

Appendix table 5-30

**S&E articles in chemistry, by region/country/economy: 1997–2011**

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
World	72,073.0	73,538.0	74,803.0	75,679.0	76,563.0	78,072.0	81,413.0	87,695.0	89,757.0	93,709.0	95,693.0	98,587.0	102,857.0	107,538.0	115,188.0
North America															
Canada	1,906.7	1,914.8	1,792.8	1,828.8	1,789.2	1,754.3	1,911.7	2,042.6	2,178.4	2,342.8	2,277.6	2,310.4	2,444.3	2,432.4	2,600.5
Mexico	256.9	270.5	294.4	280.3	333.0	324.4	349.3	451.7	488.8	391.5	485.3	455.7	491.3	507.1	499.0
United States	14,537.0	14,424.2	14,236.3	14,378.5	14,308.2	14,469.3	15,298.2	15,949.9	16,204.4	16,594.8	15,780.7	16,155.6	16,430.8	17,447.6	17,461.3
Central America/Caribbean															
Antigua and Barbuda	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Bahamas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.1
Barbados	1.6	4.9	1.3	3.0	2.5	0.5	4.3	2.8	2.5	2.5	1.3	2.0	0.0	0.9	1.8
Belize	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Costa Rica	8.8	7.6	7.7	12.8	10.0	7.8	1.5	4.3	3.3	1.4	4.1	5.5	1.6	2.6	4.3
Cuba	30.1	43.3	54.3	51.0	45.8	33.8	35.0	39.4	51.0	46.6	41.8	38.1	28.2	32.3	28.6
Dominica	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dominican Republic	0.3	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0
El Salvador	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.6
Grenada	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Guatemala	0.0	0.0	0.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Haiti	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
Honduras	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jamaica	12.5	6.3	6.7	7.0	10.2	13.0	8.8	7.5	9.2	4.4	7.6	3.3	10.0	6.3	6.6
Nicaragua	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.8
Panama	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.6	0.8	1.4	0.7	0.9	0.9	0.0	0.5
St. Kitts and Nevis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
St. Lucia	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
St. Vincent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trinidad and Tobago	1.0	3.2	4.2	3.4	4.6	3.8	1.2	3.4	5.0	0.0	2.3	2.3	2.3	2.7	5.2
West Indies Associated States	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
South America															
Argentina	319.4	343.2	372.8	361.7	383.8	397.6	393.2	364.8	436.1	406.4	392.6	490.1	474.3	497.8	491.8
Bolivia	0.5	0.5	0.3	1.0	1.2	0.6	0.7	1.6	0.3	0.5	1.4	3.1	0.8	1.0	2.1
Brazil	541.9	581.3	692.7	860.2	983.9	1,102.3	1,082.7	1,257.8	1,415.6	1,483.0	1,398.2	1,560.8	1,549.9	1,497.5	1,622.6
Chile	161.7	155.9	157.6	184.6	187.6	192.4	224.9	192.2	208.6	191.3	187.7	191.8	213.9	215.6	235.8
Colombia	17.7	26.6	22.6	26.6	27.5	36.9	25.5	41.5	46.9	47.7	48.2	86.0	85.4	103.0	98.1
Ecuador	0.5	0.2	0.8	1.0	0.0	2.3	4.0	0.6	0.8	1.6	2.3	2.0	1.6	2.6	1.0
Guyana	0.0	0.0	0.0	0.0	1.5	2.5	1.0	1.0	6.0	1.0	2.0	1.0	2.0	3.0	1.0
Paraguay	0.0	0.0	0.5	0.7	0.5	0.0	0.3	0.0	0.0	0.1	0.0	0.0	0.5	3.0	0.4
Peru	1.0	2.7	2.0	0.8	2.9	2.7	7.2	1.3	7.7	1.7	1.7	3.5	4.3	2.9	4.5
Suriname	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
Uruguay	15.1	20.3	20.0	15.3	13.8	9.7	13.7	18.8	16.2	17.3	27.6	27.0	27.9	27.1	45.5
Venezuela	101.9	90.2	91.7	98.4	90.0	104.5	110.8	100.5	104.8	80.1	82.5	94.0	77.7	75.9	68.7

