

Table SPBS-12

S&E articles in mathematics and statistics, fractional 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
Paraguay	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.17	0.50	0.00	0.25	0.00	1.00	1.00	8.85	1.17	1.33	0.87
Peru	0.25	1.00	0.00	2.00	1.00	1.00	0.58	1.58	1.38	2.00	2.58	3.18	0.96	3.83	4.17	2.08	5.17	3.46	6.53	8.23	14.37	10.85	13.02	12.70	14.38
Suriname	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.50	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	1.00	0.00
Uruguay	7.33	12.50	4.17	6.83	6.42	6.75	13.00	10.00	4.53	7.47	5.58	11.66	10.88	17.73	15.67	14.00	15.46	13.79	23.34	25.91	26.59	38.54	29.35	35.57	25.86
Venezuela	52.12	34.04	31.25	36.40	45.08	34.17	43.92	54.47	37.99	39.35	39.63	46.69	74.08	41.20	36.67	39.40	36.38	46.97	34.68	40.01	34.73	36.39	25.10	16.35	30.85
Europe	12,672.57	12,743.64	13,186.08	13,396.01	14,077.40	13,866.96	14,049.63	14,055.26	14,888.50	15,913.73	15,956.65	16,893.94	18,182.88	18,699.81	18,993.88	20,428.02	21,594.04	22,208.34	22,703.23	23,015.65	22,377.81	22,250.41	22,683.20	23,191.78	25,502.63
EU-27 and UK ^a	9,686.99	9,857.06	9,985.18	10,195.56	11,191.44	10,341.24	10,469.35	10,753.38	11,218.29	11,917.60	12,636.35	13,333.25	14,356.22	14,554.88	14,570.98	15,563.45	16,834.29	17,035.47	17,215.30	17,406.94	16,638.40	16,398.34	16,369.90	16,519.53	18,336.03
UK	2,504.79	2,161.73	2,130.49	2,113.26	1,791.09	1,528.06	1,356.42	1,356.10	1,382.13	1,516.86	1,619.41	1,671.42	1,706.45	1,742.56	1,807.90	1,881.58	1,839.18	1,993.55	2,022.12	2,001.80	2,041.09	2,058.90	2,101.43	2,135.02	2,241.67
EU-27 ^b	7,182.20	7,695.34	7,854.69	8,082.30	9,400.35	8,813.18	9,112.93	9,397.28	9,836.16	10,400.74	11,016.95	11,661.82	12,649.78	12,812.32	12,763.08	13,681.88	14,995.11	15,041.91	15,193.18	15,405.15	14,597.31	14,339.44	14,268.47	14,384.50	16,094.35
Austria	180.88	158.33	136.73	153.24	197.06	203.65	179.22	208.15	230.86	261.03	284.55	280.84	338.96	320.79	332.96	348.18	419.47	418.66	427.90	441.26	455.82	476.21	463.25	493.05	549.57
Belgium	259.03	223.79	229.96	252.71	280.23	254.69	248.35	254.27	300.83	312.92	323.38	341.76	399.90	365.78	365.98	367.65	372.20	381.32	363.43	357.13	374.21	354.65	320.30	345.74	376.42
Bulgaria	84.95	81.28	86.88	88.25	74.79	85.66	63.04	60.59	64.75	75.07	71.70	93.17	97.87	94.53	107.58	86.80	128.85	121.17	134.83	108.32	100.12	125.39	115.00	108.98	170.83
Croatia	43.33	38.99	54.83	43.00	63.25	59.58	61.42	56.53	64.15	92.42	80.92	106.94	113.52	110.63	127.23	127.48	150.45	118.40	143.18	160.18	154.99	117.06	147.95	146.65	130.89
Cyprus	11.00	10.50	10.33	6.42	12.50	15.67	9.50	12.25	20.92	18.50	21.55	30.33	28.59	33.83	41.46	29.95	29.08	34.50	28.50	43.13	28.37	30.62	27.66	30.41	31.46
Czechia	124.11	156.77	139.50	147.51	211.48	190.15	206.57	238.93	228.30	217.32	260.70	365.08	331.23	307.53	384.01	365.33	417.35	476.45	478.85	565.03	463.21	416.68	400.98	402.79	443.46
Denmark	103.92	100.07	111.44	122.80	120.32	117.39	124.83	135.74	126.69	126.78	124.01	119.23	116.46	119.16	137.89	131.28	141.58	131.47	154.68	159.17	158.49	176.70	151.28	162.98	174.09
