

Table SPBS-25

S&E articles in health sciences, 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	312,745	323,072	319,828	322,575	328,895	333,141	342,029	355,238	377,920	406,530	426,917	440,107	455,670	472,935	488,307	514,546	538,477	549,945	571,711	581,211	597,287	598,492	615,819	633,746	737,371
North America	122,594	122,414	118,576	120,266	121,104	121,671	124,643	129,547	137,687	146,434	152,609	155,852	160,249	163,701	168,897	176,643	182,226	184,696	190,274	195,582	199,385	201,836	207,215	208,475	236,282
Canada	11,637	11,896	11,738	12,167	12,372	12,272	12,515	13,896	15,007	16,541	17,678	18,598	19,931	20,997	21,697	22,619	24,042	24,912	25,861	26,770	27,457	28,770	30,451	31,088	34,810
Greenland	2	7	9	4	2	4	6	9	18	11	8	5	7	11	13	8	19	24	21	18	23	20	31	34	25
Mexico	1,397	1,563	1,580	1,601	1,481	1,524	1,778	1,837	2,006	2,242	2,586	2,673	2,781	2,879	2,936	2,952	3,205	3,370	3,817	3,996	4,255	4,129	4,491	4,872	6,318
United States	111,434	110,873	107,182	108,530	109,399	110,014	112,655	116,814	124,112	131,497	136,485	139,081	142,543	145,195	149,941	156,905	161,284	163,333	167,970	172,878	176,195	178,079	182,106	183,097	207,707
Central America and Caribbean	688	809	900	1,006	975	1,096	1,060	870	1,000	1,079	1,447	1,496	1,528	1,871	1,759	1,890	1,938	1,948	1,954	2,000	1,895	2,103	2,130	2,241	2,706
Antigua and Barbuda	0	3	1	1	0	1	2	3	1	3	2	7	6	5	3	1	1	9	2	4	8	12	12	10	12
Bahamas, The	1	0	1	0	0	3	4	2	1	5	5	8	3	10	3	10	7	12	10	12	9	9	10	16	12
Barbados	15	10	11	9	12	18	10	21	31	22	38	33	25	25	27	20	33	31	37	43	42	45	38	44	62
Belize	4	2	2	2	2	0	3	3	1	3	3	0	2	4	7	7	5	7	11	10	4	5	9	11	15
Costa Rica	33	34	34	33	36	43	53	66	66	70	68	82	97	109	102	112	91	121	144	131	164	179	197	212	256
Cuba	295	430	477	598	584	654	614	342	409	490	746	752	653	942	850	917	938	890	875	874	723	722	698	718	853
Dominica	1	1	3	0	0	4	2	3	3	2	5	2	1	1	6	9	11	18	12	14	18	21	19	15	5
Dominican Republic	20	10	11	15	18	12	8	11	18	13	27	32	30	23	21	39	30	53	40	55	59	69	76	98	124
El Salvador	4	3	1	5	5	6	10	8	9	9	15	14	10	16	15	25	33	19	32	51	42	42	31	30	43
Grenada	5	2	2	5	4	1	2	5	7	9	8	35	38	26	32	44	63	64	68	59	72	130	128	118	143
Guatemala	23	17	29	33	12	17	23	27	27	48	35	38	52	56	40	63	79	88	86	132	107	115	129	129	196
Haiti	4	4	9	2	8	3	8	6	10	20	21	10	20	13	22	23	28	41	53	69	49	78	58	66	71
Honduras	5	10	12	12	3	5	9	11	16	15	14	16	20	32	28	24	33	33	26	45	33	49	59	51	76
Jamaica	70	49	65	77	80	103	82	75	112	85	91	113	120	126	130	130	164	151	121	122	109	135	173	158	246
Nicaragua	14	17	12	7	10	6	7	9	13	16	28	18	22	31	29	37	39	39	33	36	46	51	43	52	49
Panama	19	10	18	13	9	12	14	12	29	19	19	24	40	39	33	59	54	78	69	81	74	98	89	117	129
Puerto Rico	151	186	178	161	147	157	155	223	233	209	289	266	355	351	361	334	309	301	301	310	328	343	345	350	410
Saint Kitts and Nevis	0	1	1	2	0	0	1	0	1	4	4	5	8	4	2	10	11	11	25	27	35	40	47	48	41
Saint Lucia	2	0	1	0	1	0	1	0	0	1	1	2	2	2	4	3	0	3	2	9	8	6	7	9	8
Saint Vincent and the Grenadines	2	0	0	0	2	0	0	1	0	0	0	0	0	2	1	1	2	3	2	3	6	11	2	16	21
Trinidad and Tobago	30	34	42	42	54	61	67	59	54	66	70	87	82	116	101	119	97	85	103	80	89	91	124	127	133
