

TABLE SSA-10

S&E articles in health sciences, by region, country, or economy: 2000–18

(Number)

Region, country, or economy	Economies by income status	2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018	
		Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count
World		327762.00	327,762	331761.00	331,761	340867.00	340,867	353463.00	353,463	375487.00	375,487	404581.00	404,581	423748.00	423,748	435899.00	435,899	451859.00	451,859	469467.00	469,467	484597.00	484,597	513105.00	513,105	539464.00	539,464	553620.00	553,620	577308.00	577,308	583578.00	583,578	600045.00	600,045	598566.00	598,566	604125.00	604,125
North America		111802.18	120,561	112817.89	121,114	115228.93	124,146	116171.90	128,721	123130.45	136,521	130882.19	145,321	135348.48	150,706	136985.90	153,336	140508.80	158,035	143174.98	161,946	145994.82	166,582	152822.96	174,881	157385.30	181,336	158133.07	184,050	162856.83	190,473	164862.10	194,259	165780.18	197,529	165537.68	198,791	165653.22	200,655
Canada	High	10242.42	12,261	10175.74	12,150	10236.55	12,394	10824.28	13,801	10233.65	14,902	10824.88	16,444	13459.92	17,516	14003.46	18,400	14799.42	19,728	15388.47	20,737	15696.97	21,418	16341.75	22,396	17295.14	23,870	18039.74	25,857	18226.45	26,490	18142.31	27,116	18649.37	28,261	18649.37	29,404		
Greenland	High	2.00	2	3.00	4	1.81	6	3.82	9	16.03	18	4.02	11	2.18	8	2.39	5	1.88	7	5.90	11	6.72	13	3.74	9	8.10	19	12.33	24	5.96	18	4.55	18	8.11	22	8.12	21	12.16	31
Mexico	Upper-middle	1303.00	1,491	1338.94	1,532	1578.62	1,782	1559.83	1,830	1667.87	1,999	1894.38	2,240	2176.47	2,597	2213.40	2,652	2236.60	2,778	2325.79	2,885	2302.87	2,914	2277.28	2,942	2566.05	3,221	2659.43	3,361	3076.75	3,837	3134.74	4,002	3275.05	4,264	3053.73	4,067	3101.69	4,162
United States	High	100254.76	108,963	101300.21	109,559	103411.94	112,281	103783.98	116,090	109912.90	123,051	116274.91	130,485	119709.91	134,717	120766.64	136,788	123470.90	140,517	125454.83	143,655	127988.27	147,853	134200.20	155,334	137516.00	160,492	137948.24	162,778	141734.38	168,120	143496.36	171,761	144354.71	174,582	143826.45	175,453	143391.95	176,575
Central America and Caribbean		769.08	969	884.38	1,094	842.21	1,065	629.46	870	706.62	994	765.25	1,085	1038.26	1,439	999.67	1,492	1060.60	1,532	1364.70	1,862	1241.01	1,757	1329.40	1,887	1343.11	1,940	1334.75	1,953	1328.53	1,955	1251.95	1,999	1155.49	1,895	1216.91	2,075	1001.63	1,923
Antigua and Barbuda	High	0.00	0	1.00	1	2.00	2	1.83	3	0.50	1	1.32	3	1.27	2	5.00	7	3.68	5	2.94	5	1.92	3	0.17	1	0.13	1	2.22	9	0.54	3	1.57	4	6.37	12	3.86	12	3.85	16
Bahamas, The	High	0.00	0	0.78	3	1.56	4	1.05	2	0.50	1	1.08	5	4.33	5	3.80	8	1.00	3	4.07	10	0.64	4	6.09	10	1.97	7	7.88	12	4.61	10	4.46	9	5.09	9	2.83	10		
Barbados	High	9.08	12	11.69	18	6.02	10	9.92	19	15.91	31	12.03	22	21.94	38	19.60	33	11.46	24	12.41	25	7.79	28	9.05	22	12.37	35	13.76	29	16.89	38	18.79	44	18.97	42	17.11	44	10.83	35
Belize	Upper-middle	0.45	2	0.00	0	0.82	3	1.68	3	0.25	1	0.59	3	0.78	3	0.00	0	0.33	1	2.20	4	2.08	7	2.26	7	2.43	5	3.04	11	2.64	10	0.60	5	1.77	5	1.98	10		
Costa Rica	Upper-middle	21.31	36	23.09	44	25.71	53	28.63	66	25.51	66	30.27	71	28.44	68	31.80	82	43.68	97	44.79	110	40.54	102	43.78	113	30.15	89	41.96	119	55.06	141	42.42	130	60.16	163	71.60	173	57.60	188
Cuba	Upper-middle	509.80	582	562.79	653	532.03	615	295.55	341	341.64	409	408.63	492	619.02	741	574.13	752	552.66	655	825.28	934	747.99	842	813.84	914	822.23	930	793.29	895	766.01	871	736.54	855	610.99	712	592.08	713	425.29	554
Dominica	Upper-middle	0.00	0	2.74	4	2.00	2	2.08	3	1.33	3	0.42	2	0.92	5	0.31	2	0.00	0	0.06	1	3.33	6	1.99	9	3.39	11	6.00	18	5.10	12	4.72	15	5.48	19	9.46	22	9.21	21
Dominican Republic	Upper-middle	6.63	18	4.96	11	3.51	7	6.67	12	6.48	18	3.13	13	10.89	27	12.38	32	8.76	29	7.20	23	5.67	20	7.23	38	10.58	30	19.12	54	19.58	41	14.89	56	14.68	57	21.88	70	19.30	68
El Salvador	Lower-middle	1.81	5	2.78	6	7.41	10	3.51	8	3.38	9	3.90	9	6.22	15	5.35	14	5.49	10	6.00	17	4.94	15	7.39	25	10.07	32	5.81	19	10.80	32	11.10	53	11.34	40	13.67	40	7.21	31
Grenada	Upper-middle	1.04	4	0.25	1	0.26	2	2.51	5	2.14	7	2.77	9	2.20	8	9.68	35	9.34	37	9.23	27	11.65	32	11.29	44	26.97	70	19.68	65	26.97	70	34.68	125	25.67	73	34.68	125	25.67	126
Guatemala	Upper-middle	5.46	11	6.76	17	9.76	23	13.18	27	11.36	27	23.06	48	16.47	35	15.74	39	18.13	51	25.86	56	14.00	40	20.01	62	24.45	78	33.56	89	27.26	88	36.90	129	30.82	104	34.27	112	41.54	123
Haiti	Low	3.26	8	2.22	3	3.93	8	3.65	7	4.70	10	6.74	20	8.58	21	4.57	10	5.12	18	5.54	13	8.94	22	5.84	22	10.13	28	15.40	42	20.64	55	23.16	66	17.20	50	32.61	76	18.39	55
Honduras	Lower-middle	1.50	3	1.41	5	3.32	10	5.18	12	6.98	16	7.09	16	3.35	15	6.55	16	7.32	20	6.77	34	10.10	28	5.16	23	9.86	33	7.77	33	14.22	46	11.65	33	19.26	50	19.61	56		
Jamaica	Upper-middle	60.24	77	90.20	103	70.61	82	58.44	75	88.46	112	66.12	86	71.78	92	83.57	110	98.10	119	97.30	126	91.26	136	100.52	133	131.51	166	107.64	148	87.79	121	63.13	126	61.01	108	78.03	131	73.79	131
Nicaragua	Lower-middle	3.56	10	2.78	6	3.80	7	2.35	10	4.85	13	7.15	16	10.84	28	7.08	18	6.71	22	8.92	29	10.99	27	14.89	38	12.19	39	13.16	34	8.74	37	14.41	44	15.64	48	11.27	42		
Panama	High	5.83	9	10.22	12	9.21	14	4.88	12	11.97	29	10.10	19	10.84	19	15.44	24	19.74	40	22.10	39	16.70	35	29.25	59	22.06	54	34.84	80	29.83	68	36.33	83	20.35	74	31.44	98	26.00	88
Puerto Rico	High	95.66	147	108.26	157	111.04	159	145.61	223	141.06	227	129.72	209	177.43	285	145.18	265	213.73	361	197.04	347	197.07	357	170.22	331	155.30	312	150.66	303	157.22	303	156.06	318	159.41	339	162.00	337		
Saint Kitts and Nevis	High	0.00	0	0.00	0	0.14	1	0.00	0	0.23	1	1.71	4	0.51	4	0.87	5	3.03	8	0.68	4	1.50	3	2.94	10	4.45	13	6.79	10	7.04	23	10.36	29	13.47	37	16.29	41	14.56	46
Saint Lucia	Upper-middle	0.50	1	0.00	0	0.17	1	0.00	0	0.00	0	0.25	1	0.50	1	0.58	2	1.17	2	2.00	2	2.33	3	2.00	2	0.05	1	1.50	3	0.13	3	1.63	9	2.77	8	1.93	7	2.61	8
Saint Vincent and the Grenadines	Upper-middle	0.42	2	0.00	0	0.00	0	0.83	1	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	1.00	2	2.00	2	0.05	1	0.67	2	1.50	3	0.64	3	2.00	6	0.46	3	1.89	9	0.31	6
Trinidad and Tobago	High	42.54	54	52.44	61	48.91	67	41.91	58	39.36	54	49.17	67	41.96	69	58.03	86	51.14	82	83.33	116	61.07	104	76.93	120	62.39	99	49.16	85	68.55	103	44.14	84	53.39	92	53.38	87	67.80	121
South America		5594.60	6,499	6057.82	6,899	6930.02	7,862	7316.14	8,580	8394.09	9,685	9345.58	10,800	11854.22	13,527	13146.03	15,092	14987.52	17,171	16248.46	18,629	17373.47	19,992	18882.96	21,748	20343.05	23,577	20436.54											

