

Table SPBS-27

S&E articles in mathematics and statistics, whole count, by region, country, or economy: 1996–2020

(Number)

Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	25,376	25,625	25,905	26,509	27,920	28,063	28,493	29,257	31,440	33,783	35,428	38,337	41,534	44,358	44,564	48,252	52,207	57,133	59,675	57,527	56,256	58,982	60,956	64,966	75,537
North America	8,412	8,229	8,045	8,107	8,479	8,232	8,286	8,770	9,015	9,970	10,346	11,223	11,483	11,982	11,669	12,132	12,742	13,297	13,542	13,331	13,385	13,789	13,799	14,386	15,700
Canada	1,138	1,066	984	1,039	1,039	1,012	1,073	1,199	1,265	1,398	1,535	1,557	1,708	1,790	1,736	1,740	1,801	1,903	1,940	1,870	1,798	1,825	1,892	1,927	2,160
Greenland	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
Mexico	128	128	137	169	164	183	204	195	228	284	251	315	303	342	328	319	427	469	479	494	433	495	536	553	698
United States	7,371	7,259	7,151	7,126	7,522	7,263	7,262	7,658	7,833	8,631	8,922	9,733	9,871	10,265	9,988	10,464	10,922	11,368	11,566	11,379	11,576	11,923	11,827	12,399	13,356
Central America and Caribbean	29	23	29	23	25	27	34	34	22	32	40	28	50	53	53	38	52	52	56	65	54	89	67	75	98
Antigua and Barbuda	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bahamas, The	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	4	1	1	3	3	0	2	5
Barbados	0	2	1	0	1	1	3	2	4	3	1	4	1	2	2	2	2	3	1	0	0	3	1	2	0
Belize	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Costa Rica	7	1	5	4	2	1	2	3	0	2	6	3	6	3	5	3	1	2	8	9	10	24	20	22	23
Cuba	6	6	8	5	6	9	15	6	8	14	14	11	25	23	25	14	25	13	21	28	9	23	16	19	14
Dominica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	3
Dominican Republic	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	2	4	4	7	4	5	1	1	9
El Salvador	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Grenada	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Guatemala	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Haiti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	0	0	0	0
Honduras	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	2	3
Jamaica	1	5	1	2	2	2	5	3	0	4	5	1	8	8	4	4	5	3	5	3	3	2	5	3	5
Nicaragua	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Panama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	2	0	1	2
Puerto Rico	14	9	13	11	14	13	8	19	9	9	14	7	10	14	15	13	15	22	15	13	19	22	16	22	33
Saint Kitts and Nevis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saint Lucia	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saint Vincent and the Grenadines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trinidad and Tobago	1	1	2	1	0	0	0	1	1	0	0	0	0	3	1	0	0	0	0	2	2	2	6	1	3
South America	443	485	506	574	715	698	810	880	912	925	1,040	1,159	1,333	1,370	1,420	1,539	1,621	1,749	1,995	2,174	2,193	2,432	2,508	2,635	3,037
Argentina	75	82	75	95	141	122	137	134	148	140	158	184	212	209	220	236	252	205	260	260	243	321	363	292	343
Bolivia	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	2	0	0	3	1	0