South America	5,014	5,515	5,780	6,171	6,399	6,817	7,773	8,503	9,652	10,742	13,531	15,085	17,144	18,647	20,000	21,677	23,554	23,880	24,841	25,631	26,705	27,486	29,537	29,246	34,797
Argentina	934	1,077	1,067	1,199	1,127	1,163	1,217	1,206	1,280	1,342	1,508	1,550	1,644	1,866	2,040	2,149	2,175	2,442	2,400	2,447	2,531	2,486	2,699	2,746	3,310
Bolivia	15	29	30	45	14	21	24	22	24	27	37	37	46	43	45	46	52	56	59	67	63	53	71	75	98
Brazil	3,072	3,352	3,683	3,922	4,235	4,566	5,282	5,848	6,874	7,704	10,001	11,371	12,825	13,985	15,064	16,459	17,954	17,795	18,339	18,758	19,274	19,797	21,089	20,707	24,285
Chile	535	568	517	511	547	539	616	683	699	815	944	1,034	1,215	1,214	1,280	1,385	1,509	1,671	1,976	2,000	2,189	2,359	2,692	2,758	3,424
Colombia	149	152	143	169	162	197	271	290	342	425	535	601	848	927	996	1,150	1,316	1,526	1,729	1,882	2,201	2,388	2,592	2,612	3,388
Ecuador	37	71	80	46	44	34	40	68	62	74	79	80	89	112	107	108	143	155	180	273	358	512	472	569	666
Guyana	1	4	2	10	5	3	4	5	4	3	9	8	1	3	10	4	11	11	5	16	11	12	18	14	22

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(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
Paraguay	10	9	16	13	7	14	8	20	20	14	15	27	33	37	47	38	51	55	44	83	89	92	78	106	156
Peru	64	74	43	69	66	83	92	120	142	158	214	193	253	327	355	382	414	417	496	620	680	728	831	903	1,252
Suriname	1	0	0	4	2	4	6	2	6	3	3	4	5	4	4	3	8	13	7	10	24	21	26	18	19
Uruguay	72	89	89	79	95	83	106	102	109	130	157	139	168	146	166	196	192	209	285	248	308	291	368	337	406
Venezuela	195	215	214	225	232	233	245	316	292	331	364	398	503	517	502	464	440	423	400	408	406	342	348	318	355
Europe	137,778	145,535	144,870	144,370	147,192	148,742	150,621	156,931	164,830	175,926	183,042	188,292	191,442	197,555	200,911	208,221	216,259	220,877	225,683	228,554	234,070	232,163	236,109	241,081	271,329
EU-27 and UK ^a	125,919	132,970	132,313	131,999	134,432	135,337	135,909	140,617	147,608	156,925	163,488	168,047	170,727	175,571	178,401	184,239	190,079	193,741	197,596	199,013	202,552	201,898	204,674	206,672	231,711
UK	28,580	29,751	30,006	30,002	31,941	30,617	30,403	31,502	33,203	35,045	36,818	38,572	39,018	40,279	39,986	41,640	44,019	45,203	45,607	47,569	48,454	48,872	50,823	52,000	58,507
EU-27 ^b	99,763	105,756	105,090	104,881	105,492	107,625	108,806	113,207	119,027	126,983	132,287	135,728	138,655	142,761	146,422	151,525	155,997	159,423	163,800	164,647	168,331	168,329	169,930	171,250	192,487
Austria	3,042	3,208	3,196	3,222	3,241	3,418	3,591	3,722	3,890	4,063	4,035	4,235	4,250	4,417	4,434	4,886	5,059	5,219	5,503	5,744	5,722	5,798	5,938	6,132	7,288
Belgium	4,104	4,164	4,495	4,375	4,354	4,363	4,395	4,798	4,915	5,331	5,615	5,800	6,150	6,456	6,627	6,911	7,340	7,584	8,170	8,328	8,725	8,698	9,132	9,004	10,589
Bulgaria	513	462	579	664	508	540	519	542	577	611	563	611	566	575	586	587	644	673	676	747	728	788	826	865	1,111
Croatia	633	625	636	619	631	732	886	1,003	1,117	1,120	1,208	1,250	1,301	1,505	1,528	1,681	1,703	1,689	1,666	1,583	1,556	1,652	1,794	1,779	1,884
Cyprus	11	24	27	25	27	24	38	35	51	71	62	61	93	117	158	173	223	259	290	307	378	451	476	636	834