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		Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count		
Ecuador	Upper-middle	30.68	44	22.91	34	27.48	40	42.23	67	35.89	63	44.94	76	42.79	78	46.56	81	43.84	90	51.01	112	53.36	106	45.25	106	74.63	147	65.01	152	85.99	180	118.14	273	179.55	350	286.97	506	218.73	418
Guyana	Upper-middle	3.54	5	1.47	3	1.06	5	3.03	5	1.77	4	0.75	3	3.73	9	3.05	8	0.43	1	2.33	3	4.77	10	1.72	5	3.78	11	5.59	16	3.53	5	5.47	16	4.49	10	7.42	12	5.04	18
Paraguay	Upper-middle	2.21	7	6.94	13	5.18	8	7.69	20	7.57	21	8.41	15	4.42	15	14.22	28	11.57	34	13.63	37	16.72	47	20.81	38	22.65	51	19.18	55	16.15	46	27.16	82	35.91	87	35.13	94	22.55	78
Peru	Upper-middle	40.21	70	57.37	84	67.26	93	79.63	120	80.15	138	92.14	158	123.91	212	112.70	193	132.73	252	194.13	322	200.86	346	199.06	384	217.78	407	227.21	421	257.86	495	340.36	621	373.31	678	388.74	706	446.82	796
Suriname	Upper-middle	1.14	2	1.11	4	2.18	6	1.89	2	1.48	6	0.79	3	1.13	4	1.13	4	1.63	6	0.87	4	2.33	4	0.91	3	3.42	8	6.11	7	3.89	10	5.73	14	9.32	24	7.81	20	8.88	24
Uruguay	High	59.60	94	58.08	84	78.25	108	70.18	102	73.73	111	80.80	131	95.81	157	77.28	138	96.06	169	76.60	144	94.12	167	106.78	194	89.80	188	108.96	208	132.56	286	115.64	248	153.80	306	124.49	289	165.68	361
Venezuela	Upper-middle	184.80	229	183.06	231	190.75	243	224.27	305	219.25	285	246.51	328	269.07	362	294.12	392	389.26	503	394.02	513	382.52	496	340.89	462	337.72	438	302.19	423	285.14	398	275.66	409	270.96	404	214.29	344	182.86	331
Europe		138265.26	146,358	140578.74	147,722	141742.20	149,667	144516.58	155,584	151813.94	163,252	162290.81	174,608	168315.47	181,433	171943.93	186,292	173774.87	189,277	179078.17	195,303	180347.31	198,098	187759.83	206,576	195584.23	215,742	199709.35	220,938	203908.32	226,278	203984.84	227,823	207800.65	233,309	203114.86	230,327	201037.32	230,043
EU		125570.36	133,806	127119.35	134,487	127036.42	135,172	128431.43	139,554	134625.64	146,339	143181.62	155,880	148643.90	162,193	151651.44	166,463	152999.93	169,007	156995.67	173,826	157757.83	176,046	163326.97	182,873	168677.07	189,738	171447.35	193,778	174458.45	198,068	173199.47	198,250	174992.91	201,832	171456.08	200,076	168280.28	198,779
Austria	High	2650.64	3,227	2792.72	3,400	2978.59	3,581	2882.15	3,700	2917.41	3,905	2966.60	4,040	2955.85	4,016	2935.95	4,222	2853.06	4,221	2951.28	4,380	2869.92	4,401	3136.79	4,876	3083.42	5,038	3092.30	5,219	3237.35	5,503	3237.81	5,675	3165.91	5,664	3033.57	5,729	3002.02	5,799
Belgium	High	3716.36	4,550	3700.00	4,518	3664.50	4,573	3751.95	4,938	3775.88	5,077	4024.66	5,505	4142.98	5,763	4256.91	5,981	4352.68	6,309	4463.48	6,576	4488.47	6,751	4478.62	7,028	4678.44	7,480	4712.91	7,733	4971.73	8,390	4813.77	8,478	4887.25	8,826	4691.98	8,780	4470.35	8,816
Bulgaria	Upper-middle	469.68	502	487.65	535	450.91	509	487.18	551	475.83	568	494.71	597	473.02	553	479.54	589	455.91	569	441.53	579	441.53	579	447.61	577	491.00	639	512.97	671	492.25	660	517.51	739	517.51	831	451.98	781		
Croatia	High	590.38	630	677.97	724	795.45	855	859.10	952	962.43	1,048	963.68	1,072	1034.17	1,158	1071.04	1,193	1056.75	1,211	1231.93	1,390	1268.58	1,460	1433.56	1,640	1342.47	1,614	1361.18	1,622	1381.46	1,649	1241.09	1,564	1158.00	1,522	1162.67	1,561	1160.11	1,585
Cyprus	High	21.71	28	15.32	24	24.89	38	19.01	34	25.99	52	34.31	71	27.41	63	32.59	60	47.69	95	59.17	114	64.85	154	80.27	171	100.94	222	110.76	264	137.73	290	129.38	304	153.34	375	195.93	444	182.97	468
Czechia	High	1872.16	2,032	2068.51	2,218	2112.22	2,275	2116.51	2,380	2242.14	2,542	2309.45	2,613	2485.84	2,867	2536.88	2,955	2441.16	2,912	2540.71	3,034	2776.32	3,310	2980.36	3,522	2973.30	3,625	2764.50	3,456	3152.40	3,982	3050.87	3,926	2993.08	4,023	2765.06	3,859	2538.20	3,597
