TABLE S5A-33

Internationally coauthored S&E publications, by selected region, country, or economy pairs: 1996 and 2018

(Number)

Region, country, or economy, and year	World	Canada	Mexico	United States	Argentina	Brazil	Chile	Austria	Belgium	Czechia	Denmark	Finland	France	Germany	Greece	Ireland	Italy	Netherlands	Poland	Portugal	Spain	Sweden	United Kingdom	Norway	Russia	Switzerland	Turkey	Iran	Israel	Saudi Arabia	Egypt	South Africa	China	India	Japan	Malaysia	Pakistan	Singapore	South Korea	Taiwan	Thailand	Australia	New Zealand
World																																										
1996	120,323	12,912	1,659	56,092	1,254	2,940	772	2,802	4,402	1,831	3,251	2,371	16,635	21,933	1,645	1,063	9,893	7,364	3,756	1,069	6,338	5,919	23,077	1,982	7,202	6,917	959	305	3,628	487	905	1,252	5,674	3,172	12,078	369	304	820	2,537	1,896	555	6,771	1,658
2018	575,857	51,287	9,583	215,388	6,004	24,610	8,097	15,183	20,667	10,449	16,670	11,323	60,916	82,089	9,029	8,050	50,243	33,713	14,950	12,534	42,137	24,740	99,924	12,687	21,530	29,476	9,698	13,277	9,790	16,037	10,176	11,188	126,868	26,684	36,050	11,954	9,810	13,216	22,422	11,542	6,486	50,584	8,258
Canada																																										
1996	12,912	na	103	6,676	59	165	41	109	178	82	157	89	1,128	904	96	56	427	350	193	32	234	271	1,422	79	261	380	46	41	221	41	50	78	504	230	748	12	13	59	96	84	25	545	149
2018	51,287	na	697	21,968	576	2,138	725	1,060	1,522	623	1,352	822	5,080	5,203	570	722	3,171	2,802	990	712	2,382	1,871	7,483	1,144	1,037	2,434	625	1,436	1,007	863	630	948	9,449	1,436	2,159	393	407	663	1,110	708	281	4,298	830
Mexico																																										
1996	1,659	103	na	755	38	58	23	4	25	20	11	11	142	81	9	5	44	33	35	4	179	10	151	4	74	22	8	0	23	0	3	1	15	31	45	0	0	2	13	3	4	25	5
2018	9,583	697	na	3,660	470	938	539	328	420	306	199	306	1,131	1,005	295	232	847	398	381	356	2,020	258	1,165	143	516	461	300	259	122	147	218	188	720	546	335	218	264	81	358	232	222	490	264
United States																																										
1996	56,092	6,676	755	na	423	1,169	294	703	1,028	406	948	766	4,506	6,868	530	239	3,205	2,152	1,015	211	1,733	1,730	7,048	549	1,787	2,331	357	83	2,112	149	303	432	2,122	1,387	5,777	67	105	249	1,704	1,422	219	2,313	578
2018	215,388	21,968	3,660	na	2,061	8,671	2,774	3,880	5,171	2,324	4,850	2,933	15,422	23,616	2,499	2,250	13,804	9,984	3,628	2,301	10,236	7,034	28,616	3,406	4,881	9,403	3,077	3,247	4,933	3,073	2,007	3,485	55,382	8,058	11,533	1,323	1,623	3,433	9,761	4,209	1,944	13,939	2,474
Argentina																																										
1996	1,254	59	38	423	na	120	58	9	19	7	15	9	149	98	3	3	89	28	7	2	192	34	84	4	15	18	2	0	10	0	2	4	8	11	28	0	0	0	10	2	0	36	5
2018	6,004	576	470	2,061	na	1,115	699	291	260	248	306	92	829	916	215	79	684	419	263	295	1,360	308	779	225	255	442	210	71	225	55	46	297	390	179	316	113	48	68	122	180	40	524	88