Czechia	1,563	1,760	1,758	1,853	1,993	2,159	2,213	2,327	2,470	2,556	2,800	2,884	2,870	2,990	3,279	3,481	3,579	3,416	3,916	3,872	3,982	3,846	3,841	3,860	3,935
Denmark	3,358	3,601	3,415	3,341	3,404	3,360	3,271	3,468	3,792	4,026	4,259	4,513	4,778	4,931	5,238	5,671	6,301	6,716	7,769	7,890	8,310	8,675	8,706	8,864	9,923
Estonia	107	114	134	108	121	127	127	160	174	157	187	194	206	216	272	269	274	341	329	367	394	437	407	461	442
Finland	3,010	3,239	3,098	3,180	3,300	3,257	3,023	3,158	3,327	3,256	3,204	3,187	3,275	3,432	3,495	3,531	3,740	3,605	3,920	4,085	4,264	4,253	4,249	4,409	4,818
France	16,952	17,981	18,210	17,982	17,637	17,604	17,183	17,960	18,794	19,660	20,140	20,830	21,171	21,432	22,040	22,661	23,630	23,677	24,294	24,365	25,187	25,378	25,621	24,759	27,635
Germany	23,387	25,670	25,973	25,958	26,074	27,194	27,232	27,549	28,893	30,362	31,155	32,283	32,359	33,136	33,773	34,866	36,136	37,031	37,387	38,069	39,203	39,833	39,257	38,782	43,014
Greece	1,388	1,606	1,651	1,626	1,875	1,969	2,194	2,487	3,014	3,514	4,090	4,210	4,534	4,651	4,686	4,853	4,616	4,599	4,562	4,401	4,343	4,617	4,658	4,833	5,702
Hungary	1,259	1,537	1,501	1,554	1,620	1,695	1,665	1,693	1,888	2,168	2,148	2,173	2,232	2,117	2,204	2,266	2,242	2,197	2,429	2,293	2,389	2,406	2,402	2,459	2,633
Ireland	975	1,097	1,029	960	1,100	1,165	1,198	1,317	1,558	1,589	1,903	2,053	2,305	2,545	2,750	2,928	2,985	3,160	3,282	3,339	3,530	3,800	4,148	4,314	5,209
Italy	15,479	16,005	15,248	14,978	14,645	15,129	15,281	16,462	17,159	18,351	19,432	20,365	21,161	21,564	22,307	22,890	24,898	25,933	26,513	26,913	27,721	28,171	29,339	30,402	37,486
Latvia	30	33	29	29	29	40	45	38	39	60	73	51	92	105	118	168	166	239	182	198	242	261	247	310	341
Lithuania	49	39	42	63	70	53	350	320	348	348	347	365	315	356	328	325	361	391	418	478	532	551	585	646	754
Luxembourg	38	53	39	35	46	44	49	59	70	76	94	102	145	128	143	162	179	178	251	258	311	337	352	345	412
Malta	18	20	32	46	26	32	21	50	37	33	50	50	94	94	91	108	166	164	195	225	240	255	279	266	359
Netherlands	8,078	8,208	8,624	8,030	8,537	8,327	8,650	9,305	10,131	11,180	11,977	12,223	12,625	14,212	14,788	15,533	16,582	17,193	17,652	18,430	18,671	19,114	19,300	19,308	21,668
Poland	3,419	3,532	3,641	3,980	4,161	4,702	5,500	6,174	6,901	7,707	8,529	8,046	7,717	7,809	7,753	8,057	8,078	8,492	8,641	8,593	8,948	8,579	8,827	8,798	9,220
Portugal	625	774	795	814	740	750	832	1,032	1,158	1,258	1,459	1,499	1,842	2,061	2,329	2,886	3,072	3,447	3,759	4,154	4,304	4,557	4,837	5,319	6,099
Romania	367	422	426	349	431	456	501	593	661	699	775	849	1,085	1,311	1,478	1,533	1,417	1,654	2,162	2,178	2,091	1,779	1,875	1,925	2,170
Slovakia	647	540	569	716	739	760	657	716	762	742	817	762	855	862	932	866	929	861	993	1,028	1,152	1,039	1,054	1,105	1,170
Slovenia	232	267	256	343	365	387	396	468	421	479	518	487	605	789	815	943	921	953	903	951	1,027	1,051	1,066	1,105	1,273
Spain	8,766	9,356	9,164	9,467	9,677	9,659	9,957	10,663	11,218	12,718	13,894	14,320	15,059	15,410	16,406	16,894	17,542	17,984	18,799	19,564	20,463	20,913	21,221	22,335	26,106