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Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Brazil	234	281	303	348	397	396	451	513	554	571	618	668	757	834	829	923	944	1,055	1,215	1,289	1,311	1,455	1,529	1,623	1,888
Chile	55	59	81	65	109	102	131	143	138	150	182	216	230	245	256	272	280	299	342	401	408	425	452	501	545
Colombia	10	11	17	19	22	33	40	43	36	28	53	60	81	67	103	97	147	171	166	222	197	199	192	257	296
Ecuador	1	0	0	0	0	0	0	0	2	2	1	3	3	3	3	4	9	6	9	7	22	48	29	36	71
Guyana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paraguay	0	1	0	0	0	0	1	0	0	1	0	0	0	0	1	1	0	1	0	1	1	11	2	2	2
Peru	1	1	0	2	1	1	2	4	3	3	6	7	3	7	8	4	13	6	11	16	19	20	22	22	26
Suriname	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	1	0
Uruguay	11	18	8	11	11	14	20	16	8	16	8	19	20	32	24	22	27	23	41	36	42	56	39	65	46
Venezuela	65	53	46	48	60	50	56	63	54	55	55	69	103	54	54	53	49	70	59	62	57	59	45	35	60
Europe	13,739	13,811	14,316	14,623	15,444	15,274	15,283	15,656	16,748	17,958	17,839	18,981	20,458	21,043	21,413	23,117	24,490	25,512	26,301	26,454	25,929	25,950	26,545	27,476	30,617
EU-27 and UK ^a	10,760	10,953	11,180	11,489	12,645	11,822	11,778	12,405	12,990	13,862	14,592	15,516	16,731	16,992	17,053	18,355	19,748	20,337	20,797	20,960	20,248	20,087	20,258	20,757	23,329
UK	2,837	2,497	2,484	2,515	2,238	1,923	1,726	1,802	1,871	2,055	2,200	2,338	2,382	2,472	2,532	2,680	2,654	2,944	3,049	3,060	3,172	3,195	3,328	3,490	3,701
EU-27 ^b	8,167	8,693	8,963	9,269	10,753	10,206	10,346	10,953	11,501	12,207	12,886	13,717	14,909	15,134	15,147	16,355	17,799	18,185	18,553	18,775	18,007	17,842	17,940	18,394	20,814
Austria	226	204	178	199	251	267	239	276	311	361	398	414	497	462	486	510	605	623	637	683	730	728	743	813	925
Belgium	328	308	319	347	375	343	342	364	406	434	438	479	553	528	531	530	551	557	560	563	583	565	538	578	674
Bulgaria	109	102	116	115	103	112	78	93	95	109	106	129	129	128	139	127	169	165	177	145	147	176	164	159	234
Croatia	57	52	71	54	79	72	67	69	76	114	102	129	141	137	158	175	197	163	191	210	219	156	215	215	204
Cyprus	17	14	15	12	18	23	15	21	33	25	36	49	47	53	61	52	45	56	46	65	40	52	46	56	67
Czechia	166	200	173	191	281	259	263	309	293	299	339	490	435	436	527	492	558	634	650	731	650	614	630	633	692
Denmark	141	135	151	167	154	156	161	183	178	185	184	183	175	190	216	198	222	216	245	254	249	293	253	280	286
Estonia	18	25	16	18	18	21	23	22	30	33	30	58	40	47	47	45	42	37	56	31	40	55	41	38	53
Finland	151	132	133	161	173	147	146	181	226	165	195	257	256	253	276	303	293	340	355	367	369	344	299	314	370
France	1,624	2,042	2,178	2,271	2,598	2,391	2,524	2,619	2,754	2,836	2,979	3,129	3,330	3,444	3,522	3,713	3,939	3,956	4,042	4,025	3,955	3,884	3,788	3,855	4,142
Germany	2,086	1,969	2,187	2,090	2,469	2,063	2,036	2,210	2,251	2,365	2,497	2,608	2,832	2,830	2,808	3,156	3,372	3,573	3,611	3,743	3,740	3,699	3,763	3,880	4,297
Greece	222	247	235	230	272	253	288	318	358	360	347	383	444	412	409	391	475	456	456	465	424	428	426	460	488
Hungary	227	222	278	254	317	303	291	288	311	293	339	322	360	361	325	381	409	414	383	415	439	395	433	370	438
Ireland	80	77	116	115	124	112	101	123	124	154	180	173	192	207	195	234	193	218	207	190	178	212	202	260	310
Italy	1,087	1,191	1,170	1,273	1,413	1,568	1,518	1,665	1,738	1,883	1,990	2,102	2,237	2,352	2,206	2,464	2,706	2,787	2,864	3,036	2,822	2,889	2,928	2,946	3,504
Latvia	16	12	15	11	15	14	13	17	7	16	8	37	20	13	14	27	25	23	27	32	26	19	20	12	16
Lithuania	37	74	56	71	64	72	88	90	78	84	84	117	94	79	74	77	92	70	72	82	66	85	60	93	109
Luxembourg	1	2	5	3	2	3	1	4	6	3	6	8	13	22	30	40	33	54	65	70	62	60	77	76	79
Malta	1	0	1	0	1	1	2	1	0	3	2	8	2	4	2	1	8	5	11	6	10	12	9	3	14
Netherlands	437	426	392	354	461	395	382	479	416	515	512	498	542	546	531	521	588	578	594	580	602	559	613	671	698