Denmark	High	2730.53	3,405	2675.35	3,343	2652.34	3,267	2576.65	3,476	2831.21	3,786	2925.95	4,012	3024.19	4,239	3169.44	4,512	3339.63	4,755	3421.75	4,931	3576.12	5,210	3921.28	5,652	4305.67	6,267	4573.27	6,709	5251.96	7,785	5056.85	7,871	5254.92	8,234	5271.82	8,562	5090.97	8,447
Estonia	High	82.93	119	82.23	129	76.51	124	94.21	160	108.89	173	95.46	156	104.56	185	118.16	196	120.62	205	112.46	213	146.28	267	136.79	268	137.65	270	172.45	343	145.34	325	151.51	372	171.55	393	190.11	426	168.54	396
Finland	High	2734.63	3,306	2735.43	3,281	2515.13	3,023	2439.74	3,152	2551.91	3,306	2492.00	3,249	2374.98	3,194	2314.45	3,170	2343.40	3,264	2457.29	3,416	2419.12	3,449	2415.57	3,494	2546.59	3,725	2390.30	3,612	2571.16	3,918	2520.96	4,062	2681.99	4,212	2489.01	4,194	2486.60	4,155
France	High	15518.25	17,393	15495.77	17,280	14860.39	16,802	14940.45	17,524	15740.49	18,550	16370.33	19,368	16545.17	19,805	16984.46	20,461	17155.71	20,834	17269.26	21,257	17411.22	21,705	17752.41	22,381	18380.65	23,534	18194.85	23,630	18225.81	24,047	18147.54	24,323	18428.57	25,064	18024.72	25,198	17860.22	25,434
Germany	High	22695.94	25,572	23804.89	26,581	23703.50	26,761	23049.31	27,049	23927.97	28,287	25060.85	29,864	25629.29	30,687	26148.03	31,748	25940.82	31,780	26288.69	32,582	26223.89	32,979	27171.63	34,418	27859.01	35,974	28395.18	36,990	28492.35	37,457	28004.31	37,548	28738.37	38,846	28578.33	39,336	27163.76	38,115
Greece	High	1603.90	1,877	1724.55	1,971	1933.86	2,204	2089.63	2,499	2549.85	3,020	2956.19	3,509	3417.41	4,077	3459.72	4,220	3693.77	4,527	3726.80	4,642	3753.13	4,676	3825.32	4,844	3442.10	4,613	3413.28	4,622	3236.82	4,595	3021.38	4,412	2908.26	4,353	3037.37	4,609	2945.79	4,536
Hungary	High	1373.89	1,631	1452.78	1,728	1404.53	1,689	1378.10	1,714	1506.58	1,895	1745.02	2,176	1676.70	2,155	1696.66	2,184	1740.89	2,223	1617.40	2,127	1620.92	2,205	1683.57	2,271	1597.83	2,250	1497.55	2,198	1719.76	2,415	1548.10	2,282	1581.22	2,396	1485.14	2,351	1460.52	2,325
Ireland	High	898.75	1,122	955.97	1,175	941.80	1,216	985.83	1,319	1142.30	1,562	1195.86	1,591	1338.05	1,892	1511.46	2,047	1589.30	2,310	1800.41	2,564	1929.91	2,745	2093.11	2,939	2072.55	2,996	2175.10	3,177	2228.69	3,311	2159.87	3,347	2209.93	3,526	2270.47	3,724	2355.45	4,058
Italy	High	13090.20	14,659	13577.21	15,075	13561.97	15,259	14282.62	16,424	14674.37	17,130	15565.13	18,285	16352.26	19,319	16927.70	20,226	17420.70	21,041	17517.51	21,425	17785.28	22,175	18155.03	22,810	19765.16	24,861	20360.85	25,893	20664.52	26,587	20214.12	26,724	20610.03	27,624	20392.02	28,006	20649.53	28,666
Latvia	High	21.53	33	33.27	43	27.19	44	18.37	38	20.33	38	26.59	60	37.10	71	27.77	51	56.69	93	68.08	106	64.71	113	112.42	165	104.27	165	150.52	240	98.65	178	106.27	196	132.16	239	132.16	256	131.47	244
Lithuania	High	40.67	68	28.92	52	307.15	351	274.08	313	301.66	347	297.42	349	273.91	346	271.76	363	232.62	315	264.46	352	214.78	330	192.33	296	240.89	366	254.59	395	257.15	411	293.51	469	306.68	524	312.94	544	333.64	578
Luxembourg	High	27.94	45	27.44	44	28.63	47	29.25	60	39.24	69	46.29	77	46.11	97	42.27	104	66.86	147	64.65	126	64.53	139	67.69	160	68.21	178	74.22	177	87.98	250	108.22	311	88.48	323	84.53	335		
Malta	High	18.56	25	24.02	31	15.31	19	37.09	50	27.84	37	19.69	32	19.13	49	28.84	50	68.01	93	58.18	90	55.93	85	70.55	108	96.92	166	105.48	165	114.13	195	125.94	226	126.45	238	133.92	247	153.18	276
Netherlands	High	7120.17	8,506	6978.56	8,290	7132.01	8,605	7336.29	9,240	7963.73	10,087	8754.78	11,085	9225.48	11,901	9313.78	12,128	9468.61	12,529	10502.86	14,055	10762.65	14,600	11174.59	15,369	11561.0													