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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	
Sweden	6,644	6,869	6,742	6,785	6,737	6,689	6,414	6,716	6,815	7,382	7,328	7,903	7,863	8,348	8,516	8,760	9,168	9,767	10,270	10,698	11,003	11,433	11,420	11,804	13,081	
Other Europe	13,865	14,602	14,744	14,658	14,982	15,705	17,206	19,463	21,079	23,190	24,073	25,398	26,115	27,950	28,848	31,037	34,123	35,550	37,484	39,670	42,639	42,172	44,062	47,831	55,495	
Other Europe, 2020 ^b	42,054	43,945	44,298	44,192	46,463	45,816	47,060	50,225	53,403	57,230	59,755	62,664	63,790	66,751	67,164	70,761	75,974	78,389	80,239	84,120	87,588	87,129	90,806	95,395	108,775	
Albania	11	14	11	6	2	3	12	12	11	10	19	19	23	28	39	51	61	71	97	80	97	82	91	88	99	
Andorra	0	1	3	0	0	2	0	4	2	6	5	10	2	4	4	2	1	3	5	6	9	7	7	13	13	
Belarus	60	58	48	54	64	61	89	58	71	72	108	85	100	98	77	113	102	155	149	165	177	215	269	324	326	
Bosnia and Herzegovina	26	33	36	84	60	50	84	125	185	176	242	227	272	302	326	343	315	276	282	299	339	407	386	439	412	
Holy See (Vatican City)	0	0	0	0	0	0	0	0	2	0	0	0	1	1	1	1	2	1	4	7	7	6	3	8	4	
Iceland	122	118	148	154	105	138	140	153	175	206	219	204	252	302	336	286	317	332	374	385	404	407	452	474	486	
Kosovo	0	0	0	0	0	0	0	0	0	0	0	0	48	86	80	53	67	58	73	90	102	118	114	135	125	
Liechtenstein	1	3	0	3	1	0	2	9	13	22	12	14	18	18	27	26	22	19	22	29	25	26	18	23	27	
Moldova	12	8	2	10	4	5	3	9	11	21	12	11	13	14	25	23	24	34	47	45	59	74	66	98	87	
Monaco	12	17	12	6	8	17	14	15	22	25	19	23	27	27	37	37	39	49	39	53	60	63	46	62	57	
Montenegro ^c	0	0	0	0	0	0	0	0	0	0	0	10	25	36	30	32	42	55	64	74	69	93	81	109	106	
North Macedonia	29	26	17	30	30	34	34	30	50	73	86	90	133	150	116	161	188	203	227	236	215	170	178	149	185	
Norway	2,162	2,383	2,454	2,177	2,323	2,263	2,123	2,399	2,516	2,864	2,934	3,205	3,480	3,759	3,773	3,957	4,323	4,328	4,606	4,820	5,324	5,500	5,887	6,033	6,612	
Russia	2,733	2,969	2,646	2,544	2,452	2,484	2,581	2,674	2,580	2,618	2,617	2,652	2,718	2,784	2,849	3,261	3,908	4,225	4,893	5,663	7,579	8,451	9,579	11,294	12,985	
San Marino	4	2	4	1	2	2	0	1	2	3	2	3	6	3	2	3	3	7	3	14	8	5	11	12	25	
Serbia ^c	0	0	0	0	0	0	0	0	0	0	0	1,029	1,077	1,298	1,424	1,512	1,745	1,656	1,751	1,605	1,539	1,589	1,529	1,634	1,722	
Serbia and Montenegro ^d	597	678	601	541	541	557	635	619	766	987	972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Switzerland	5,457	5,475	5,769	5,647	5,771	5,603	5,720	6,261	6,769	7,127	7,617	8,069	8,224	8,655	8,946	9,869	10,649	10,855	11,274	11,762	12,350	13,152	13,344	13,572	15,680	
Turkey	2,468	2,549	2,760	3,144	3,382	4,307	5,576	6,997	7,903	9,010	9,358	9,833	9,927	10,659	11,116	11,575	12,767	13,569	14,028	14,824	14,837	12,389	12,264	13,474	16,883	
Ukraine	252	369	331	363	332	298	312	298	266	238	252	259	241	258	234	352	325	444	614	738	904	1,133	1,502	1,838	2,083	
Middle East	5,109	5,360	5,242	5,361	5,804	5,717	6,117	6,837	7,337	8,154	9,107	10,079	11,198	12,323	13,198	15,204	16,994	18,351	20,365	21,511	23,615	24,772	27,185	29,863	37,215	
Armenia	25	22	24	26	39	31	39	29	29	37	50	41	41	57	66	68	86	78	94	96	97	115	117	135	140	