**S&E articles in chemistry, by region/country/economy: 1997–2011**

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Europe															
European Union															
Austria	439.5	419.8	422.3	413.7	461.3	397.4	431.5	493.0	455.0	442.0	473.3	480.2	518.4	524.3	540.0
Belgium	753.2	639.1	666.4	656.2	648.6	699.0	697.7	766.7	790.0	701.6	753.0	731.5	766.7	802.7	867.7
Bulgaria	265.7	237.8	224.8	237.1	189.5	211.9	200.7	217.5	185.5	239.3	213.4	183.2	174.9	168.1	162.6
Cyprus	0.7	3.3	3.8	4.9	8.6	13.0	5.3	15.2	15.9	20.0	25.3	19.2	37.8	27.1	40.3
Czech Republic	636.9	644.7	598.7	631.5	585.1	642.9	612.4	680.9	675.5	825.4	769.4	792.7	842.0	910.1	1,040.1
Denmark	345.9	369.5	355.8	355.6	384.6	334.8	366.1	366.2	405.8	355.1	355.1	356.8	417.3	429.0	495.0
Estonia	37.9	42.0	34.8	33.9	32.0	35.4	39.1	48.9	44.5	56.6	44.2	49.0	54.6	58.9	53.8
Finland	339.2	327.4	378.1	379.0	382.8	400.4	378.3	420.0	388.8	400.8	401.6	385.9	410.8	431.0	423.8
France	4,252.8	4,589.1	4,395.5	4,012.8	3,964.9	3,907.6	3,967.2	3,967.9	3,981.8	4,068.4	4,095.2	4,289.5	4,254.9	4,398.8	4,441.5
Germany	6,333.7	6,480.1	6,280.0	5,921.1	5,549.7	5,325.6	5,412.1	5,724.9	5,743.1	5,723.5	5,729.0	5,984.8	6,158.9	6,482.6	6,693.2
Greece	323.3	322.9	327.3	338.6	414.8	435.0	430.4	464.3	480.7	570.4	533.9	505.1	519.9	491.5	491.1
Hungary	610.0	593.2	618.0	585.6	573.9	526.2	494.9	500.3	521.5	519.0	469.6	475.9	432.1	399.4	417.8
Ireland	133.6	148.6	135.9	120.9	142.7	151.1	178.9	180.6	199.3	206.8	243.6	275.5	277.9	385.1	381.1
Italy	2,286.7	2,419.7	2,498.3	2,459.2	2,665.9	2,647.3	2,747.5	2,784.1	2,907.8	2,772.9	2,933.9	2,863.1	2,957.4	2,947.5	3,094.6
Latvia	56.4	51.8	58.2	50.1	38.6	50.6	45.6	45.5	33.1	25.4	43.3	30.7	37.9	29.7	37.1
Lithuania	44.9	77.2	49.7	73.1	48.6	68.9	47.5	66.4	56.0	81.5	68.6	64.8	64.6	57.0	62.9
Luxembourg	1.8	2.3	1.0	0.0	0.5	2.2	1.8	1.8	3.0	4.1	6.0	9.8	10.6	12.3	24.0
Malta	1.8	2.0	0.0	0.0	2.0	2.8	1.0	0.5	1.8	0.3	1.5	0.0	0.0	0.0	0.0
Netherlands	1,163.4	1,107.2	1,101.1	1,017.4	1,095.5	1,016.5	1,034.3	1,114.6	1,172.3	1,073.1	990.8	955.4	1,111.3	1,115.6	1,112.0
Poland	1,251.4	1,430.6	1,464.6	1,510.3	1,474.5	1,610.6	1,673.5	1,751.4	1,787.8	1,702.7	1,815.1	1,830.2	1,774.0	1,629.2	1,712.5
Portugal	258.5	266.5	308.2	338.2	431.9	417.7	416.1	509.2	572.1	627.3	654.2	728.8	754.5	870.3	847.6
Romania	346.0	332.0	347.5	329.3	335.4	349.4	303.5	294.0	313.1	324.4	361.2	403.4	415.8	437.6	483.4
Slovakia	283.1	415.1	233.9	235.5	204.6	189.8	179.5	207.3	203.0	204.3	200.2	193.9	192.7	190.8	303.3
Slovenia	142.7	118.3	116.7	133.8	140.6	152.1	151.9	143.8	180.3	146.5	195.2	195.1	199.7	175.3	181.7
Spain	2,457.0	2,487.9	2,695.2	2,750.2	2,880.6	3,023.5	2,871.6	3,150.2	3,292.7	3,366.1	3,647.1	3,320.2	3,468.5	3,625.6	3,766.3
Sweden	802.2	847.1	764.1	790.7	855.2	817.9	851.3	935.8	863.5	920.4	842.2	758.9	778.9	835.0	815.1
United Kingdom	4,426.2	4,294.8	4,188.6	4,255.3	4,020.9	3,976.4	3,899.6	3,962.4	3,741.2	3,942.3	3,729.5	3,695.3	3,786.2	4,110.4	4,104.0
Other Europe															
Albania	2.3	1.3	1.7	1.7	2.2	5.3	1.0	0.8	1.2	0.7	0.0	0.0	0.0	0.5	0.5
Andorra	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Belarus	151.1	137.3	153.0	150.3	143.5	140.8	139.0	149.8	119.2	145.5	106.4	106.0	100.0	107.3	82.2
Bosnia and Herzegovina	1.5	1.0	0.0	2.0	0.3	0.5	1.6	0.8	1.8	1.2	2.9	0.0	1.0	0.5	1.9
Croatia	148.0	138.5	165.3	147.6	135.6	140.5	146.5	158.5	184.5	164.0	178.7	178.0	185.5	171.3	176.1
Iceland	6.4	7.8	4.8	7.5	5.8	8.2	6.5	6.7	1.3	4.4	9.0	8.2	8.1	12.1	10.4
Kosovo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Liechtenstein	5.3	2.5	7.0	1.0	3.5	2.0	2.3	2.0	1.5	3.2	1.8	3.2	4.3	0.3	2.2
Macedonia	24.6	14.5	28.9	27.5	34.0	19.1	24.7	16.6	17.4	13.0	19.4	13.7	14.1	11.3	13.3
Moldova	24.3	22.3	24.1	40.5	27.6	22.9	21.6	26.2	26.7	33.8	21.9	21.8	28.8	15.7	24.8
Monaco	1.3	1.5	4.8	1.7	8.1	2.5	0.8	3.0	5.1	0.2	0.5	0.0	2.0	3.8	0.9
Montenegro	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1	1.6	0.0	0.8	1.3	1.7