Brazil																																										
1996	2,940	165	58	1,169	120	na	63	47	88	50	39	39	384	266	27	10	172	76	56	69	140	87	416	32	137	84	3	0	24	1	5	11	33	48	112	5	1	2	14	10	4	51	11
2018	24,610	2,138	938	8,671	1,115	na	1,047	691	894	586	770	565	2,966	2,976	522	467	2,440	1,308	770	2,421	2,893	1,061	3,672	496	855	1,243	521	412	389	269	267	589	1,442	999	1,001	357	370	165	552	455	334	1,729	377
Chile																																										
1996	772	41	23	294	58	63	na	5	16	2	6	4	76	86	2	0	30	16	5	4	87	26	88	3	8	18	0	0	7	0	1	7	7	7	14	1	1	0	1	0	2	26	5
2018	8,097	725	539	2,774	699	1,047	na	315	287	243	366	175	1,179	1,343	233	105	920	515	343	372	2,157	414	1,476	242	312	550	226	115	260	100	47	341	569	278	431	130	44	56	183	220	54	821	158
Austria																																										
1996	2,802	109	4	703	9	47	5	na	72	109	92	67	228	947	55	15	192	131	123	34	125	94	313	49	128	261	9	2	32	6	16	33	62	16	76	1	0	3	32	1	11	63	13
2018	15,183	1,060	328	3,880	291	691	315	na	1,139	1,148	850	684	2,212	5,959	758	479	2,557	1,594	1,104	695	1,740	1,266	2,921	750	865	2,081	565	356	475	222	253	385	1,168	517	806	281	297	166	428	378	305	1,070	294
Belgium																																										
1996	4,402	178	25	1,028	19	88	16	72	na	101	135	84	978	654	103	38	347	652	140	85	271	222	648	73	177	233	18	5	44	6	17	29	68	32	135	2	0	3	10	11	8	83	12
2018	20,667	1,522	420	5,171	260	894	287	1,139	na	772	1,072	839	4,684	4,351	793	674	3,371	4,125	1,011	953	2,620	1,411	4,796	725	775	2,165	496	350	459	221	307	555	1,702	581	897	252	244	209	522	329	270	1,553	438
Czechia																																										
1996	1,831	82	20	406	7	50	2	109	101	na	40	43	268	400	43	4	149	120	108	35	94	109	219	40	150	121	3	1	25	0	5	12	14	7	69	1	0	0	5	10	0	31	2
2018	10,449	623	306	2,324	248	586	243	1,148	772	na	518	578	1,698	2,489	603	355	1,614	850	1,488	611	1,295	845	1,843	521	1,109	1,040	527	266	388	176	234	321	942	510	687	335	244	94	406	410	235	654	248
Denmark																																										
1996	3,251	157	11	948	15	39	6	92	135	40	na	132	319	536	75	20	258	265	105	48	175	487	609	213	150	155	8	0	38	3	5	17	64	27	96	0	0	9	27	5	9	90	27
2018	16,670	1,352	199	4,850	306	770	366	850	1,072	518	na	992	2,198	3,598	571	426	2,145	2,217	786	665	1,858	2,625	4,072	1,666	541	1,479	397	328	503	141	94	413	2,033	405	769	205	117	208	330	272	122	1,672	274
Finland																																										
1996	2,371	89	11	766	9	39	4	67	84	43	132	na	186	328	50	18	152	164	86	34	104	409	321	147	221	127	8	0	20	0	8	2	48	31	120	1	0	8	16	15	1	49	11
2018	11,323	822	306	2,933	92	565	175	684	839	578	992	na	1,485	2,350	579	482	1,523	1,179	754	576	1,318	2,210	2,579	913	1,090	1,025	383	337	248	205	229	276	1,344	510	633	227	268	156	421	270	219	868	299