Azerbaijan	5	14	13	7	7	7	53	61	133	76	47	186	187	185	152	152	142	98	37	54	155	170	164	178	185	
Bahrain	41	25	46	43	37	39	30	67	85	96	119	102	93	125	95	104	108	155	171	154	207	192	207	222	316	
Gaza Strip ^e	1	1	2	2	7	6	9	3	8	6	7	11	14	14	14	18	16	29	33	36	25	30	49	40	49	
Georgia	16	42	21	27	24	24	32	35	49	172	139	106	101	121	99	155	120	108	154	174	226	182	198	204	254	
Iran	167	230	235	240	261	311	518	764	918	1,552	2,135	2,895	3,805	4,559	5,085	6,509	7,616	8,413	9,374	9,673	10,607	11,402	12,123	13,095	15,022	
Iraq	17	22	20	24	44	33	58	56	47	77	119	113	135	176	214	182	262	252	226	198	273	407	800	1,409	2,108	
Israel	3,347	3,458	3,253	3,391	3,769	3,668	3,726	3,894	4,051	4,050	4,180	4,312	4,070	4,158	4,119	4,267	4,364	4,391	4,607	4,889	5,180	4,953	5,193	5,458	6,348	
Jordan	111	129	157	171	189	157	202	186	228	259	324	286	357	394	433	447	448	513	525	555	604	744	967	1,047	1,582	
Kuwait	97	121	143	177	148	156	159	210	221	244	234	254	289	276	309	255	284	287	312	326	342	368	370	416	502	
Lebanon	148	168	190	220	218	247	224	290	281	305	346	376	421	428	438	445	565	609	687	698	870	964	1,062	1,158	1,623	

Table SPBS-25

S&E articles in health sciences, 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
Oman	63	46	55	61	105	110	89	125	110	108	129	147	199	198	198	253	232	295	293	312	324	281	321	341	468
Qatar	20	12	23	15	21	42	55	73	77	110	132	139	171	174	222	242	299	375	546	666	778	818	857	979	1,327
Saudi Arabia	907	895	880	802	779	703	786	855	891	822	903	912	1,047	1,172	1,437	1,848	2,167	2,432	3,088	3,405	3,695	3,892	4,359	4,796	6,980
Syria	13	11	15	31	25	23	17	30	30	44	27	42	50	52	78	85	120	122	118	131	132	129	182	174	255
United Arab Emirates	148	158	174	127	140	163	141	200	210	240	278	252	317	317	372	400	441	458	522	681	732	880	1,107	1,201	1,694
West Bank ^e	3	8	4	9	11	10	4	11	13	18	27	23	25	50	52	53	62	57	77	79	97	131	159	146	224
Yemen	5	14	13	19	16	21	14	20	26	33	29	21	37	53	59	66	87	79	79	95	110	114	112	121	160
Africa	3,899	3,960	3,930	3,884	3,914	4,216	4,240	4,736	5,176	5,826	6,627	7,106	8,070	9,333	10,376	11,544	12,386	12,910	14,834	15,558	16,744	17,227	19,025	20,214	25,426
Algeria	31	35	26	35	24	33	25	36	46	37	57	54	87	134	115	120	196	167	257	329	341	269	305	270	328
Angola	4	3	1	3	5	5	3	2	7	5	8	9	16	13	13	15	19	23	30	39	46	37	37	32	43
Benin	15	25	19	21	15	19	21	16	35	42	46	52	50	56	62	58	104	94	125	107	109	118	130	96	123
Botswana	14	10	16	11	21	25	14	26	14	29	45	36	33	43	53	69	52	70	112	78	109	98	141	149	169
Burkina Faso	35	38	64	52	36	51	58	57	58	55	92	90	108	106	108	119	159	130	182	174	198	189	195	219	189
Burundi	12	17	4	2	1	0	0	1	3	2	4	10	3	4	6	8	10	14	10	14	17	20	20	19	38
Cabo Verde	1	1	1	1	0	0	1	1	1	0	2	1	2	2	1	0	0	2	2	7	7	6	7	13	8
Cameroon	61	64	60	62	39	64	74	79	87	84	97	98	98	154	146	176	194	238	254	297	331	367	401	383	436
Central African Republic	7	12	16	11	9	6	6	6	4	6	11	5	5	8	10	7	11	9	17	13	32	20	19	21	24
Chad	4	4	2	3	0	0	8	5	11	8	12	2	8	8	2	6	7	8	17	9	15	20	19	15	19
Comoros	1	1	1	2	1	2	0	0	1	2	1	7	1	1	1	1	2	0	2	1	7	4	2	3	4
Congo, Democratic Republic of the	14	24	19	13	19	11	12	19	18	19	27	34	42	63	63	75	101	90	105	115	115	144	176	177	219
