis of the institutional address(es) listed in the article. Articles are credited on a whole-count basis (i.e., each collaborating country/economy is credited with one count). Countries/economies with less than 1% of internationally coauthored articles in 2012 are omitted. Articles with multiple institutions are counts of articles with two or more institutional addresses. Articles with domestic institutions only are counts of articles with one or more institutional addresses all within the country/economy. Articles with international institutions are counts of articles with one or more institutional addresses outside the country/economy.

SOURCES: National Science Foundation, National Center for Science and Engineering Statistics, and The Patent Board™, special tabulations (2013) from Thomson Reuters, SCI and SSCI, http://thomsonreuters.com/products_services/science/.

Science and Engineering Indicators 2014