Estonia	13.79	19.42	13.17	13.17	14.17	15.83	18.83	17.75	22.50	28.25	24.92	49.00	33.17	40.45	38.12	36.38	35.04	31.32	44.99	24.19	27.77	40.30	29.45	31.53	37.76
Finland	118.42	105.77	94.74	118.83	129.52	111.53	114.62	129.42	177.18	115.24	141.74	190.74	192.33	172.08	195.73	204.01	199.98	228.22	237.82	235.30	247.68	219.72	181.67	180.06	206.36
France	1,340.18	1,739.17	1,832.06	1,874.35	2,138.53	1,905.57	2,083.37	2,042.00	2,135.51	2,188.47	2,334.29	2,385.24	2,500.55	2,544.92	2,624.50	2,706.43	2,911.27	2,854.00	2,858.06	2,840.69	2,754.05	2,653.51	2,557.26	2,550.39	2,705.60
Germany	1,741.54	1,607.96	1,758.80	1,649.08	1,964.39	1,580.63	1,587.99	1,646.56	1,665.25	1,763.82	1,831.05	1,902.20	2,066.78	2,061.82	2,003.81	2,289.59	2,484.16	2,575.26	2,557.15	2,666.88	2,597.23	2,545.70	2,630.45	2,631.17	2,873.35
Greece	190.53	205.46	202.83	190.38	219.51	208.61	243.77	256.35	286.64	295.22	271.04	294.62	361.00	326.66	306.13	295.19	347.93	336.19	319.13	316.79	269.17	280.28	270.97	280.39	310.67
Hungary	176.49	172.70	213.26	199.83	248.58	241.61	238.61	220.28	225.03	208.95	237.44	227.48	279.62	277.76	250.88	295.72	300.86	305.39	281.30	311.47	319.07	279.77	316.68	276.43	313.65
Ireland	62.25	63.58	92.32	84.26	86.13	73.20	69.16	77.33	79.70	90.25	114.34	99.46	112.45	123.38	119.20	149.63	127.09	126.61	117.24	99.84	100.87	118.95	112.06	146.16	163.73
Italy	927.78	998.50	963.70	1,061.46	1,139.47	1,308.72	1,268.99	1,341.38	1,403.48	1,518.40	1,585.59	1,676.21	1,775.97	1,863.54	1,724.89	1,922.08	2,101.24	2,133.76	2,160.13	2,253.31	2,081.65	2,129.94	2,126.85	2,132.00	2,525.16
Latvia	12.50	10.50	13.17	10.00	14.17	12.50	12.00	14.17	5.92	15.25	7.50	34.67	16.82	12.33	13.01	23.00	23.47	21.67	13.24	30.25	24.33	16.37	17.83	11.17	11.42
Lithuania	31.25	68.92	49.92	62.83	54.28	59.00	78.79	77.00	65.85	73.92	75.50	107.32	85.81	67.13	63.54	68.42	81.75	55.53	61.22	66.41	55.69	72.55	49.49	81.47	87.44
Luxembourg	1.00	1.00	5.00	3.00	1.50	2.50	0.50	1.53	3.17	1.17	3.54	3.00	8.10	11.82	17.92	27.00	20.41	32.69	38.42	42.14	30.45	27.79	44.93	43.87	43.69
Malta	0.50	0.00	1.00	0.00	0.50	0.50	1.25	0.50	0.00	2.17	1.00	6.75	1.67	2.50	1.67	1.00	5.36	4.20	8.67	5.33	7.17	8.23	6.14	2.33	9.92
Netherlands	340.78	330.57	296.80	265.61	344.97	297.10	293.06	339.18	277.88	379.01	356.84	347.01	380.08	375.17	340.14	345.49	390.69	382.21	388.17	384.31	394.56	357.88	370.82	403.18	415.56
Poland	403.03	418.19	399.22	391.05	495.82	535.97	526.48	579.81	578.30	620.17	623.26	702.36	753.55	832.63	740.41	860.45	1,065.37	1,011.45	1,029.36	1,152.11	1,045.95	985.99	1,069.53	1,026.15	1,023.74
Portugal	92.65	89.76	85.14	98.03	135.65	171.18	172.48	166.43	216.50	229.53	259.08	232.53	313.52	351.76	373.49	426.07	482.85	428.96	483.73	427.88	358.14	391.49	353.23	351.65	363.79
Romania	100.43	116.42	95.88	120.70	138.53	134.19	193.99	194.93	188.57	233.75	248.55	263.66	442.74	517.04	516.52	587.08	597.14	618.14	562.53	548.20	494.16	480.74	461.89	447.98	585.37
Slovakia	48.42	58.63	43.33	60.58	61.00	49.92	58.83	73.62	50.83	55.38	58.68	110.13	103.48	90.87	89.36	121.33	120.80	126.74	108.88	134.89	143.53	90.12	81.37	96.90	121.60