TABLE SSA-10

S&E articles in health sciences, by region, country, or economy: 2000–18

(Number)

Region, country, or economy	Economies by income status	2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018	
		Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count
Spain	High	8816.61	9,658	8805.13	9,602	9012.43	9,920	9329.97	10,598	9751.28	11,117	11078.91	12,625	11908.73	13,776	12247.72	14,251	12673.65	14,949	12853.47	15,286	13404.01	16,227	13753.83	16,815	14113.49	17,523	14223.60	17,977	14723.89	18,874	14910.95	19,482	15534.09	20,438	15524.18	20,949	14870.07	20,490
Sweden	High	5527.74	6,765	5501.72	6,719	5192.05	6,428	5117.20	6,695	5098.37	6,799	5477.42	7,372	5383.89	7,286	5655.24	7,857	5507.03	7,810	5793.21	8,250	5643.42	8,353	5751.19	8,678	5858.22	9,146	6199.17	9,775	6379.65	10,306	6409.43	10,641	6366.31	10,866	6466.22	11,309	6172.88	11,085
United Kingdom	High	28065.14	31,847	26998.21	30,548	26411.26	30,403	26377.86	31,386	27165.95	32,835	28590.59	34,877	29628.45	36,463	30452.27	38,129	30174.29	38,465	30725.26	39,654	29841.93	39,423	30740.00	41,287	32351.35	43,822	32441.22	45,021	31829.80	45,504	32003.60	47,212	31639.87	47,957	30533.16	48,047	30761.20	49,170
Other Europe		12694.90	14,800	13459.39	15,537	14705.79	16,999	16085.15	19,173	17188.30	20,767	19109.19	22,900	19671.57	23,734	20292.49	24,953	20774.94	25,659	22082.50	27,407	22589.48	28,342	24432.86	30,722	26907.15	33,904	28262.00	35,559	29449.87	37,570	30785.37	39,559	32807.73	42,460	31658.78	41,998	32757.05	43,546
Albania	Upper-middle	2.00	2	1.67	3	7.46	12	4.73	12	3.88	11	3.14	9	7.37	19	8.94	18	14.74	23	16.44	26	22.55	39	27.84	50	38.49	63	48.90	73	73.25	109	51.89	90	56.45	106	33.21	92	41.64	110
Andorra	High	0.00	0	2.00	2	0.00	0	2.71	4	0.69	2	3.56	6	2.10	5	3.77	10	0.63	2	2.27	4	0.79	4	0.16	2	0.22	2	0.17	3	0.50	5	3.37	6	3.25	9	0.96	7	1.33	9
Belarus	Upper-middle	47.69	66	51.07	60	65.60	88	46.16	59	41.82	69	43.64	72	68.83	108	50.56	85	56.30	100	46.20	88	45.26	72	59.74	105	55.28	98	108.97	152	86.75	147	109.22	164	101.43	171	133.23	212	176.22	267
Bosnia and Herzegovina	Upper-middle	57.85	60	46.24	51	77.01	83	110.28	122	164.23	181	161.77	176	207.46	237	180.29	218	230.32	271	253.70	298	236.41	305	233.42	331	199.19	305	173.03	267	193.36	281	254.06	335	254.06	388	222.88	362		
Holy See (Vatican City)	na	0.00	0	0.00	0	0.00	0	0.00	0	1.67	2	0.00	0	0.00	0	0.00	0	0.50	1	0.13	1	1.00	1	1.00	0.94	2	0.09	1	2.04	4	2.97	7	1.51	7	2.68	6	1.09	3	
Iceland	High	66.66	105	82.63	137	96.03	139	77.36	152	99.81	175	120.85	206	132.53	220	98.36	201	133.71	248	151.57	298	182.48	335	143.99	286	168.93	318	164.87	338	173.90	378	159.98	385	175.15	398	171.26	404	189.61	443
Kosovo	Lower-middle	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	26.21	46	60.06	86	43.85	80	29.54	53	35.88	67	35.70	58	39.55	74	47.40	89	58.19	100	81.45	135	73.68	129
Liechtenstein	High	0.20	1	0.00	0	0.75	2	2.11	9	4.30	13	11.90	22	7.11	12	4.37	14	8.70	18	4.63	18	12.21	27	11.29	26	5.28	22	5.09	19	3.64	22	7.70	28	4.62	25	5.32	25	3.31	18
Moldova	Lower-middle	3.27	5	1.69	5	1.38	3	6.04	9	6.93	11	12.21	21	3.42	12	5.67	11	6.02	13	8.04	14	13.40	25	12.46	22	10.81	24	17.81	34	17.40	47	15.98	42	23.35	57	30.88	72	24.16	62
Monaco	High	3.59	8	8.99	17	9.77	14	11.15	15	11.22	22	9.45	25	8.31	19	9.26	21	10.99	27	12.30	26	17.45	31	12.43	38	11.66	39	15.12	49	16.05	41	15.01	52	16.18	60	21.30	62	13.19	45
Montenegro ^a	Upper-middle	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	3.34	8	10.74	25	15.75	36	12.22	29	14.77	32	20.88	38	27.05	54	33.13	64	35.42	65	32.46	64	46.60	90	42.07	77
North Macedonia	Upper-middle	26.94	30	28.45	34	30.31	35	21.77	30	34.56	51	56.94	71	65.26	86	68.75	89	102.83	134	103.72	147	80.91	113	125.53	162	127.50	181	147.87	203	177.68	259	173.77	250	152.23	241	103.94	198	134.03	235
Norway	High	1912.07	2,325	1868.19	2,276	1702.31	2,122	1846.41	2,392	1848.40	2,511	2138.14	2,849	2096.95	2,921	2250.42	3,182	2451.52	3,460	2563.64	3,709	2509.36	3,759	2627.77	3,950	2834.30	4,306	2832.70	4,329	2870.46	4,609	2872.46	4,805	3127.63	5,260	3135.15	5,411	3346.36	5,724
Russia	Upper-middle	2134.72	2,371	2208.19	2,405	2235.04	2,487	2217.84	2,556	2043.72	2,419	2131.41	2,474	2121.60	2,446	2131.80	2,478	2123.56	2,476	2223.03	2,561	2263.55	2,646	2773.67	3,185	3435.04	3,881	4226.08	4,887	4834.94	5,614	6633.85	7,519	7507.51	8,495	8758.83	9,841		
San Marino	High	1.50	2	1.09	2	0.00	0	0.17	1	0.58	2	1.33	3	0.67	2	1.75	3	2.71	6	0.71	3	0.23	2	0.44	3	0.14	3	2.31	7	0.47	3	5.34	14	1.67	8	1.80	5	3.67	11
Serbia ^a	Upper-middle	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	797.11	906	823.93	976	1036.23	1,197	1097.09	1,315	1223.68	1,438	1355.20	1,641	1312.08	1,601	1326.38	1,710	1155.84	1,541	1107.69	1,495	1120.39	1,570	998.03	1,466
Serbia and Montenegro ^b	Lower-middle	423.33	450	448.08	480	525.65	570	486.54	523	601.55	666	800.34	889	788.92	893	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Switzerland	High	4487.53	5,748	4280.95	5,573	4310.20	5,688	4345.04	6,205	4628.80	6,721	4844.96	7,080	5106.76	7,537	5205.42	7,974	5252.01	8,139	5397.38	8,544	5455.09	8,825	5966.58	9,762	6318.81	10,590	6461.46	10,841	6418.70	11,217	6512.27	11,624	6918.43	12,234	6986.77	12,881		
Turkey	Upper-middle	3226.57	3,396	4161.73	4,317	5372.01	5,571	6665.03	6,988	7499.79	7,913	8589.37	9,025	8878.28	9,365	9312.88	9,832	9351.64	9,929	9993.88	10,622	10453.41	11,103	10930.64	11,548	12064.12	12,756	12885.92	13,672	13398.27	14,216	14033.71	14,964	13740.56	14,903	11188.81	12,392	10861.77	12,068
Ukraine	Lower-middle	300.98	339	268.43	294	272.27	307	241.81	292	196.34	259	180.18	239	176.01	252	159.79	250	167.88	235	192.85	252	232.88	347	224.49	329	333.97	455	392.26	554	556.61	742	687.76	892	901.81	1,131	1266.39	1,507		
Middle East		5059.14	5,791	5006.35	5,689	5314.88	6,114	5733.81	6,845	6103.54	7,315	6846.43	8,148	7741.92	9,177	8580.29	10,188	9251.37	11,077	10354.73	12,348	10870.80	13,271	12561.71	15,403	14133.37	17,262	15308.60	18,877	16748.83	20,877	16991.75	21,685	18952.55	24,249	20094.96	25,733	21933.27	28,238
Armenia	Upper-middle	30.08	39	25.96	31	30.42	39	24.39	29	24.52	29	30.28	37	34.26	49	21.09	41	22.16	38	39.16	55	43.33	63	47.03	66	63.17	85	52.73	74	67.71	95	69.65	95	52.66	96	67.47	114	50.03	110
Azerbaijan	Upper-middle	4.27	6	5.29	7	51.23	53	58.38	61	127.15	133	72.28	76	41.87	47	181.62	186	178.89	187	174.35	184	131.01	148	130.38	151	131.27	143	86.14	98	29.22	51	126.08	158	146.54	172	97.37	135		
Bahrain	High	37.67	38	30.39	38	25.47	30	53.40	67	69.83	85	77.72	96	89.37	118	73.67	102	62.37	93	82.90	126	66.66	95	63.42	103	60.15	107	107.04	157										

TABLE SSA-10

S&E articles in health sciences, by region, country, or economy: 2000–18

(Number)