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France																																										
1996	16,635	1,128	142	4,506	149	384	76	228	978	268	319	186	na	2,237	275	88	1,577	835	540	206	1,141	518	2,218	182	841	1,119	51	13	289	25	21	75	276	224	598	8	6	14	93	52	24	338	54
2018	60,916	5,080	1,131	15,422	829	2,966	1,179	2,212	4,684	1,698	2,198	1,485	na	10,664	1,647	1,153	9,048	4,873	2,380	1,870	6,755	3,100	11,015	1,650	2,905	5,593	1,038	775	1,241	787	497	1,134	5,472	1,815	3,175	530	465	634	1,148	799	543	3,573	766
Germany																																										
1996	21,933	904	81	6,868	98	266	86	947	654	400	536	328	2,237	na	321	116	1,398	1,315	796	150	822	738	2,672	251	1,660	1,785	85	10	465	16	88	150	585	376	1,053	12	32	24	129	74	20	567	106
2018	82,089	5,203	1,005	23,616	916	2,976	1,343	5,959	4,351	2,489	3,598	2,350	10,664	na	2,017	1,446	9,729	8,372	3,556	1,938	7,448	5,145	15,327	2,389	4,508	9,060	1,375	1,106	1,954	820	1,021	1,424	8,206	2,227	4,288	548	706	801	1,796	1,034	585	5,344	1,036
Greece																																										
1996	1,645	96	9	530	3	27	2	55	103	43	75	50	275	321	na	17	189	113	47	49	104	67	425	51	66	115	10	0	19	2	2	8	36	9	45	1	0	0	27	6	0	15	1
2018	9,029	570	295	2,499	215	522	233	758	793	603	571	579	1,647	2,017	na	429	2,053	1,032	782	648	1,505	743	2,754	513	657	1,069	617	299	394	273	263	280	855	421	434	270	223	101	321	338	212	658	220
Ireland																																										
1996	1,063	56	5	239	3	10	0	15	38	4	20	18	88	116	17	na	63	87	6	10	43	40	453	15	13	29	6	0	8	4	1	4	15	4	19	2	0	3	3	2	2	31	6
2018	8,050	722	232	2,250	79	467	105	479	674	355	426	482	1,153	1,446	429	na	1,193	920	547	465	1,074	603	3,138	327	411	741	292	243	214	156	202	166	997	351	277	233	212	106	240	199	183	819	316
Italy																																										
1996	9,893	427	44	3,205	89	172	30	192	347	149	258	152	1,577	1,398	189	63	na	576	315	92	674	389	1,582	126	527	783	33	8	183	6	27	41	216	128	376	3	7	6	77	55	6	165	16
2018	50,243	3,171	847	13,804	684	2,440	920	2,557	3,371	1,614	2,145	1,523	9,048	9,729	2,053	1,193	na	4,919	2,459	1,920	7,557	3,101	11,198	1,530	2,079	4,954	1,219	1,151	1,386	567	547	827	3,492	1,448	2,114	458	506	413	1,033	705	384	2,955	645
Netherlands																																										
1996	7,364	350	33	2,152	28	76	16	131	652	120	265	164	835	1,315	113	87	576	na	171	107	404	320	1,314	157	324	420	39	2	137	12	10	42	116	84	243	5	9	4	54	25	14	188	37
2018	33,713	2,802	398	9,984	419	1,308	515	1,594	4,125	850	2,217	1,179	4,873	8,372	1,032	920	4,919	na	1,393	1,175	3,637	2,742	8,880	1,578	1,087	3,289	725	465	847	295	164	1,043	3,194	745	1,420	301	189	496	533	427	258	3,224	452