Slovenia	44.92	40.83	53.57	47.75	88.44	62.08	83.73	64.70	78.11	106.26	102.66	109.96	105.80	97.67	107.25	127.82	133.29	138.77	133.51	123.39	120.29	117.36	129.96	139.77	134.63
Spain	547.35	653.23	629.52	771.81	943.81	884.31	922.05	942.88	1,065.16	1,066.44	1,234.29	1,286.69	1,390.91	1,382.09	1,415.46	1,442.88	1,594.57	1,625.46	1,679.61	1,528.49	1,413.83	1,443.79	1,432.63	1,473.78	1,881.41

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Sweden	181.19	225.02	241.60	245.62	221.78	231.43	251.50	245.00	274.09	305.08	338.86	295.44	298.91	308.47	323.96	295.64	312.87	323.38	367.64	379.07	376.52	381.66	398.82	387.53	402.80
Other Europe	2,985.58	2,886.58	3,200.90	3,200.45	2,885.95	3,525.73	3,580.29	3,301.88	3,670.21	3,996.13	3,320.30	3,560.70	3,826.66	4,144.93	4,422.91	4,864.57	4,759.75	5,172.87	5,487.93	5,608.70	5,739.42	5,852.07	6,313.29	6,672.26	7,166.60
Other Europe, 2020 ^b	5,490.37	5,048.31	5,331.39	5,313.71	4,677.04	5,053.79	4,936.70	4,657.98	5,052.34	5,512.99	4,939.70	5,232.12	5,533.11	5,887.49	6,230.81	6,746.15	6,598.93	7,166.43	7,510.06	7,610.50	7,780.51	7,910.97	8,414.73	8,807.28	9,408.28
Albania	0.00	0.00	0.00	0.50	0.00	0.00	2.00	0.50	0.50	0.00	0.00	0.83	2.00	0.50	2.87	7.67	7.00	11.17	9.58	6.92	4.25	4.28	9.90	13.45	12.32
Andorra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42
Belarus	65.25	84.83	80.92	73.27	85.04	73.58	62.98	71.83	66.42	78.35	79.07	78.64	69.17	77.42	78.03	78.43	77.43	65.08	70.42	79.13	89.28	100.67	101.95	96.32	109.42
Bosnia and Herzegovina	1.00	0.83	1.50	1.00	4.67	0.83	1.33	1.67	1.17	4.17	8.33	10.50	6.42	6.67	13.75	10.57	11.31	14.37	19.20	20.42	14.51	25.03	25.68	32.89	45.10
Holy See (Vatican City)	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00
Iceland	1.67	5.47	3.50	1.50	1.42	4.50	4.17	3.34	3.92	3.25	3.50	5.00	7.13	5.16	10.95	6.17	7.17	2.95	10.42	4.70	11.90	3.33	7.08	7.55	7.10
Kosovo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.25	4.00	10.83	7.83	7.53	12.62	11.45	10.50	7.98	16.23	15.88	20.52	21.79
Liechtenstein	1.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Moldova	13.75	7.33	9.83	6.00	5.50	7.33	3.50	4.67	3.33	8.50	5.67	4.17	5.83	8.92	7.00	16.08	29.83	22.33	26.41	23.25	15.12	18.58	15.50	21.75	18.92
Monaco	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	1.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.33	1.00	0.00
Montenegro ^c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.75	2.00	6.75	9.83	18.67	19.25	22.17	13.90	25.42	15.72	18.67	16.83	15.50	16.48
North Macedonia	4.75	4.50	2.00	4.33	3.00	6.75	8.33	7.33	4.00	2.96	5.83	6.23	6.17	7.50	6.50	12.57	11.37	7.83	12.17	12.98	18.25	14.93	10.67	16.73	16.07
Norway	95.57	77.07	113.13	108.44	91.98	104.00	106.93	106.51	112.80	121.33	148.85	163.81	162.98	189.96	164.14	197.79	202.91	227.44	222.83	203.87	222.94	191.13	210.11	219.02	234.36
Russia	2,248.47	2,127.39	2,201.25	2,326.10	1,937.75	2,467.14	2,569.72	2,335.64	2,499.53	2,691.21	1,821.47	1,947.09	2,133.83	2,222.73	2,398.53	2,430.15	2,331.20	2,406.49	2,735.24	3,051.40	3,114.34	3,172.37	3,559.43	3,632.31	3,850.38
San Marino	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.33	0.00	0.00	0.17