Region, country, or economy	Economies by income status	2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018	
		Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count
Kuwait	High	117.91	151	132.90	158	127.28	158	152.28	209	154.38	223	175.93	241	172.34	237	195.84	256	213.55	291	206.25	274	217.69	311	181.80	254	193.83	292	203.68	293	201.88	311	184.16	322	189.73	341	201.05	367	184.64	346
Lebanon	Upper-middle	173.32	205	205.54	237	169.88	212	225.44	285	203.63	273	247.96	303	268.71	340	279.92	373	316.29	416	301.70	422	301.33	435	293.22	444	352.29	554	362.43	601	397.93	670	423.05	694	507.27	866	565.62	964	602.77	1,036
Oman	High	90.43	105	103.27	111	79.14	89	101.74	121	89.82	110	85.25	107	89.95	127	106.32	135	121.27	159	132.49	172	115.69	163	187.61	254	163.92	233	220.34	302	201.14	291	198.19	316	194.16	331	167.62	283	166.09	322
Qatar	High	19.33	21	40.50	42	49.42	56	59.80	72	62.10	76	91.76	111	102.42	131	122.63	156	105.68	153	110.83	174	135.79	222	142.67	239	167.38	297	194.46	381	246.60	556	274.62	670	295.92	769	312.30	805	351.41	859
Saudi Arabia	High	705.64	780	639.65	699	712.94	785	731.37	855	753.30	885	698.69	825	766.38	917	762.01	931	827.67	1,057	926.48	1,177	1083.26	1,447	1229.25	1,859	1370.86	2,181	1525.08	2,472	1869.98	3,139	1999.75	3,455	2114.07	3,748	2214.94	3,943	2524.93	4,387
Syria	Low	19.47	25	19.93	23	11.56	17	17.45	30	17.58	30	25.44	43	13.92	28	20.50	41	26.61	50	28.12	51	42.65	79	60.00	80	70.83	124	68.31	121	78.57	132	92.73	134	79.97	126	95.74	152		
United Arab Emirates	High	115.76	144	131.56	162	102.72	139	135.21	200	134.40	210	149.51	239	184.04	288	148.24	253	186.20	311	195.11	321	209.92	374	216.08	398	242.90	452	254.83	465	281.13	535	321.79	676	311.73	737	348.51	879	483.33	1,140
West Bank ^c	Lower-middle	6.32	10	4.14	9	1.40	4	6.44	11	7.84	14	12.37	18	15.00	27	14.00	23	16.98	25	32.11	51	29.20	53	29.71	52	34.59	59	38.80	76	40.69	79	46.31	98	69.06	128	83.79	153		
Yemen	Low	13.18	16	17.42	21	12.95	14	17.63	20	20.55	26	25.38	33	21.88	29	15.78	22	24.96	38	32.82	54	37.74	58	30.44	69	33.91	88	37.58	83	45.61	83	43.84	95	57.48	112	42.95	118	35.39	113
Africa		3195.37	3,895	3545.08	4,202	3546.15	4,229	3785.48	4,749	4073.65	5,189	4576.36	5,826	5178.59	6,687	5471.77	7,158	6189.78	8,080	7060.55	9,295	7714.04	10,385	8772.84	11,669	9416.21	12,624	9988.75	13,459	11368.12	15,498	11956.48	16,562	12394.05	17,422	12340.64	17,788	12990.28	19,035
Algeria	Upper-middle	12.75	25	19.01	33	19.54	26	20.17	36	25.00	47	23.77	36	33.02	54	28.35	53	50.03	84	77.67	132	71.98	115	69.97	106	128.18	193	113.48	169	146.29	202	256.02	335	214.28	347	164.37	270	187.92	299
Angola	Lower-middle	2.81	5	3.58	5	1.96	3	0.46	2	2.70	7	1.24	5	2.34	7	2.14	9	3.58	16	6.07	13	3.65	13	5.02	15	6.89	21	7.42	23	11.96	31	14.60	41	18.84	47	12.85	36	12.78	38
Benin	Low	9.86	15	10.97	18	12.44	21	8.23	16	15.85	35	20.74	42	21.24	47	29.85	52	21.55	50	31.37	56	25.53	60	29.93	60	48.44	106	54.90	97	62.16	124	54.55	120	48.16	111	47.17	121	69.21	139
Botswana	Upper-middle	16.64	20	18.71	25	8.02	14	16.88	26	8.29	14	15.40	28	29.74	44	20.47	35	15.47	31	26.08	41	30.23	53	26.19	66	23.52	53	40.48	73	60.21	119	30.49	77	56.77	119	43.51	99	59.40	138
Burkina Faso	Low	26.81	36	39.20	52	44.36	59	28.81	56	29.85	58	25.92	55	39.62	93	48.59	89	51.05	108	50.64	106	56.53	109	59.75	122	83.50	172	74.45	141	106.97	207	117.99	215	105.12	218	91.75	205	93.32	208
Burundi	Low	0.13	1	0.00	0	0.00	0	0.25	1	1.00	3	1.17	2	0.93	4	1.51	10	0.58	3	0.58	4	1.48	6	3.12	8	4.83	10	7.63	15	5.43	16	6.08	19	3.72	20	5.97	22		
Cabo Verde	Lower-middle	0.00	0	0.00	0	0.17	1	0.48	2	0.88	1	0.00	0	0.92	2	0.08	1	0.15	2	0.48	2	1.00	2	0.00	0	0.00	0	0.62	2	1.33	7	1.42	7	1.73	6	1.44	7		
Cameroon	Lower-middle	24.21	38	43.71	64	53.06	75	46.32	79	48.50	86	57.51	85	63.73	99	56.96	100	55.41	100	84.96	158	85.06	154	110.09	196	130.67	215	169.38	281	179.92	288	224.20	352	215.55	353	203.75	381	225.90	425
Central African Republic	Low	4.75	9	3.90	6	2.69	6	4.03	6	3.20	4	4.50	6	7.14	11	3.12	5	3.38	5	3.32	8	4.88	10	3.32	7	3.88	11	5.08	9	9.65	19	5.74	13	16.63	33	10.66	22	7.21	20
Chad	Low	0.00	0	0.00	0	3.69	8	2.48	5	8.87	12	4.60	8	3.53	12	1.05	2	2.57	8	2.22	8	0.75	2	1.90	6	2.05	7	2.49	8	4.35	16	5.67	11	4.91	18	8.47	23	6.15	21
Comoros	Low	0.78	1	0.20	0	0.00	0	0.00	0	1.00	1	1.43	2	1.00	1	3.29	7	0.37	1	0.17	1	1.00	1	1.00	1	0.54	2	4.00	2	0.82	1	1.85	7	1.70	5	0.16	1		
Congo, Democratic Republic of the	Low	8.13	17	7.36	11	5.18	10	8.71	19	7.89	18	9.97	19	11.69	27	15.16	35	22.17	41	23.53	61	25.91	63	23.38	76	42.92	105	48.20	109	78.12	145	74.39	140	54.56	132	66.53	159	77.55	191
Congo, Republic of the	Lower-middle	9.68	13	9.08	10	15.53	22	20.21	31	29.44	42	26.87	41	23.07	41	26.78	52	23.69	40	20.33	44	20.87	47	25.79	54	28.54	67	27.67	58	45.94	100	47.62	113	39.90	103	33.64	88	34.64	106
Côte d'Ivoire	Lower-middle	33.63	52	43.12	68	41.24	68	45.35	65	60.83	81	50.56	71	51.80	84	51.20	77	68.75	96	64.54	100	56.89	92	89.58	129	86.81	129	75.60	122	94.64	153	70.59	141	70.40	139	62.79	132		
Djibouti	Lower-middle	1.00	1	0.50	1	1.28	2	1.00	2	1.17	2	2.92	3	1.23	4	0.53	3	2.22	6	6.04	7	4.95	6	0.98	5	6.05	10	2.55	5	2.88	7	1.42	3	2.47	9	1.00	1	0.47	2
Egypt	Lower-middle	419.77	510	439.69	523	434.02	531	551.40	702	556.68	738	606.50	834	697.16	939	778.48	1,054	959.76	1,291	1228.74	1,664	1555.35	2,113	1931.46	2,554	2153.90	2,869	2288.49	3,042	2543.40	3,534	2730.08	3,864	3104.67	4,426	3035.79	4,436	3354.02	4,955
Equatorial Guinea	Upper-middle	0.00	0	0.83	1	0.46	2	0.75	2	2.18	3	0.00	0	2.37	6	0.50	2	2.37	5	1.27	5	1.00	2	1.94	6	2.15	5	0.74	3	2.35	6	2.17	6	2.02	8	1.76	8		
Eritrea	Low	0.23	2	1.13	2	0.63	2	3.60	7	3.58	4	3.05	8	5.55	10	4.24	9	1.71	4	1.37	5	2.88	4	2.83	7	1.43	3	2.84	5	1.35	6	4.76	7	2.93	8	6.57	12	10.35	20
Eswatini	Lower-middle	1.00	1	0.00	0	1.23	4	2.17	3	2.51	5	2.40	7	2.63	6	2.04	9	0.52	3	4.24	11	3.68	12	2.62	14	5.65	16	5.97	16	4.22	17	7.77	27	8.54	27	18.08	44	9.06	27
Ethiopia	Low	76.12	93	74.85	93	81.32	99	75.62	108	86.17	121	76.68	117	92.39	131	104.20	155	125.40	183	123.11	199	151.69	240	172.82	276	252.32	370	339.00	467	462.08	654	429.51	650	512.99	747	696.87	996	779.98	1,137
Gabon	Upper-middle	12.53	20	9.91	12	12.53	18	9.30	18	12.74	24	15.36	31	16.93	43	12.51	30	11.92	29	22.76	39	20.63	47	28.75	60	19.60	37	24.58	57	20.37	51	17.20	46	25.49	53	17.20	46	25.50	52
Gambia, The	Low	18.97	36	20.87	34	13.98	29	14.30	33	14.94	35	16.56	41	19.01	44	13.17	32	15.62	43	16.05	48	17.59	52	14.37	41	12.31	44	19.11	62	26.41	74	23.48	81	24.10	84	17.22	63	19.45	71
Ghana	Lower-middle	49.36	74	41.24	72	43.89	61	36.51	64	57.78	101	64.22	118	59.81	115	68.59	134	64.97	121	75.83	147	91.62	184	136.96	279	170.60	345	218.29	387	243.07	458	292.57	543	401.25	692	351.31	661	402.21	756
Guinea	Low	1.37	3	9.03	13	6.67	11	1.34	3	5.24	8	4.45	7	9.55	17	7.66	15	6.97	19	5.02																			