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Poland	494	510	494	490	601	678	636	719	742	775	800	862	951	1,037	946	1,089	1,313	1,270	1,318	1,450	1,351	1,313	1,415	1,405	1,431
Portugal	117	124	107	130	173	213	216	212	280	291	341	306	409	476	492	590	638	591	694	611	531	563	528	520	570
Romania	139	153	133	169	190	184	251	275	251	318	334	366	577	648	669	747	783	883	785	780	728	712	714	731	973
Slovakia	60	70	56	76	73	65	75	95	69	72	86	142	136	124	125	159	153	164	151	179	193	142	127	146	200
Slovenia	62	53	68	60	107	84	106	83	95	134	125	143	144	133	152	169	185	203	194	179	169	176	203	215	227
Spain	654	778	750	919	1,135	1,084	1,104	1,205	1,320	1,337	1,563	1,651	1,767	1,804	1,857	1,933	2,135	2,220	2,296	2,135	2,012	2,055	2,064	2,156	2,759
Sweden	233	273	297	325	303	293	321	332	365	409	440	408	420	447	468	444	469	492	569	588	603	608	641	634	693
Other Europe	3,285	3,197	3,576	3,563	3,327	3,959	3,969	3,840	4,377	4,777	3,935	4,245	4,555	4,915	5,206	5,750	5,744	6,383	6,746	6,792	6,978	7,150	7,781	8,239	9,233
Other Europe, 2020 ^b	6,066	5,656	6,006	6,019	5,470	5,805	5,624	5,541	6,145	6,718	6,039	6,448	6,802	7,250	7,614	8,294	8,257	9,156	9,605	9,683	9,931	10,127	10,898	11,519	12,631
Albania	0	0	0	1	0	0	2	1	1	0	0	2	2	1	5	8	8	14	13	8	5	7	17	21	27
Andorra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Belarus	72	96	93	86	100	84	76	84	76	88	94	96	87	96	91	93	90	85	89	101	107	124	123	128	139
Bosnia and Herzegovina	1	2	2	1	7	2	2	4	2	8	10	12	11	10	19	17	17	23	31	33	29	37	36	48	73
Holy See (Vatican City)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
Iceland	3	7	5	2	3	6	5	6	7	6	4	7	14	10	21	9	12	7	16	11	23	6	13	13	12
Kosovo	0	0	0	0	0	0	0	0	0	0	0	0	8	5	13	11	11	21	20	15	15	26	26	35	34
Liechtenstein	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Moldova	15	10	12	6	6	8	4	6	6	10	8	7	9	13	12	20	39	31	33	28	19	24	18	25	24
Monaco	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	1	0	0	1	1	0
Montenegro ^c	0	0	0	0	0	0	0	0	0	0	0	6	2	11	12	26	24	27	21	32	22	27	25	21	23
North Macedonia	6	5	2	5	4	7	12	8	5	5	7	10	11	11	10	21	18	10	20	24	29	29	19	27	26
Norway	120	99	146	137	124	142	136	146	160	170	196	229	239	275	250	282	327	391	401	335	372	329	347	375	424
Russia	2,404	2,298	2,385	2,512	2,164	2,681	2,773	2,628	2,941	3,141	2,097	2,205	2,398	2,515	2,688	2,717	2,613	2,724	3,084	3,443	3,508	3,632	4,129	4,202	4,541
San Marino	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	1
Serbia ^c	0	0	0	0	0	0	0	0	0	0	0	242	234	279	311	381	371	356	355	325	314	306	326	329	356
Serbia and Montenegro ^d	62	71	85	82	68	82	102	92	115	130	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Switzerland	237	239	263	262	308	263	302	330	340	388	421	443	481	465	458	558	609	714	767	808	786	812	791	799	915
Turkey	133	173	154	141	208	195	239	268	408	444	568	580	643	795	903	1,088	1,119	1,501	1,401	1,241	1,332	1,331	1,491	1,743	2,193
Ukraine	261	241	454	363	369	526	358	305	366	431	422	465	480	491	503	605	594	590	618	537	548	624	573	632	646
Middle East	793	824	794	856	887	971	1,002	1,110	1,272	1,390	1,631	1,687	1,931	2,034	2,335	3,082	3,533	3,883	4,406	4,038	4,180	4,578	5,226	5,929	7,433
Armenia	19	10	14	11	11	10	26	17	31	21	25	28	25	55	59	67	54	63	50	64	58	54	74	79	68