Serbia ^c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	193.83	175.95	211.37	235.82	282.38	271.14	250.16	236.57	234.81	219.83	213.83	225.28	225.20	233.31
Serbia and Montenegro ^d	51.78	56.32	73.42	69.55	57.58	66.17	86.75	70.35	88.43	100.47	124.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Switzerland	175.62	173.67	189.58	185.05	214.84	187.72	223.54	226.55	233.32	262.86	283.07	281.02	303.58	305.28	291.36	364.00	369.40	433.83	466.97	494.08	471.95	482.44	473.25	466.09	524.99
Turkey	110.77	148.17	128.00	118.58	175.08	155.09	198.70	235.40	356.95	377.42	499.54	497.25	558.16	690.62	788.80	927.83	906.40	1,214.78	1,142.29	998.12	1,086.07	1,058.64	1,169.57	1,372.86	1,555.99
Ukraine	215.96	201.00	397.78	306.12	308.69	452.60	312.07	238.08	299.86	345.46	340.00	366.56	387.20	407.81	404.49	504.43	507.30	481.34	510.25	441.88	447.28	531.59	471.83	530.82	519.79
Middle East	610.48	634.63	636.86	657.60	670.72	744.11	786.12	831.65	980.11	1,077.58	1,320.18	1,356.18	1,551.98	1,593.45	1,809.04	2,379.05	2,710.61	2,882.65	3,207.26	2,929.63	3,103.55	3,432.09	3,912.17	4,413.63	5,204.63
Armenia	16.00	7.42	11.67	9.50	7.25	9.00	21.08	14.08	26.08	16.23	20.33	23.67	20.83	46.75	51.50	59.58	48.58	55.50	38.17	57.92	52.83	46.98	64.28	71.50	55.50
Azerbaijan	13.00	12.42	12.42	13.58	11.75	16.33	18.00	15.75	16.00	20.39	28.17	27.50	36.50	46.53	59.67	52.46	58.83	53.00	64.57	90.54	90.58	111.97	127.53	111.85	133.44
Bahrain	7.00	4.00	5.50	4.33	5.67	4.25	3.00	3.50	3.17	5.25	4.25	3.50	8.00	1.00	11.00	1.58	8.17	6.50	3.92	3.70	2.33	3.00	3.81	13.56	12.58
Gaza Strip ^e	0.00	0.00	0.00	1.00	0.00	0.00	2.00	1.50	0.00	2.50	2.25	0.70	2.25	2.25	1.33	5.50	2.83	2.60	2.58	1.33	1.50	5.75	5.78	5.67	15.28
Georgia	52.67	63.83	57.25	50.03	75.46	58.92	63.96	66.05	90.42	80.33	85.83	65.96	112.43	115.00	59.19	170.16	157.23	192.84	130.42	152.66	213.00	150.68	195.65	207.28	189.19
Iran	29.42	44.88	65.25	84.63	86.87	107.71	129.08	147.93	230.47	342.49	494.43	556.83	598.03	693.42	809.10	1,180.46	1,316.91	1,336.52	1,535.50	1,386.40	1,502.81	1,784.58	1,923.97	2,021.49	2,245.80
Iraq	3.00	1.50	0.00	0.50	1.50	2.25	0.50	1.00	1.20	1.58	8.00	8.67	15.46	2.38	12.33	12.94	26.75	27.84	31.05	25.20	33.22	43.71	63.31	137.79	223.99
Israel	362.07	320.38	328.86	360.11	322.36	365.02	332.62	343.50	354.51	324.06	379.78	401.17	416.04	374.73	395.70	396.54	401.57	422.60	484.12	386.06	411.67	435.99	423.13	434.05	460.01
Jordan	8.58	18.33	6.33	12.00	15.46	18.08	32.83	31.67	50.02	57.08	57.46	59.85	80.45	61.16	75.24	90.50	120.46	90.67	93.32	74.03	85.07	100.30	145.69	184.77	215.24
Kuwait	35.92	39.17	31.83	26.33	37.00	38.42	30.92	29.42	20.58	22.23	24.17	17.42	26.42	17.92	30.00	25.75	23.67	39.17	44.55	33.08	40.71	37.85	47.39	51.78	49.47
Lebanon	6.58	9.50	10.67	7.00	10.00	12.50	9.33	15.08	12.20	10.53	17.08	15.58	13.42	18.17	17.12	19.91	30.07	32.80	28.34	34.65	26.18	29.58	53.13	59.66	65.03

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S&E articles in mathematics and statistics, fractional 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.54	0.25	0.00	0.00	0.00