TABLE SSA-10

S&E articles in health sciences, by region, country, or economy: 2000–18

(Number)

Region, country, or economy	Economies by income status	2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018	
		Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count		
Guinea-Bissau	Low	0.56	2	0.71	3	2.61	8	5.32	12	7.52	15	2.83	8	2.90	6	7.43	15	3.43	11	4.25	12	1.86	5	4.36	12	6.64	15	6.64	15	7.85	21	3.58	10	4.61	17	5.34	17	5.28	15
Kenya	Lower-middle	113.42	179	122.55	174	131.87	189	126.69	227	172.62	276	161.13	255	152.82	273	195.34	362	213.48	378	241.03	415	214.33	472	227.05	491	257.27	515	319.21	663	321.52	718	317.22	737	338.12	770	357.62	845	399.32	926
Lesotho	Lower-middle	0.33	1	1.25	2	2.08	3	1.62	3	0.77	3	3.19	8	0.92	1	1.68	9	0.84	4	2.48	7	1.11	5	1.79	8	3.13	11	2.97	7	6.65	17	4.09	9	4.56	11	4.04	12		
Liberia	Low	0.00	0	0.00	0	0.24	2	0.50	1	0.08	1	1.08	2	1.00	1	1.40	2	0.17	1	0.33	1	1.47	5	6.74	12	4.35	13	2.60	11	4.55	12	8.11	30	9.74	38	15.05	43	14.76	53
Libya	Upper-middle	23.82	28	15.53	21	10.20	13	13.08	21	6.02	9	9.08	12	20.05	29	17.02	24	21.74	38	92.74	117	101.37	140	27.44	51	30.61	64	37.57	72	35.14	83	34.51	82	32.89	76	29.44	74	30.02	91
Madagascar	Low	29.47	35	36.99	43	20.54	25	37.97	50	17.58	31	13.96	25	16.13	30	30.10	45	30.82	47	21.46	35	20.95	35	29.91	55	26.51	51	25.69	52	44.61	73	39.69	71	37.08	67	47.41	88	40.47	86
Malawi	Low	33.21	51	33.91	49	37.98	56	32.04	55	42.09	69	43.19	75	41.31	84	64.20	118	53.23	114	52.64	122	66.43	141	59.97	143	66.15	163	71.61	183	83.30	218	87.96	234	110.13	304	112.56	324	113.19	342
Mali	Low	5.97	11	13.38	20	16.82	29	16.69	27	11.49	27	18.69	31	34.30	59	45.56	81	38.38	65	42.20	81	43.88	83	46.75	88	49.84	101	30.28	71	36.58	76	33.52	97	43.59	100	48.04	105	43.88	103
Mauritania	Lower-middle	1.71	6	3.30	7	2.83	6	0.22	1	0.00	0	3.58	7	1.47	5	1.92	3	0.62	3	0.64	1	2.26	4	4.80	9	0.60	5	4.59	10	2.64	6	9.47	19	10.84	21	7.82	15	9.09	20
Mauritius	Upper-middle	2.29	4	4.75	8	1.25	2	4.68	8	7.51	13	10.77	13	4.19	10	3.21	9	4.57	10	6.21	11	1.35	7	6.07	15	10.11	20	11.18	24	22.15	35	20.18	40	15.49	30	10.70	32	7.70	27
Morocco	Lower-middle	220.71	252	259.32	296	285.21	322	271.99	307	223.33	266	226.70	271	286.53	342	325.92	383	357.68	417	501.69	573	612.46	686	680.16	747	733.88	837	790.96	887	996.85	1,097	965.82	1,099	815.70	949	777.75	931	706.99	862
Mozambique	Low	7.54	15	9.99	17	8.09	14	9.48	21	10.74	32	9.54	22	18.45	39	22.49	52	21.09	51	26.34	63	17.44	54	31.09	88	23.95	76	29.03	104	44.87	123	50.94	162	50.94	172	50.43	165		
Namibia	Upper-middle	2.84	5	0.17	1	3.14	6	7.25	11	2.61	5	1.96	6	5.35	10	5.59	14	3.70	8	1.89	7	5.55	14	8.25	26	10.02	29	16.61	38	17.22	51	18.97	58	20.51	59	14.07	45	15.08	62
Niger	Low	9.25	12	13.41	16	5.52	9	9.48	20	7.22	11	14.48	12	14.48	18	9.38	12	14.48	27	12.31	24	10.99	23	7.22	31	11.05	26	9.36	26	12.77	31	17.00	46	19.99	39	22.91	39	21.54	46
Nigeria	Lower-middle	407.44	457	478.76	513	550.54	581	531.54	574	638.99	709	847.68	922	985.97	1,075	996.26	1,103	1085.71	1,222	1208.75	1,396	1223.47	1,482	1440.74	1,703	1303.25	1,550	1355.73	1,616	1438.90	1,752	1302.34	1,667	1291.65	1,736	1308.39	1,782	1369.11	1,918
Rwanda	Low	1.90	4	0.60	2	2.38	4	2.47	5	4.85	14	3.24	7	10.49	22	10.28	22	10.79	30	14.99	37	16.47	46	21.48	58	22.26	58	57.93	119	54.34	123	60.12	145	69.68	171	59.63	161	84.96	195
São Tomé and Príncipe	Lower-middle	0.37	2	0.33	2	0.53	3	1.55	4	0.38	2	0.00	0	0.47	1	1.31	4	0.00	0	0.20	1	2.10	3	0.00	0	0.14	1	1.42	3	0.87	2	0.41	2	0.00	0				
Senegal	Low	79.92	100	89.75	108	93.93	112	105.25	147	91.60	119	99.51	132	90.37	125	114.35	155	120.09	166	89.08	142	101.28	154	137.42	205	111.17	193	120.52	191	146.46	241	176.62	274	152.85	231	148.16	239	104.95	211
Seychelles	High	0.64	3	0.07	1	0.25	1	0.00	0	0.88	4	0.69	3	2.11	6	2.66	8	3.32	9	1.11	4	1.58	6	3.24	10	2.00	6	2.12	8	0.67	4	2.02	9	1.38	9	1.49	11	2.88	9
Sierra Leone	Low	1.05	3	1.12	2	1.48	3	0.00	0	1.00	1	3.43	6	2.07	5	1.91	8	2.23	4	2.74	7	6.32	18	5.65	13	7.30	20	7.31	18	12.79	39	17.94	49	22.51	67	22.24	72	18.42	66
Somalia	Low	0.30	1	0.00	0	0.71	1	1.50	2	0.14	1	0.00	0	0.83	3	0.00	0	0.40	1	1.00	2	1.45	5	1.70	3	2.42	4	2.12	4	2.42	8	2.12	4	1.31	6	7.77	19	6.05	14
South Africa	Upper-middle	1047.73	1,247	1080.97	1,266	1001.95	1,192	1043.89	1,313	1098.44	1,395	1202.88	1,560	1240.71	1,655	1267.78	1,737	1519.52	2,087	1638.00	2,226	1625.70	2,318	1814.17	2,523	2045.58	2,942	2136.70	3,090	2360.35	3,520	2464.43	3,751	2649.77	4,073	2657.34	4,226	2746.98	4,547
South Sudan	Low	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	1.24	2	3.22	10	4.27	9	3.87	9	2.01	7	4.91	19	6.06	20		
Sudan	Lower-middle	23.38	33	27.74	39	32.16	40	34.99	53	57.86	74	53.58	76	47.39	73	52.73	84	62.04	96	66.63	111	69.68	118	79.03	135	89.18	166	93.82	172	96.28	206	131.50	252	104.61	213	87.20	210		
Tanzania	Low	57.89	101	60.69	111	52.88	106	52.53	123	66.55	151	76.48	161	126.15	241	127.05	243	136.79	271	144.17	312	151.45	334	193.64	378	194.23	409	190.87	419	252.50	535	241.02	509	248.83	522	248.24	555	255.87	594
Togo	Low	21.70	26	17.81	20	11.32	15	14.10	17	10.87	19	12.06	17	13.68	20	17.22	25	26.28	34	25.48	37	29.86	42	26.84	38	29.65	41	40.80	57	55.86	82	59.06	87	46.85	82	47.51	70	54.66	84
Tunisia	Lower-middle	206.08	234	314.93	338	329.37	354	442.13	487	470.92	521	587.27	656	682.60	758	700.35	793	777.75	879	799.45	916	896.26	1,020	884.84	1,015	861.35	996	766.51	908	833.32	986	994.39	1,175	872.59	1,065	841.72	1,025	853.76	1,066
Uganda	Low	50.68	74	66.87	91	71.06	96	62.97	113	78.31	140	85.16	150	93.38	182	90.41	190	107.74	229	133.51	275	160.23	351	188.02	397	197.45	440	214.07	431	259.91	547	315.64	664	272.76	620	296.62	726	294.95	704
Western Sahara	na	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.17	1	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0		
Zambia	Lower-middle	14.31	31	19.44	36	16.22	29	14.88	30	13.63	31	13.55	34	28.65	68	33.98	84	37.40	89	30.63	92	42.71	110	47.32	131	47.84	129	53.78	151	76.64	212	76.64	212	86.48	228	81.14	238	98.42	257
Zimbabwe	Low	100.34	134	73.84	98	50.96	82	44.41	79	43.38	77	42.87	84	56.81</																									