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Azerbaijan	13	15	17	15	14	19	22	17	20	23	34	36	44	60	77	70	73	75	87	113	123	148	165	142	205
Bahrain	8	4	6	6	8	6	3	4	4	8	6	5	10	2	16	5	14	8	7	6	4	4	6	25	22
Gaza Strip ^e	0	0	0	1	0	0	2	2	0	5	3	2	3	3	2	6	4	4	4	2	2	8	9	7	24
Georgia	56	72	62	60	87	69	77	78	105	101	104	85	132	136	75	192	178	219	153	178	236	170	223	229	216
Iran	37	55	77	96	102	121	140	168	260	388	534	607	656	775	912	1,354	1,522	1,591	1,794	1,599	1,700	2,047	2,224	2,356	2,705
Iraq	3	2	0	1	2	4	1	2	2	4	10	10	17	4	17	16	38	52	58	49	60	72	96	185	323
Israel	500	454	440	496	463	517	466	503	510	481	540	570	586	560	584	578	591	603	707	586	642	651	662	681	727
Jordan	11	24	9	14	22	20	42	40	65	72	65	77	103	82	93	124	160	134	128	100	120	149	197	262	312
Kuwait	48	52	40	38	47	50	41	38	33	33	34	29	40	31	43	39	35	59	67	55	72	76	80	87	88
Lebanon	9	10	12	8	10	16	11	22	15	16	23	21	23	27	25	32	43	51	49	54	44	50	79	97	119
Oman	8	11	7	17	17	18	26	30	39	31	34	31	27	43	51	28	30	29	43	44	38	46	48	67	77
Qatar	1	1	3	0	0	1	4	4	7	4	6	16	20	24	18	39	26	30	53	34	34	46	42	46	57
Saudi Arabia	67	101	96	82	79	100	103	139	137	157	163	152	209	205	346	513	752	1,021	1,250	1,124	1,022	1,035	1,092	1,438	2,227
Syria	2	2	4	0	4	1	6	5	0	3	5	3	8	2	2	5	4	7	4	4	5	5	7	5	13
United Arab Emirates	13	9	7	8	21	17	35	49	57	53	52	40	46	48	47	59	81	67	92	124	119	140	336	399	465
West Bank ^e	0	3	2	5	6	4	6	5	7	8	7	4	4	3	1	2	2	5	5	5	1	8	22	15	23
Yemen	1	2	1	4	0	5	2	1	2	3	3	2	10	5	6	15	9	14	20	10	9	20	24	47	127
Africa	288	320	321	449	490	587	613	736	735	819	795	862	1,089	1,113	1,215	1,410	1,527	1,738	1,954	1,867	2,073	2,187	2,528	2,916	4,180
Algeria	20	11	18	27	36	53	69	67	68	112	123	119	160	156	212	231	240	271	320	344	394	429	495	516	729
Angola	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	3	1	0	1
Benin	1	2	2	2	4	1	1	4	2	1	2	4	2	6	7	8	2	14	3	7	8	9	14	20	23
Botswana	2	1	2	5	10	8	8	5	7	6	7	3	11	8	10	13	17	21	27	23	18	16	12	29	30
Burkina Faso	2	1	0	0	2	0	2	1	0	5	2	1	1	9	6	9	16	18	11	7	14	15	14	30	19
Burundi	0	2	0	0	0	2	0	0	1	2	0	0	0	0	0	2	0	0	1	0	0	0	0	1	4
Cabo Verde	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	2	0	0	5	1	6	3
Cameroon	3	1	3	2	2	5	5	8	12	13	9	14	13	15	27	26	26	34	31	26	28	52	49	55	61
Central African Republic	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	1	2	0	0	4	2	1
Chad	0	0	0	1	2	1	0	1	0	0	2	0	0	2	0	0	0	0	0	0	1	2	1	3	1
Comoros	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	1
Congo, Democratic Republic of the	1	0	0	0	0	0	0	0	0	0	1	2	0	1	0	0	0	0	1	0	0	1	0	1	1
Congo, Republic of the	0	0	1	0	0	0	0	1	1	0	0	1	4	0	1	1	0	2	0	0	3	2	5	5	5