Poland																																										
1996	3,756	193	35	1,015	7	56	5	123	140	108	105	86	540	796	47	6	315	171	na	39	166	210	388	70	320	199	12	4	50	2	18	27	34	30	161	1	2	4	23	8	1	41	11
2018	14,950	990	381	3,628	263	770	343	1,104	1,011	1,488	786	754	2,380	3,556	782	547	2,459	1,393	na	836	1,921	1,147	2,774	764	1,397	1,342	619	433	510	283	289	431	1,275	787	877	356	266	121	528	487	243	935	270
Portugal																																										
1996	1,069	32	4	211	2	69	4	34	85	35	48	34	206	150	49	10	92	107	39	na	160	60	303	39	58	65	2	0	7	0	0	2	18	8	21	0	1	0	2	5	3	10	3
2018	12,534	712	356	2,301	295	2,421	372	695	953	611	665	576	1,870	1,938	648	465	1,920	1,175	836	na	3,322	791	2,599	539	738	992	530	376	381	186	226	326	993	548	422	292	202	98	325	334	202	777	259
Spain																																										
1996	6,338	234	179	1,733	192	140	87	125	271	94	175	104	1,141	822	104	43	674	404	166	160	na	222	1,139	96	253	260	16	2	91	4	8	18	83	66	121	0	3	3	49	26	3	68	15
2018	42,137	2,382	2,020	10,236	1,360	2,893	2,157	1,740	2,620	1,295	1,858	1,318	6,755	7,448	1,505	1,074	7,557	3,637	1,921	3,322	na	2,337	8,589	1,266	1,560	3,130	960	767	989	535	416	727	2,691	1,126	1,589	444	316	300	827	620	282	2,592	526
Sweden																																										
1996	5,919	271	10	1,730	34	87	26	94	222	109	487	409	518	738	67	40	389	320	210	60	222	na	810	420	296	261	15	3	50	21	8	23	141	47	286	4	9	13	19	10	11	239	34
2018	24,740	1,871	258	7,034	308	1,061	414	1,266	1,411	845	2,625	2,210	3,100	5,145	743	603	3,101	2,742	1,147	791	2,337	na	5,645	2,325	1,079	2,012	498	435	548	233	162	708	2,859	750	1,391	227	241	359	465	296	191	2,152	341
United Kingdom																																										
1996	23,077	1,422	151	7,048	84	416	88	313	648	219	609	321	2,218	2,672	425	453	1,582	1,314	388	303	1,139	810	na	313	684	914	198	69	310	79	71	252	679	393	1,067	108	82	166	122	88	76	1,407	328
2018	99,924	7,483	1,165	28,616	779	3,672	1,476	2,921	4,796	1,843	4,072	2,579	11,015	15,327	2,754	3,138	11,198	8,880	2,774	2,599	8,589	5,645	na	2,979	2,606	6,703	1,504	1,245	1,619	1,458	929	2,602	14,763	3,112	4,085	1,643	1,147	1,791	1,907	1,157	1,088	10,207	1,969
Norway																																										
1996	1,982	79	4	549	4	32	3	49	73	40	213	147	182	251	51	15	126	157	70	39	96	420	313	na	108	97	4	1	18	2	8	3	36	15	64	1	4	2	4	5	0	38	13
2018	12,687	1,144	143	3,406	225	496	242	750	725	521	1,666	913	1,650	2,389	513	327	1,530	1,578	764	539	1,266	2,325	2,979	na	632	1,076	325	197	362	123	90	442	1,193	458	632	171	112	145	202	208	101	1,113	184