TABLE SSA-10

S&E articles in health sciences, by region, country, or economy: 2000–18

(Number)

Region, country, or economy	Economies by income status	2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018	
		Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count
Bhutan	Lower-middle	0.00	0	0.00	0	1.00	1	0.00	0	1.25	2	0.00	0	2.17	4	0.67	1	0.17	2	1.50	2	2.96	6	6.21	15	6.10	16	6.67	15	5.77	14	6.49	19	12.23	30	10.16	33	9.23	24
Brunei	High	4.17	5	2.08	3	2.00	2	3.67	6	3.33	10	10.27	16	8.91	17	8.16	20	18.01	34	13.05	20	20.17	30	42.08	51	42.58	60	49.32	71	58.54	80	47.85	68	33.64	54	40.36	59	29.15	60
Burma	Lower-middle	8.92	14	5.54	11	6.48	12	3.33	8	6.18	15	5.36	12	6.16	16	7.75	19	5.97	17	6.72	17	6.26	25	8.31	22	11.86	32	14.38	34	24.31	29	11.02	29	42.34	63	40.34	127	39.77	116
Cambodia	Lower-middle	4.94	9	4.84	13	8.13	20	5.77	16	19.13	43	11.79	31	17.47	41	22.99	58	20.48	48	23.21	58	24.11	62	30.28	71	31.79	85	33.84	89	47.10	130	59.67	158	46.05	142	52.30	152		
China	Upper-middle	7603.59	8,274	8246.39	8,935	11345.32	12,144	14409.72	15,630	18192.61	19,613	23045.42	24,955	25392.20	27,632	27871.87	30,605	32191.39	35,365	34313.23	37,978	34684.26	39,590	36291.19	41,673	41458.85	47,294	50111.47	56,036	57389.31	62,944	60357.89	66,413	64658.47	71,595	67142.86	74,839	69223.13	76,788
India	Lower-middle	4256.52	4,500	4621.51	4,846	5108.36	5,360	5674.13	6,037	5857.26	6,295	6600.76	7,118	7489.05	8,079	8084.62	8,748	8729.46	9,494	10057.67	10,950	12079.36	13,253	14816.35	16,135	16896.42	18,334	17364.24	18,956	18364.35	20,130	18839.93	20,709	19954.36	22,138	19462.19	21,704	19064.00	21,462
Indonesia	Lower-middle	80.31	118	43.69	89	48.31	90	70.81	137	88.55	156	111.52	199	118.00	214	100.64	191	112.95	209	129.44	258	127.70	263	132.48	291	205.12	407	242.64	459	294.68	503	380.42	657	568.68	895	982.81	1,299	1838.03	2,311
Japan	High	30958.64	32,607	30091.05	31,552	30129.62	31,712	29575.13	31,661	30832.36	32,924	30752.96	32,992	29791.92	32,000	29414.88	31,719	28545.40	30,941	28895.29	31,362	29872.80	32,579	31864.23	34,767	31592.35	34,683	30096.95	33,156	31806.72	34,776	30383.73	33,562	30770.41	34,311	29643.23	33,391	30042.73	33,913
Kazakhstan	Upper-middle	3.66	7	6.57	8	7.63	14	17.98	33	15.33	28	5.78	15	12.74	30	10.50	18	11.41	26	5.28	17	7.27	17	8.88	19	19.42	38	42.72	76	75.30	135	102.04	158	118.07	201	135.26	244	190.25	292
Kyrgyzstan	Lower-middle	0.75	1	2.51	4	1.34	2	2.50	3	3.17	4	5.49	8	4.37	8	5.97	13	4.03	8	6.27	12	5.37	14	5.00	9	11.16	22	13.91	30	12.98	27	8.30	20	21.67	43	26.99	62	28.00	65
Laos	Lower-middle	5.15	12	4.43	10	4.74	8	6.75	13	9.08	22	7.42	20	12.24	30	15.25	35	13.10	38	7.70	19	15.10	38	15.16	39	18.54	57	20.96	59	14.73	47	26.99	77	25.79	84	22.55	62	24.19	77
Malaysia	Upper-middle	376.53	419	341.70	380	310.30	352	373.99	441	479.67	556	534.61	634	600.91	723	608.25	750	899.97	1,075	849.48	1,066	1043.71	1,326	1291.61	1,679	1613.51	2,102	1914.80	2,504	1977.17	2,608	2032.75	2,816	2223.63	3,051	2256.72	3,149	2472.42	3,465
Maldives	Upper-middle	0.00	0	1.00	1	0.00	0	0.25	1	1.00	1	1.71	6	3.50	4	0.57	2	0.14	1	1.18	3	0.77	2	1.17	4	1.38	4	3.23	5	2.31	4	1.36	4	0.91	3	1.06	6	2.76	13
Mongolia	Lower-middle	5.54	13	1.23	4	6.55	11	7.26	16	6.47	17	7.09	19	9.08	25	10.70	26	9.87	25	21.85	46	15.34	46	11.00	32	15.54	41	13.29	42	13.38	46	13.65	53	16.54	60	16.59	56	18.37	68
Nepal	Low	41.51	62	57.30	80	61.81	83	168.67	204	164.09	206	200.02	242	279.22	343	278.69	350	260.14	329	290.69	380	273.89	409	274.45	432	263.36	384	327.59	457	337.17	485	326.55	496	347.34	539	370.38	617	461.71	731
North Korea	Low	0.00	0	0.02	1	0.06	1	0.00	0	1.20	3	0.46	3	1.22	2	0.14	1	1.21	3	0.62	2	1.55	2	1.40	3	0.17	1	0.66	4	1.29	3	2.90	5	1.07	4	3.57	8		
Pakistan	Lower-middle	448.77	484	586.10	621	634.16	679	634.55	701	687.96	775	898.74	1,004	872.03	981	971.91	1,079	1160.37	1,317	1404.22	1,647	1533.58	1,812	1855.41	2,126	1967.53	2,247	2094.12	2,447	2306.27	2,704	2283.67	2,757	2773.14	3,297	3110.97	3,758	3221.27	3,975
Papua New Guinea	Lower-middle	27.81	37	23.70	31	24.03	32	16.42	30	15.90	22	16.21	25	13.09	35	12.01	30	17.48	38	12.01	30	18.78	39	13.37	33	25.42	59	25.83	50	21.48	62	19.58	53	21.48	46	19.58	53	21.93	63
Philippines	Lower-middle	47.48	83	41.72	64	51.25	90	63.99	116	61.06	116	89.74	158	71.81	152	99.11	184	121.36	203	119.84	214	131.26	232	218.89	363	195.82	363	202.80	383	235.20	389	260.83	467	245.76	484	288.50	543	334.29	630
Singapore	High	763.34	903	737.91	889	802.21	969	858.47	1,104	1080.16	1,352	1115.99	1,417	1163.21	1,541	1134.94	1,550	1226.40	1,760	1240.30	1,837	1319.94	1,991	1421.34	2,227	1530.08	2,411	1671.55	2,207	1739.22	2,819	1933.76	3,171	2009.76	3,356	2008.12	3,465	2037.44	3,605
South Korea	High	2618.20	2,900	2817.28	3,110	3108.61	3,430	3927.39	4,417	4665.61	5,210	5725.66	6,398	6333.80	7,047	6936.66	7,702	8287.82	9,189	9562.69	10,558	11195.66	12,381	12056.10	13,419	13377.08	14,882	14178.87	15,814	14914.66	16,634	15654.82	17,459	16268.50	18,210	16577.64	18,546	16828.99	18,867
Sri Lanka	Lower-middle	70.94	83	78.92	96	98.57	117	93.10	122	96.44	125	107.99	155	96.80	145	118.72	171	146.00	205	166.86	235	165.55	242	197.17	287	200.29	310	213.52	311	241.06	325	236.86	366	267.79	416	302.92	446	314.09	458
Taiwan	High	2814.71	3,002	3101.32	3,306	3281.68	3,498	3605.75	3,953	4145.89	4,504	4637.44	5,021	4789.67	5,241	4907.34	5,414	5288.96	5,860	5386.17	5,986	5832.17	6,570	6225.93	6,963	6621.28	7,384	6787.51	7,669	6981.92	7,849	6943.46	7,943	6766.84	7,834	6298.33	7,450	6051.79	7,216
Tajikistan	Low	1.67	3	0.00	0	0.33	1	0.33	1	1.50	2	1.00	1	2.40	5	0.85	3	2.84	6	2.62	7	3.79	11	6.45	12	3.34	9	6.29	9	3.92	15	9.32	16	8.38	16	6.52	13		
Thailand	Upper-middle	752.85	929	827.06	955	861.21	1,032	845.46	1,073	931.51	1,195	1319.30	1,618	1281.18	1,615	1243.11	1,598	1383.20	1,818	1457.31	1,951	1520.89	1,983	1606.92	2,228	1862.02	2,589	1778.75	2,486	2046.48	2,787	2018.77	2,887	2336.18	3,319	2234.53	3,292	2763.61	3,889
Timor-Leste	Lower-middle	0.00	0	0.00	0	0.00	0	1.17	2	0.00	0	0.78	1	1.42	3	1.59	4	0.14	1	1.63	6	0.10	1	1.00	1	0.98	4	2.58	7	5.71	12	4.62	13	2.77	11	4.17	8	5.05	13
Turkmenistan	Upper-middle	0.37	2	0.40	1	0.75	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.67	1	0.92	1	0.60	0	0.00	0	0.00	0	0.00	0	0.04	1	0.00	0
Uzbekistan	Lower-middle	15.25	16	22.00	26	12.00	14	10.58	17	17.92	22	9.27	13	4.84	11	8.50	16	9.34	17	8.07	15	13.29	21	17.15	24	18.59	24	18.05	23	21.38	33	15.68	21	41.54	51	18.30	29	24.60	37
Vietnam	Lower-middle	32.10	71	28.99	56	35.98	73	50.35	114	56.35	119																												