Libya	0.50	1.75	1.25	3.50	1.50	0.00	0.50	1.75	1.00	2.00	1.83	0.58	3.83	2.67	4.00	1.46	3.29	0.92	2.03	4.50	4.25	1.00	4.63	7.96	3.63
Madagascar	2.00	0.00	0.25	0.00	0.00	0.00	0.00	0.50	1.50	2.50	0.50	1.33	1.92	1.33	0.00	0.67	1.50	1.50	1.50	1.00	1.54	0.05	1.67	2.92	5.00
Malawi	0.00	2.00	1.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.50	0.00	0.00	1.25	0.00	0.00	0.00	0.33	0.38	1.21	1.21	1.33	1.16	1.00	0.92
Mali	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	1.00	0.00	1.70	2.67	0.50	0.00	1.67	1.50	1.50	1.33	1.00	0.50	4.42	2.28
Mauritania	0.00	0.50	0.50	0.33	1.33	0.83	0.67	1.50	2.42	1.71	2.25	2.17	0.00	0.00	0.00	0.50	0.50	1.00	0.50	0.00	1.25	1.00	0.75	2.83	4.00
Mauritius	3.00	2.75	1.33	0.00	2.13	4.17	3.83	1.50	0.00	1.00	4.00	0.50	5.83	7.33	4.90	2.00	5.67	4.83	1.58	3.00	4.75	7.33	5.94	11.47	6.42
Morocco	31.67	49.00	40.58	71.76	80.52	106.98	96.87	115.38	102.71	125.92	117.50	100.90	126.84	128.13	140.59	152.84	127.01	155.02	176.44	200.43	239.15	227.88	335.41	353.98	668.20
Mozambique	0.00	0.50	0.00	0.00	2.00	0.00	1.33	1.00	1.33	0.33	0.53	0.00	0.50	0.00	0.00	0.00	1.00	0.30	1.13	1.17	0.53	2.08	2.12	1.35	2.12
Namibia	0.00	0.25	1.00	0.00	0.50	0.00	0.00	1.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	1.00	1.25	2.88	1.46	3.17	2.13	2.50	2.33	1.50	2.13
Niger	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.33	1.33	0.00	0.25	0.00	0.50	1.67	1.67	0.83	2.50	1.00	2.42	1.50	6.08
Nigeria	12.33	17.25	10.29	21.42	16.67	18.25	18.50	14.58	12.67	20.25	16.08	17.67	30.92	36.00	36.50	63.67	52.83	43.88	73.28	61.52	64.87	82.61	103.91	130.83	188.52
Rwanda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	1.00	0.83	1.25	0.00	1.54	0.89	0.54	2.00
São Tomé and Príncipe	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Senegal	0.00	2.00	1.25	0.00	1.00	3.00	0.67	4.20	3.50	3.75	5.80	4.29	6.90	5.42	7.33	11.46	9.13	12.39	15.10	19.27	24.54	17.98	22.72	25.88	46.67
Seychelles	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sierra Leone	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.20	0.00	0.00
Somalia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
South Africa	85.77	85.22	84.11	107.75	90.95	111.88	108.99	104.96	101.70	121.69	129.91	163.58	160.26	178.38	155.63	195.57	227.46	280.20	335.00	266.35	262.42	281.38	280.47	308.46	367.55
South Sudan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00
Sudan	0.50	0.50	0.50	1.00	0.00	0.00	0.00	0.00	0.33	0.25	1.00	0.00	1.00	0.17	2.33	0.50	1.88	4.35	2.31	0.96	2.56	2.08	4.97	4.96	8.43
Tanzania	0.00	0.00	0.00	2.07	0.50	2.00	1.50	1.00	0.00	0.00	1.00	1.33	1.00	2.13	0.70	0.83	0.67	1.67	1.55	2.68	5.33	4.73	3.13	11.50	13.70
Togo	0.00	0.00	0.00	0.00	0.50	0.00	0.00	1.00	1.25	0.00	0.00	0.33	1.00	1.00	0.00	1.33	0.00	0.45	1.00	0.92	0.00	0.00	0.50	2.17	0.95
Tunisia	6.75	19.83	33.83	39.58	57.98	62.50	74.33	75.76	73.30	98.01	93.79	127.66	140.93	151.00	185.18	193.92	197.34	203.11	212.37	222.96	255.41	282.51	277.72	303.30	353.20
Uganda	0.00	0.00	0.50	0.33	0.00	1.58	1.33	0.00	0.00	1.83	0.00	3.23	3.00	0.17	2.00	0.00	1.33	2.75	2.00	1.08	2.98	4.47	6.29	5.38	11.45