Congo, Republic of the	15	7	20	19	13	10	22	30	43	41	42	55	40	44	43	51	67	49	90	112	94	77	90	91	95
Côte d'Ivoire	54	83	81	80	52	56	67	65	81	71	82	77	96	100	91	126	130	119	137	138	145	144	135	154	161
Djibouti	4	5	5	0	1	1	2	2	2	3	4	3	6	7	6	5	10	4	7	3	10	2	2	4	7
Egypt	517	506	542	535	507	525	532	703	734	832	886	998	1,249	1,639	2,089	2,525	2,850	3,004	3,472	3,832	4,366	4,401	4,993	5,423	7,097
Equatorial Guinea	2	2	0	5	0	1	2	2	3	0	6	6	2	6	2	6	5	5	3	6	6	7	9	8	6
Eritrea	0	0	3	1	2	2	2	7	4	8	10	10	4	5	4	6	3	5	6	6	9	12	21	14	28
Eswatini	2	1	2	2	1	0	4	3	5	7	6	9	3	11	12	14	16	16	14	25	28	43	30	34	29
Ethiopia	102	87	79	100	93	92	98	108	120	118	130	158	188	199	237	271	374	456	641	633	739	977	1,158	1,398	2,356
Gabon	28	28	29	27	20	12	18	18	25	31	43	30	30	40	47	61	36	47	58	59	48	42	49	57	50
Gambia, The	42	31	36	44	37	34	28	32	35	42	44	34	42	48	52	41	43	62	74	79	84	63	71	78	101
Ghana	52	67	81	54	76	72	62	65	100	118	116	137	113	148	187	273	336	382	453	534	679	659	775	908	1,141
Guinea	10	4	3	4	2	13	11	3	8	7	17	15	19	13	15	9	17	17	34	49	60	57	43	54	55
Guinea-Bissau	6	6	3	9	2	3	8	12	15	8	6	15	11	12	5	12	16	15	23	10	16	17	14	24	22
Kenya	222	210	194	191	181	179	192	227	277	255	273	362	401	433	524	543	516	649	732	778	816	844	1,008	1,038	1,255
Lesotho	2	1	0	1	1	2	3	3	3	9	1	9	4	8	4	9	13	7	11	16	11	12	14	22	21

Table SPBS-25

S&E articles in health sciences, 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
Liberia	1	0	1	0	0	0	2	1	1	2	1	2	1	1	5	12	12	9	13	30	40	40	54	56	40
Libya	18	23	23	23	29	21	13	21	9	12	29	24	39	118	140	50	62	70	81	81	72	75	90	77	103
Madagascar	38	23	19	35	35	43	22	50	33	26	32	47	48	35	35	52	50	51	64	51	58	76	79	66	83
Malawi	56	37	35	42	52	50	57	55	69	75	83	118	114	123	140	141	163	185	218	229	310	330	351	350	453
Mali	27	26	47	18	11	20	29	26	27	31	61	81	65	81	84	85	97	70	75	90	92	107	98	93	98
Mauritania	3	5	4	7	6	7	6	1	0	7	5	3	3	1	4	9	5	8	5	17	14	10	17	22	22
Mauritius	4	2	10	5	4	8	2	8	13	13	10	9	11	11	7	15	21	20	34	39	26	28	27	29	50
Morocco	242	256	253	290	253	301	324	306	266	271	343	381	417	574	638	671	748	700	748	596	651	620	669	656	889
Mozambique	13	12	12	15	15	17	14	19	32	22	39	52	51	65	51	87	77	77	106	121	161	170	166	175	215
Namibia	4	8	11	5	3	1	7	11	5	7	10	14	8	7	14	25	30	37	50	59	60	42	58	64	99
Niger	16	16	25	17	12	16	9	20	11	12	27	18	21	23	22	22	30	26	28	38	35	39	46	69	57
Nigeria	350	394	357	359	455	511	578	572	706	920	1,055	1,079	1,220	1,405	1,488	1,684	1,516	1,504	1,659	1,586	1,669	1,775	1,968	1,937	2,714
Rwanda	7	5	8	2	4	2	4	5	14	7	22	22	29	36	46	57	56	118	119	137	171	161	204	204	292
São Tomé and Príncipe	2	1	0	0	2	2	3	4	2	0	1	4	0	1	3	0	0	0	1	3	2	2	0	4	3
Senegal	121	99	124	138	100	108	114	148	119	135	124	156	164	140	147	198	178	175	214	236	191	208	198	206	196
Seychelles	1	1	3	2	3	1	1	0	4	3	6	8	9	4	6	10	6	9	4	9	9	10	14	17	31
Sierra Leone	11	15	4	3	3	2	3	0	1	6	5	8	4	7	17	13	20	17	38	48	69	71	64	81	97
Somalia	0	3	1	1	1	0	1	2	1	0	3	0	2	2	5	3	4	4	8	9	6	17	12	28	47
South Africa	1,206	1,209	1,191	1,127	1,258	1,269	1,190	1,303	1,385	1,553	1,663	1,756	2,086	2,253	2,350	2,547	2,930	3,095	3,530	3,761	4,104	4,265	4,671	4,862	5,750
South Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	8	10	7	7	18	21	10	23
Sudan	42	39	52	37	34	39	41	53	75	78	72	83	98	111	119	134	149	150	169	196	244	207	199	240	337
Tanzania	107	105	79	85	101	109	105	123	153	163	241	239	274	313	341	370	408	416	532	499	524	558	599	687	786
Togo	22	20	36	33	26	20	15	17	20	17	20	24	35	37	42	38	38	52	74	71	73	66	76	66	60
Tunisia	214	244	229	254	240	339	355	487	521	654	757	791	875	917	1,016	988	969	868	962	1,005	956	965	1,020	991	1,133
Uganda	70	53	65	79	73	92	96	113	139	150	184	192	228	277	354	396	442	426	540	665	621	734	701	809	970
Zambia	38	40	39	27	31	37	29	31	31	34	68	84	90	94	110	130	130	154	171	213	215	239	253	239	305
Zimbabwe	151	161	143	154	134	97	84	79	77	85	100	81	86	67	97	89	98	99	148	137	174	188	197	230	287
Asia	46,444	48,538	49,951	51,218	53,686	54,360	58,864	64,569	71,728	80,359	84,407	88,573	95,638	102,203	109,471	119,061	129,333	137,463	148,561	153,440	161,551	164,743	172,567	184,455	227,339
Afghanistan	0	0	2	2	2	0	2	4	14	5	13	10	19	28	35	30	42	35	54	55	48	67	68	77	87
Bangladesh	118	139	150	155	153	168	148	175	185	213	268	283	330	394	480	552	666	614	806	790	812	699	723	895	1,281
Bhutan	0	0	0	0	0	0	1	0	2	0	4	1	2	2	5	15	15	15	14	19	31	33	25	39	58
Brunei	4	14	12	7	5	3	2	5	10	16	17	19	34	20	32	53	59	73	78	69	60	53	59	52	91
Burma	8	13	7	12	14	11	12	8	15	12	16	19	17	16	24	22	33	29	35	60	79	133	121	147	213
Cambodia	4	8	9	12	9	13	18	14	43	31	40	58	45	57	62	71	84	88	86	131	157	144	151	137	145
China	5,351	6,018	6,448	7,130	8,172	8,796	12,115	15,516	19,352	24,777	27,450	30,457	35,020	37,716	39,187	41,562	47,412	55,296	61,878	65,663	70,646	74,631	78,466	87,730	113,981
India	3,545	3,971	4,094	4,335	4,453	4,801	5,220	5,866	6,118	6,890	8,011	8,670	9,221	10,592	12,426	15,099	16,921	17,126	18,267	18,689	19,672	19,310	20,063	21,261	27,529

Table SPBS-25

S&E articles in health sciences, 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
Indonesia	78	91	76	96	119	89	89	138	154	201	212	189	213	268	264	292	403	440	487	639	899	1,213	1,924	2,904	4,190
Japan	31,552	31,742	32,047	31,895	32,427	31,454	31,577	31,557	32,890	32,935	32,035	31,721	30,937	31,446	32,589	34,714	34,625	33,077	34,607	33,895	34,487	33,698	34,690	33,963	37,572
Kazakhstan	4	15	11	4	7	8	13	36	29	15	31	18	24	17	21	20	38	76	130	158	206	213	251	322	371
Kyrgyzstan	4	6	5	6	1	5	2	3	4	8	8	13	8	12	15	9	22	31	26	21	44	63	66	71	103
Laos	3	4	7	5	12	10	7	13	22	20	30	35	38	19	38	39	56	60	46	77	82	65	82	102	108
Malaysia	313	318	336	359	417	380	353	441	551	635	718	747	1,063	1,038	1,297	1,655	2,082	2,475	2,590	2,774	2,983	3,072	3,430	3,544	4,416
Maldives	3	0	0	0	0	1	0	1	1	6	4	2	1	3	2	5	3	5	4	4	4	6	13	8	17
Mongolia	1	7	7	4	13	4	11	15	17	19	25	26	26	46	45	33	40	42	47	53	60	52	66	88	103
Nepal	39	44	69	64	62	82	81	204	205	240	338	352	330	367	395	425	366	435	466	471	531	616	755	846	1,298
North Korea	2	1	2	0	0	0	0	0	1	2	1	1	3	2	2	3	1	0	3	4	5	4	6	8	12
Pakistan	262	324	422	439	477	626	680	700	777	1,010	975	1,075	1,317	1,600	1,687	1,936	2,006	2,187	2,431	2,496	2,923	3,385	3,563	3,627	4,761