TABLE SSA-10

S&E articles in health sciences, by region, country, or economy: 2000–18

(Number)

Region, country, or economy	Economies by income status	2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018	
		Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count	Fractional count	Whole count		
Marshall Islands	Upper-middle	1.00	1	0.58	2	1.00	1	2.33	3	0.00	0	3.33	4	1.29	3	0.79	3	0.00	0	1.05	3	0.50	1	0.41	2	0.00	0	1.00	1	0.60	2	1.00	1	0.33	2	0.28	2	0.29	3
Micronesia, Federated States of	Lower-middle	2.00	2	0.00	0	0.00	0	0.53	1	0.20	0	3.63	5	0.00	0	1.82	7	0.27	2	0.38	3	6.62	14	0.44	3	0.42	2	1.03	3	0.77	2	1.12	5	1.64	12	3.01	17	0.14	12
Nauru	Upper-middle	0.00	0	0.33	1	0.00	0	0.00	0	0.23	1	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.74	3	0.50	1	0.34	2	0.33	2	0.33	2	0.25	1	0.00	0	0.00	0
New Zealand	High	1284.59	1,548	1237.69	1,464	1278.23	1,550	1224.52	1,625	1465.57	1,903	1531.24	2,065	1609.00	2,144	1662.56	2,328	1708.03	2,400	1836.53	2,624	1912.82	2,734	2147.53	3,044	2260.67	3,226	2130.48	3,299	2179.46	3,375	2220.58	3,530	2144.69	3,464	2241.42	3,739	2228.91	3,794
Niue	na	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	1.08	2	0.00	0	1.61	3	0.00	0	0.00	1	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Palau	High	2.00	2	0.00	0	1.17	2	1.25	2	0.40	1	7.00	7	1.83	3	2.43	6	0.85	3	0.21	2	1.39	2	0.67	3	0.00	0	1.93	6	0.00	0	0.70	2	1.23	3	2.40	8	0.58	3
Samoa	Upper-middle	3.67	4	4.00	4	0.67	3	1.00	1	0.33	2	0.00	0	3.42	5	0.61	2	0.61	5	1.11	5	0.00	0	2.64	7	0.60	2	1.17	4	3.08	4	3.61	7	2.55	6	4.37	13	2.95	9
Solomon Islands	Lower-middle	1.72	5	1.23	2	0.13	1	0.20	1	1.48	4	0.33	1	0.77	2	1.23	5	0.98	4	1.04	2	2.47	10	3.36	8	3.05	8	0.93	5	3.43	10	5.45	16	6.25	24	3.48	13	6.97	26
Tonga	Upper-middle	2.00	2	0.75	2	0.50	1	0.57	3	2.10	3	0.14	1	3.20	4	1.14	4	0.39	3	1.50	5	0.22	1	1.21	3	0.77	3	1.09	4	0.48	3	0.25	3	0.24	3	1.92	6	0.31	3
Tuvalu	Upper-middle	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.99	2	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.04	1	0.00	0	0.38	2	0.09	1	0.00	0	0.40	1	0.14	1
Vanuatu	Lower-middle	2.00	3	2.00	2	3.75	4	5.56	8	3.50	4	4.75	6	2.50	3	0.94	3	1.20	2	0.23	2	2.22	6	3.22	9	0.18	1	1.46	8	4.55	15	2.53	8	1.82	5	1.36	6	0.83	6
Unassigned	na	3365.86	7,467	2051.84	4,848	2096.17	4,879	5635.25	11,658	3671.25	8,675	3817.44	8,865	3991.88	9,213	4523.20	10,297	4506.93	10,784	4363.97	9,433	6723.46	12,295	6666.48	11,997	6299.98	11,171	3520.38	6,947	1865.99	4,732	1374.44	4,184	2287.45	6,413	2679.90	8,515	3075.27	10,889

na = not applicable; country data do not exist.

EU = European Union.

^a Beginning in 2006, Serbia and Montenegro represented individual countries.^b Serbia and Montenegro represented a single country for data purposes from 1992 to 2006. Its economic status is that of 2005.^c 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 either on a fractional- or whole-count basis. Fractional counts of articles are those produced by authors from different countries, where each country receives fractional credit on the basis of the proportion of its participating authors. For the fractional-count basis, the sum of the regions, countries, or economies may not add to the world total because of rounding. 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 fractional or whole counts for publications that cannot be assigned to a region, country, or economy. For more information on the 2019 World Bank Country and Lending Groups classification of income groups, see <https://datahelpdesk.worldbank.org/knowledgebase/articles/906519-world-bank-country-and-lending-groups>, accessed June 2019.

Source(s)

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