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Russia																																											
1996	7,202	261	74	1,787	15	137	8	128	177	150	150	221	841	1,660	66	13	527	324	320	58	253	296	684	108	na	284	28	8	174	2	11	28	96	71	393	0	0	2	88	33	0	98	11
2018	21,530	1,037	516	4,881	255	855	312	865	775	1,109	541	1,090	2,905	4,508	657	411	2,079	1,087	1,397	738	1,560	1,079	2,606	632	na	1,221	629	412	647	333	368	455	2,457	1,073	1,339	316	329	169	873	608	256	995	254
Switzerland																																											
1996	6,917	380	22	2,331	18	84	18	261	233	121	155	127	1,119	1,785	115	29	783	420	199	65	260	261	914	97	284	na	31	7	133	4	18	42	107	71	296	2	11	8	63	38	16	175	32
2018	29,476	2,434	461	9,403	442	1,243	550	2,081	2,165	1,040	1,479	1,025	5,593	9,060	1,069	741	4,954	3,289	1,342	992	3,130	2,012	6,703	1,076	1,221	na	698	459	790	305	290	742	2,253	902	1,572	367	289	390	698	555	345	2,326	480
Turkey																																										
1996	959	46	8	357	2	3	0	9	18	3	8	8	51	85	10	6	33	39	12	2	16	15	198	4	28	31	na	0	13	14	9	3	9	9	56	0	6	1	6	1	0	8	5
2018	9,698	625	300	3,077	210	521	226	565	496	527	397	383	1,038	1,375	617	292	1,219	725	619	530	960	498	1,504	325	629	698	na	825	301	590	369	375	906	614	453	366	538	111	434	376	239	552	211
Iran																																										
1996	305	41	0	83	0	0	0	2	5	1	0	0	13	10	0	0	8	2	4	0	2	3	69	1	8	7	0	na	1	1	0	1	3	11	29	2	1	2	4	3	0	39	3
2018	13,277	1,436	259	3,247	71	412	115	356	350	266	328	337	775	1,106	299	243	1,151	465	433	376	767	435	1,245	197	412	459	825	na	51	338	301	238	1,045	589	360	806	403	122	560	258	249	1,214	268
Israel																																										
1996	3,628	221	23	2,112	10	24	7	32	44	25	38	20	289	465	19	8	183	137	50	7	91	50	310	18	174	133	13	1	na	3	4	31	36	28	129	0	1	5	24	19	7	96	15
2018	9,790	1,007	122	4,933	225	389	260	475	459	388	503	248	1,241	1,954	394	214	1,386	847	510	381	989	548	1,619	362	647	790	301	51	na	67	57	269	947	429	502	103	34	186	225	230	42	692	122
Saudi Arabia																																										
1996	487	41	0	149	0	1	0	6	6	0	3	0	25	16	2	4	6	12	2	0	4	21	79	2	2	4	14	1	3	na	94	6	3	20	9	0	6	0	1	1	0	8	1
2018	16,037	863	147	3,073	55	269	100	222	221	176	141	205	787	820	273	156	567	295	283	186	535	233	1,458	123	333	305	590	338	67	na	3,642	377	2,126	1,884	417	1,017	1,833	120	599	289	146	888	160
Egypt																																										
1996	905	50	3	303	2	5	1	16	17	5	5	8	21	88	2	1	27	10	18	0	8	8	71	8	11	18	9	0	4	94	na	1	12	18	65	3	3	0	10	2	2	8	2
2018	10,176	630	218	2,007	46	267	47	253	307	234	94	229	497	1,021	263	202	547	164	289	226	416	162	929	90	368	290	369	301	57	3,642	na	163	1,003	540	719	332	393	53	462	237	182	321	209
South Africa																																										
1996	1,252	78	1	432	4	11	7	33	29	12	17	2	75	150	8	4	41	42	27	2	18	23	252	3	28	42	3	1	31	6	1	na	25	24	26	0	3	5	1	7	1	107	25
2018	11,188	948	188	3,485	297	589	341	385	555	321	413	276	1,134	1,424	280	166	827	1,043	431	326	727	708	2,602	442	455	742	375	238	269	377	163	na	1,007	1,051	526	221	191	105	200	248	190	1,412	208
China																																										
1996	5,674	504	15	2,122	8	33	7	62	68	14	64	48	276	585	36	15	216	116	34	18	83	141	679	36	96	107	9	3	36	3	12	25	na	100	847	35	11	121	126	167	15	283	50
2018	126,868	9,449	720	55,382	390	1,442	569	1,168	1,702	942	2,033	1,344	5,472	8,206	855	997	3,492	3,194	1,275	993	2,691	2,859	14,763	1,193	2,457	2,253	906	1,045	947	2,126	1,003	1,007	na	2,580	8,024	1,201	3,026	5,563	4,338	4,262	930	13,138	1,347
India																																										
1996	3,172	230	31	1,387	11	48	7	16	32	7	27	31	224	376	9	4	128	84	30	8	66	47	393	15	71	71	9	11	28	20	18	24	100	na	228	47	9	39	44	38	7	114	15
2018	26,684	1,436	546	8,058	179	999	278	517	581	510	405	510	1,815	2,227	421	351	1,448	745	787	548	1,126	750	3,112	458	1,073	902	614	589	429	1,884	540	1,051	2,580	na	1,432	1,254	570	776	2,252	917	541	1,882	357
Japan																																										
1996	12,078	748	45	5,777	28	112	14	76	135	69	96	120	598	1,053	45	19	376	243	161	21	121	286	1,067	64	393	296	56	29	129	9	65	26	847	228	na	45	14	69	481	169	116	401	77
2018	36,050	2,159	335	11,533	316	1,001	431	806	897	687	769	633	3,175	4,288	434	277	2,114	1,420	877	422	1,589	1,391	4,085	632	1,339	1,572	453	360	502	417	719	526	8,024	1,432	na	1,006	207	700	2,505	1,609	1,236	2,408	386
Malaysia																																										
1996	369	12	0	67	0	5	1	1	2	1	0	1	8	12	1	2	3	5	1	0	0	4	108	1	0	2	0	2	0	0	3	0	35	47	45	na	1	16	1	5	7	30	1
2018	11,954	393	218	1,323	113	357	130	281	252	335	205	227	530	548	270	233	458	301	356	292	444	227	1,643	171	316	367	366	806	103	1,017	332	221	1,201	1,254	1,006	na	1,107	410	534	561	547	1,287	324