Zambia	0.00	0.70	0.00	1.00	0.50	0.50	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	1.00	0.38	0.00	0.00	0.38	0.61	0.75	1.00	0.50	2.40	2.00
Zimbabwe	1.00	4.33	5.75	9.00	1.50	2.75	1.50	0.25	1.33	2.25	1.00	2.92	3.03	3.88	0.70	3.42	2.50	2.00	4.00	4.21	3.75	6.90	5.25	5.85	7.33
Asia	3,435.04	3,672.72	3,771.69	3,953.84	4,267.75	4,704.79	4,838.55	5,225.68	5,766.60	6,223.16	7,328.39	8,437.65	9,684.77	11,552.80	11,492.71	12,711.26	14,577.68	18,223.45	19,495.85	17,397.39	16,459.90	18,540.32	19,264.80	21,622.75	26,725.37
Afghanistan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	23.44	13.97	20.41	25.18	24.88
Bangladesh	4.25	3.50	5.92	3.83	6.42	6.17	11.17	8.17	8.50	8.17	5.50	4.67	14.17	16.08	18.08	20.98	16.38	18.08	23.11	23.42	20.93	67.98	17.33	41.87	51.32
Bhutan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Brunei	0.00	1.00	1.00	3.00	4.25	3.38	5.75	4.33	3.75	3.50	1.00	5.08	7.17	2.83	1.33	4.00	4.75	4.58	4.87	1.32	3.75	2.58	1.45	1.67	1.19
Burma	0.00	0.00	0.50	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	1.00	0.00	0.58	0.20	0.67	0.00	0.00	0.50	1.53	0.33	0.08
Cambodia	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.10	0.00	0.00	0.20	0.20	0.79	0.89	0.00
China	1,184.71	1,257.90	1,428.82	1,491.57	1,588.78	1,937.03	1,943.38	2,158.67	2,671.14	2,924.03	3,700.38	4,433.56	5,205.50	6,696.21	6,434.98	7,024.62	8,391.83	11,290.27	12,194.35	10,346.19	9,679.49	10,348.59	11,390.45	12,319.96	15,390.05
India	462.32	485.07	387.11	430.72	454.51	445.65	515.39	519.47	529.17	607.36	683.79	829.12	968.22	1,060.07	1,141.91	1,370.63	1,444.27	1,643.62	1,914.01	2,044.24	2,039.58	3,099.12	2,790.96	3,473.26	4,117.44

Table SPBS-12

S&E articles in mathematics and statistics, fractional 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tuvalu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vanuatu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
Unassigned	150.90	134.32	134.04	152.74	123.50	223.79	59.70	117.39	383.71	384.96	228.82	225.14	151.17	86.69	74.32	68.15	33.98	40.79	59.07	41.97	25.67	40.31	44.75	53.12	105.55

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 a selection of conference proceedings and peer-reviewed journals in S&E fields from Scopus. Articles are classified by their year of publication and are assigned to a region, country, or economy on the basis of the institutional address(es) of the author(s) listed in the article. Articles are credited on a fractional count basis (i.e., for articles produced by authors from different countries, each country receives fractional credit on the basis of the proportion of its participating authors). Data are not directly comparable to *Science and Engineering Indicators 2020*; see the Technical Appendix for information on data filters. The sum of the fractional count for regions, countries, and economies may not add to the world total because of rounding. Some publications have incomplete address information for coauthored publications in the Scopus database. The Unassigned category count is the sum of fractional 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