Table SPBS-27

S&E articles in mathematics and statistics, whole count, by region, country, or economy: 1996–2020

(Number)

Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Côte d'Ivoire	1	4	3	4	2	5	0	4	1	2	3	4	21	11	12	11	9	11	10	8	5	14	9	14	11
Djibouti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Egypt	67	64	55	83	101	118	142	234	244	192	168	168	237	238	244	264	337	400	410	355	414	382	463	543	843
Equatorial Guinea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eritrea	0	0	1	1	0	0	0	0	0	2	1	0	0	0	3	0	0	0	0	0	1	2	2	4	2
Eswatini	2	1	1	1	1	3	2	1	3	3	1	0	1	2	7	3	4	4	2	1	0	3	4	14	6
Ethiopia	1	0	2	3	1	2	0	2	0	5	1	6	7	12	10	15	10	13	16	15	13	32	33	47	118
Gabon	0	1	2	0	1	2	1	1	2	1	0	1	1	4	1	3	4	2	1	3	5	4	2	5	5
Gambia, The	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4	0	0	0	1	0	0	0
Ghana	0	0	0	0	0	0	0	0	0	2	1	1	2	1	2	4	7	4	10	9	13	18	30	26	49
Guinea	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	0	0	4	1	1	0	2
Guinea-Bissau	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kenya	3	0	3	4	4	6	3	3	1	0	0	1	3	3	0	5	4	8	6	6	7	6	17	30	45
Lesotho	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	1	1	1	2	0	0	0	0	0	0
Liberia	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0
Libya	1	3	2	5	2	0	1	3	1	3	2	2	6	4	4	3	8	3	7	14	8	3	12	21	11
Madagascar	2	0	1	0	0	0	0	1	2	3	1	2	6	2	0	2	2	2	2	1	3	1	2	4	5
Malawi	0	2	1	0	0	0	0	0	1	0	1	0	0	2	0	0	0	1	1	4	2	3	4	1	3
Mali	0	0	0	0	0	0	0	2	0	0	0	1	0	3	3	1	0	3	2	4	2	2	1	8	7
Mauritania	0	1	1	1	2	2	2	2	5	5	6	4	0	0	1	1	1	1	1	0	2	1	1	4	6
Mauritius	7	5	2	0	4	6	5	2	0	2	5	1	7	9	6	2	9	6	3	3	8	8	7	15	9
Morocco	44	63	55	94	101	127	116	141	137	152	145	133	173	164	186	203	178	203	232	261	297	276	396	418	776
Mozambique	0	1	0	0	2	0	2	1	2	1	2	0	1	0	0	0	1	1	3	2	3	4	5	5	7
Namibia	0	1	1	0	1	0	0	1	0	1	0	0	0	0	0	2	2	4	3	5	4	3	4	4	4
Niger	0	1	0	0	0	0	0	1	0	1	1	2	3	0	1	0	1	2	4	2	4	2	6	3	8
Nigeria	14	21	12	24	22	20	22	19	15	23	20	22	39	41	42	72	61	55	90	75	86	108	142	185	271
Rwanda	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	4	4	0	5	4	3	6
São Tomé and Príncipe	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Senegal	0	3	2	0	1	4	2	7	6	8	9	9	12	9	10	20	14	25	26	31	37	33	37	42	61
Seychelles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sierra Leone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	1	0	0
Somalia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
South Africa	105	103	106	133	118	142	138	135	136	156	175	206	214	235	213	279	322	397	501	414	409	430	456	493	634
South Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