Papua New Guinea	72	52	40	46	37	30	31	29	22	25	35	51	38	31	39	32	49	57	51	60	44	54	54	68	67
Philippines	75	77	83	94	83	66	89	115	118	161	156	186	204	219	234	364	358	387	383	463	485	545	653	723	1,010
Singapore	648	732	753	794	904	886	970	1,105	1,350	1,414	1,546	1,555	1,756	1,841	2,006	2,233	2,417	2,720	2,829	3,180	3,398	3,537	3,711	4,011	5,045
South Korea	1,565	1,853	2,153	2,425	2,883	3,096	3,424	4,425	5,221	6,409	7,038	7,727	9,180	10,566	12,395	13,414	14,877	15,800	16,576	17,540	18,302	18,565	18,837	19,159	20,808
Sri Lanka	76	84	96	93	83	97	118	121	121	156	147	170	200	230	234	280	309	312	327	369	414	453	477	487	547
Taiwan	2,502	2,839	2,939	2,942	2,995	3,300	3,486	3,952	4,495	5,003	5,231	5,415	5,852	5,982	6,580	6,966	7,404	7,673	7,832	7,961	7,865	7,461	7,323	7,718	8,474
Tajikistan	0	3	1	1	3	1	1	1	2	1	5	3	6	7	7	5	11	12	9	9	15	16	14	25	25
Thailand	551	633	656	789	927	956	1,031	1,076	1,212	1,622	1,615	1,594	1,818	1,974	1,981	2,214	2,589	2,478	2,779	2,909	3,303	3,323	4,005	3,902	4,726
Timor-Leste	0	0	0	0	0	0	0	2	0	1	3	4	1	6	1	1	4	7	12	13	11	8	13	14	26
Turkmenistan	1	0	0	0	2	1	1	0	0	0	0	0	0	0	1	1	0	1	2	0	0	1	0	1	0
Uzbekistan	19	36	17	11	17	24	14	17	23	13	10	16	18	15	22	25	28	26	33	21	50	31	38	56	193
Vietnam	62	58	55	55	72	56	73	114	116	140	180	158	195	210	233	227	314	308	342	401	460	565	689	900	1,363
Australia and Oceania	8,624	9,019	9,241	9,799	10,026	10,336	10,547	11,037	12,278	13,018	14,359	15,344	16,330	17,468	18,458	20,234	21,508	23,400	24,947	26,455	27,468	28,279	29,667	30,490	34,588
Australia	7,461	7,697	7,902	8,412	8,570	8,970	9,120	9,584	10,605	11,199	12,465	13,331	14,243	15,266	16,152	17,679	18,874	20,759	22,287	23,679	24,772	25,398	26,716	27,513	31,154
Cook Islands	0	0	1	0	1	0	1	0	0	0	0	1	0	1	0	1	2	1	0	2	0	2	2	2	0
Fiji	5	6	8	7	17	10	10	23	17	8	28	22	13	20	22	32	27	40	39	35	48	57	46	55	61
Kiribati	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	3	1	4	1	4	4
Marshall Islands	1	5	1	0	1	2	1	3	0	5	3	3	0	3	1	2	0	1	2	1	2	2	4	0	1
Micronesia, Federated States of	1	1	2	3	2	0	0	3	1	5	0	8	2	3	15	3	2	3	2	5	12	17	12	6	15
Nauru	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3	1	2	2	2	1	0	0	1	1
New Zealand	1,256	1,394	1,420	1,518	1,553	1,468	1,556	1,636	1,914	2,084	2,160	2,354	2,426	2,647	2,756	3,047	3,230	3,295	3,377	3,552	3,496	3,770	3,863	4,015	4,612
Niue	0	0	0	0	0	0	0	0	0	2	0	3	0	1	0	0	0	0	0	0	0	1	0	1	0
Palau	1	0	0	0	2	0	2	2	1	7	4	9	3	2	2	3	0	5	0	2	3	9	3	1	2
Samoa	0	3	3	0	4	4	2	1	2	0	5	2	5	5	0	7	2	4	4	7	6	16	9	13	22
Solomon Islands	3	5	2	2	5	2	1	1	4	2	2	5	4	2	10	8	8	5	10	16	24	14	26	11	22

Table SPBS-25

S&E articles in health sciences, 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
Tonga	0	2	0	1	2	2	1	3	3	1	4	4	3	5	1	8	3	4	3	3	3	7	4	5	11
Tuvalu	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	2	1	0	2	1	1	1
Vanuatu	2	5	1	2	3	2	4	8	4	7	3	3	2	2	6	9	1	8	15	8	5	7	6	10	6
Unassigned	8,410	7,445	8,600	10,232	7,493	4,919	4,939	11,806	8,830	8,959	9,318	10,350	10,799	9,453	12,643	12,225	11,042	6,979	5,152	5,237	7,677	10,088	11,174	13,392	19,572

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