TABLE S5A-33

Internationally coauthored S&E publications, by selected region, country, or economy pairs: 1996 and 2018

(Number)

Region, country, or economy, and year	World	Canada	Mexico	United States	Argentina	Brazil	Chile	Austria	Belgium	Czechia	Denmark	Finland	France	Germany	Greece	Ireland	Italy	Netherlands	Poland	Portugal	Spain	Sweden	United Kingdom	Norway	Russia	Switzerland	Turkey	Iran	Israel	Saudi Arabia	Egypt	South Africa	China	India	Japan	Malaysia	Pakistan	Singapore	South Korea	Taiwan	Thailand	Australia	New Zealand
Pakistan																																											
1996	304	13	0	105	0	1	1	0	0	0	0	0	6	32	0	0	7	9	2	1	3	9	82	4	0	11	6	1	1	6	3	3	11	9	14	1	na	0	3	2	5	5	0
2018	9,810	407	264	1,623	48	370	44	297	244	244	117	268	465	706	223	212	506	189	266	202	316	241	1,147	112	329	289	538	403	34	1,833	393	191	3,026	570	207	1,107	na	82	1,018	250	277	598	236
Singapore																																											
1996	820	59	2	249	0	2	0	3	3	0	9	8	14	24	0	3	6	4	4	0	3	13	166	2	2	8	1	2	5	0	0	5	121	39	69	16	0	na	4	25	11	85	10
2018	13,216	663	81	3,433	68	165	56	166	209	94	208	156	634	801	101	106	413	496	121	98	300	359	1,791	145	169	390	111	122	186	120	53	105	5,563	776	700	410	82	na	591	363	216	1,498	264
South Korea																																											
1996	2,537	96	13	1,704	10	14	1	32	10	5	27	16	93	129	27	3	77	54	23	2	49	19	122	4	88	63	6	4	24	1	10	1	126	44	481	1	3	4	na	44	4	66	12
2018	22,422	1,110	358	9,761	122	552	183	428	522	406	330	421	1,148	1,796	321	240	1,033	533	528	325	827	465	1,907	202	873	698	434	560	225	599	462	200	4,338	2,252	2,505	534	1,018	591	na	912	459	1,276	341
Taiwan																																											
1996	1,896	84	3	1,422	2	10	0	1	11	10	5	15	52	74	6	2	55	25	8	5	26	10	88	5	33	38	1	3	19	1	2	7	167	38	169	5	2	25	44	na	9	33	5
2018	11,542	708	232	4,209	180	455	220	378	329	410	272	270	799	1,034	338	199	705	427	487	334	620	296	1,157	208	608	555	376	258	230	289	237	248	4,262	917	1,609	561	250	363	912	na	398	861	240
Thailand																																											
1996	555	25	4	219	0	4	2	11	8	0	9	1	24	20	0	2	6	14	1	3	3	11	76	0	0	16	0	0	7	0	2	1	15	7	116	7	5	11	4	9	na	69	7
2018	6,486	281	222	1,944	40	334	54	305	270	235	122	219	543	585	212	183	384	258	243	202	282	191	1,088	101	256	345	239	249	42	146	182	190	930	541	1,236	547	277	216	459	398	na	666	251
Australia																																											
1996	6,771	545	25	2,313	36	51	26	63	83	31	90	49	338	567	15	31	165	188	41	10	68	239	1,407	38	98	175	8	39	96	8	8	107	283	114	401	30	5	85	66	33	69	na	382
2018	50,584	4,298	490	13,939	524	1,729	821	1,070	1,553	654	1,672	868	3,573	5,344	658	819	2,955	3,224	935	777	2,592	2,152	10,207	1,113	995	2,326	552	1,214	692	888	321	1,412	13,138	1,882	2,408	1,287	598	1,498	1,276	861	666	na	2,390
New Zealand																																											
1996	1,658	149	5	578	5	11	5	13	12	2	27	11	54	106	1	6	16	37	11	3	15	34	328	13	11	32	5	3	15	1	2	25	50	15	77	1	0	10	12	5	7	382	na
2018	8,258	830	264	2,474	88	377	158	294	438	248	274	299	766	1,036	220	316	645	452	270	259	526	341	1,969	184	254	480	211	268	122	160	209	208	1,347	357	386	324	236	264	341	240	251	2,390	na

na = not applicable.

Note(s)

Article counts refer to publications from a selection of journals and conference proceedings in S&E from Scopus. Articles are classified by their year of publication and are assigned to a region, country, or economy on the basis of the institutional address(es) of the author(s) listed in the article. Articles are credited on a whole-count basis (i.e., each collaborating region, country, or economy is credited with one count). Regions, countries, or economies that have contributed to less than 1% of all internationally coauthored articles in 2018 are omitted.

Source(s)

National Center for Science and Engineering Statistics, National Science Foundation; Science-Metrix; Elsevier, Scopus abstract and citation database, accessed June 2019.

Science and Engineering Indicators