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S&E articles in mathematics and statistics, whole count, by region, country, or economy: 1996–2020

(Number)

Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Sudan	1	1	1	1	0	0	0	0	1	1	1	0	1	1	3	1	5	9	6	4	6	6	16	15	29
Tanzania	0	0	0	3	1	2	3	1	0	0	1	2	1	5	2	2	1	4	3	6	7	10	8	18	29
Togo	0	0	0	0	1	0	0	2	2	0	0	1	2	1	0	3	0	2	1	3	0	0	1	4	4
Tunisia	9	25	38	47	75	74	92	93	90	123	122	157	175	186	227	252	275	263	269	289	326	374	366	455	511
Uganda	0	0	1	1	0	3	2	0	0	3	0	4	3	1	4	0	3	5	3	2	9	11	11	12	21
Zambia	0	2	0	1	1	1	0	0	0	0	0	1	0	0	1	2	0	0	1	2	3	4	1	7	4
Zimbabwe	1	5	8	9	3	4	2	1	2	4	1	4	6	5	2	7	3	3	4	6	6	10	6	9	13
Asia	3,833	4,131	4,280	4,520	4,852	5,340	5,426	5,986	6,569	7,110	8,303	9,501	10,912	12,871	12,860	14,358	16,405	20,339	21,817	19,648	18,768	21,101	22,037	24,848	30,754
Afghanistan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	37	23	30	33	31
Bangladesh	7	5	7	5	9	7	16	10	10	10	6	8	17	21	24	30	27	31	42	30	36	84	30	65	84
Bhutan	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0
Brunei	0	1	1	3	7	5	7	6	5	4	2	7	12	5	2	7	6	8	8	5	6	5	3	3	4
Burma	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	0	2	1	1	0	0	1	3	1	1
Cambodia	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	1	2	3	4	0
China	1,363	1,451	1,655	1,763	1,861	2,214	2,218	2,549	3,131	3,386	4,243	5,049	5,907	7,499	7,266	7,934	9,404	12,543	13,568	11,734	11,077	11,873	13,147	14,428	17,898
India	522	548	448	501	533	524	602	620	619	727	825	967	1,139	1,249	1,335	1,624	1,724	1,973	2,259	2,374	2,373	3,489	3,234	4,041	4,893
Indonesia	1	1	4	3	7	6	9	8	11	9	12	11	11	23	26	19	27	50	38	47	48	79	99	115	263
Japan	1,181	1,214	1,217	1,282	1,403	1,478	1,400	1,549	1,572	1,515	1,565	1,654	1,709	1,772	1,800	1,876	2,010	2,095	2,167	2,095	1,977	2,184	2,128	2,144	2,453
Kazakhstan	9	11	16	17	13	21	15	31	36	23	23	27	22	31	44	48	55	65	93	125	121	196	150	161	185
Kyrgyzstan	0	2	2	0	1	3	0	0	5	0	4	3	3	3	2	2	2	2	4	2	9	18	14	29	31
Laos	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	1	0	0	1	1
Malaysia	14	19	26	27	24	26	24	31	24	40	64	69	115	154	196	266	348	481	487	342	315	288	281	500	597
Maldives	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	1
Mongolia	0	0	1	2	0	3	1	4	1	3	0	0	2	0	4	2	7	8	12	9	10	8	10	11	10
Nepal	0	3	0	1	1	0	1	1	1	2	2	2	3	1	3	2	0	2	4	4	3	3	3	4	9
North Korea	0	0	0	0	0	0	0	0	4	3	1	5	1	3	2	3	2	3	4	10	7	13	16	25	39
Pakistan	27	15	11	9	9	15	18	18	32	48	95	120	177	254	270	362	383	402	523	467	485	560	689	967	1,442
Papua New Guinea	0	0	2	1	0	0	0	1	2	1	1	1	1	0	0	1	0	2	5	1	0	4	2	2	0
Philippines	1	8	5	7	8	5	11	9	4	8	8	9	6	10	9	14	14	10	25	41	50	56	44	71	89
Singapore	136	149	162	176	177	209	218	230	198	196	213	232	234	252	258	259	261	281	330	298	277	250	311	287	341
South Korea	251	360	428	405	458	507	580	655	611	716	797	888	1,022	1,033	1,066	1,195	1,412	1,605	1,541	1,503	1,416	1,476	1,477	1,574	1,892
Sri Lanka	1	2	5	3	3	1	0	2	1	9	9	6	7	10	4	7	7	7	9	9	17	10	17	22	27
Taiwan	312	334	333	366	399	366	375	390	449	506	602	637	753	840	807	867	962	1,068	1,005	867	717	686	702	831	1,231
Tajikistan	9	16	9	10	6	5	12	9	12	21	8	5	4	6	10	9	8	14	11	9	10	14	6	14	14
Thailand	5	4	9	15	18	16	24	34	26	51	70	75	80	123	148	234	237	253	284	255	274	283	339	462	585

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S&E articles in mathematics and statistics, whole count, by region, country, or economy: 1996–2020

(Number)

Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Timor-Leste	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Turkmenistan	1	4	1	1	1	1	0	3	3	3	4	2	2	3	5	9	19	9	13	6	2	4	1	0	4
Uzbekistan	27	14	25	18	26	21	29	19	31	29	36	36	31	46	45	53	56	79	94	73	63	75	90	101	182
Vietnam	45	50	37	42	40	62	52	59	63	67	75	71	138	143	171	215	222	259	312	305	369	447	464	625	1,072
Australia and Oceania	714	752	717	750	776	737	703	710	862	860	863	894	1,098	1,031	1,069	1,116	1,183	1,189	1,397	1,284	1,282	1,246	1,327	1,365	1,572
Australia	624	646	599	647	683	624	572	607	740	728	714	757	936	873	888	941	1,006	987	1,205	1,110	1,110	1,075	1,162	1,201	1,405
Cook Islands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fiji	3	1	2	2	1	0	3	3	2	1	3	0	2	1	2	3	1	2	1	5	3	1	1	4	3
Kiribati	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Marshall Islands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Micronesia, Federated States of	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nauru	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Zealand	101	117	128	116	109	123	136	119	134	142	163	153	177	173	193	204	199	219	230	193	189	182	178	190	186
Niue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palau	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Samoa	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solomon Islands	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Tonga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuvalu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanuatu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Unassigned	322	288	300	324	270	470	132	235	769	776	533	540	370	196	158	171	84	99	136	115	75	109	123	161	341

EU = European Union; UK = United Kingdom.

^a The UK was a part of the EU for data purposes from 1973 to 2019.^b Beginning in 2020, the UK was no longer a member of the EU.^c Beginning in 2006, Serbia and Montenegro represented individual countries.^d Serbia and Montenegro represented a single country for data purposes from 1992 to 2006.^e West Bank and Gaza Strip are separate entities in this list but are grouped in the World Bank Lending Groups classification list. Here, the economic status of the group is applied to both individual regions.

Note(s):

Article counts refer to publications from selected journals and conference papers 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 author(s) listed in the article. Articles are credited on a whole count basis. In whole counting, each region, country, or economy with a collaborating author on an article is credited with one count. The sum of the whole count for regions, countries, or economies does not add to the world total because of multiple counts of coauthored publications. Some publications have incomplete address information for coauthored publications in the Scopus database. The unassigned category count is the sum of whole counts for publications that cannot be assigned to a region, country, or economy.

Source(s):

National Center for Science and Engineering Statistics; Science-Metrix; Elsevier, Scopus abstract and citation database, accessed May 2021.

Science and Engineering Indicators