## Appendix table 5-30

**S&E articles in chemistry, by region/country/economy: 1997–2011**

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0
Ethiopia	6.2	6.8	1.8	3.5	4.5	1.2	2.3	3.2	1.7	4.7	3.8	2.0	2.7	4.5	9.1
Gabon	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.5	0.0	0.4	0.0	0.0	0.5	0.0	1.0
Gambia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
Ghana	1.0	4.3	1.9	4.3	4.5	1.5	4.6	2.2	2.3	5.2	2.2	4.2	2.7	4.3	9.3
Guinea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Guinea-Bissau	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kenya	2.0	3.3	3.0	4.0	6.0	2.3	3.7	6.6	3.2	1.8	1.1	2.0	3.7	4.1	5.9
Lesotho	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.3	0.8
Liberia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Libya	2.3	2.0	3.0	0.5	2.6	4.0	2.6	4.3	5.6	5.2	7.7	9.2	2.7	9.2	1.7
Madagascar	1.1	0.0	0.7	1.1	1.1	0.7	0.5	1.8	3.8	2.6	1.0	1.0	1.1	1.9	0.8
Malawi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.2	0.3	0.0
Mali	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.5	0.0	0.3	0.3	0.0	0.3
Mauritania	0.0	0.0	0.0	0.0	0.3	0.8	0.6	1.5	1.0	0.8	0.0	0.8	1.0	0.3	0.0
Mauritius	0.5	0.0	3.5	3.0	3.5	3.0	3.0	3.0	2.8	4.0	5.7	1.2	3.8	2.9	2.0
Morocco	80.2	118.9	104.7	121.3	107.1	116.4	91.4	83.0	66.5	61.6	75.2	64.6	60.9	66.8	67.2
Mozambique	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.3	0.5	0.7	0.3
Namibia	0.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.7
Niger	0.0	0.0	0.0	0.8	0.0	0.0	0.0	1.5	0.5	0.3	2.0	0.0	0.0	0.0	0.8
Nigeria	26.9	19.2	17.8	22.3	11.7	16.7	22.4	23.4	30.0	19.5	28.5	23.8	26.9	31.2	26.6
Rwanda	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
São Tomé and Príncipe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Senegal	1.7	2.7	3.0	3.2	1.3	1.6	6.9	4.1	5.0	1.3	6.3	3.0	3.6	1.9	3.6
Senegambia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Seychelles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sierra Leone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Somalia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South Africa	222.4	204.2	209.1	194.4	212.8	227.3	235.2	254.3	222.9	257.7	256.0	253.3	255.7	319.8	354.5
Sudan	1.3	2.0	1.2	2.0	0.0	1.8	1.3	1.0	0.8	1.5	0.3	1.0	4.9	5.0	9.0
Swaziland	0.0	1.0	0.5	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.7	0.3	0.0	0.8
Tanzania	1.0	0.0	1.7	0.8	0.0	0.0	1.3	1.0	3.0	1.0	1.3	0.0	2.2	0.8	2.7
Togo	0.0	0.0	0.2	0.0	0.0	0.3	0.0	1.2	0.0	0.0	1.0	0.3	0.0	0.3	0.3
Tunisia	54.7	58.4	65.4	65.3	51.4	69.1	81.9	86.8	85.7	102.4	101.9	89.8	94.8	123.6	123.0
Uganda	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.8	0.0	0.7	1.0	0.8	0.5	0.2
Zambia	0.0	1.0	0.0	0.5	0.3	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.5	0.0
Zimbabwe	2.8	3.1	2.8	1.7	3.3	0.5	1.5	0.0	0.0	2.7	1.5	0.0	0.0	1.0	0.0
Asia															
Afghanistan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Armenia	35.2	28.3	31.2	41.0	26.7	23.7	35.5	41.1	52.2	44.3	46.9	47.2	35.0	45.8	35.4
Azerbaijan	34.0	28.8	16.9	29.8	24.8	27.2	34.4	45.0	51.7	49.2	37.8	39.9	66.9	63.9	50.3
Bangladesh	20.2	15.9	26.2	14.1	30.7	22.8	27.7	29.3	28.9	32.0	29.8	27.1	33.5	25.2	35.6

Appendix table 5-30

**S&E articles in chemistry, by region/country/economy: 1997–2011**

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Bhutan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brunei	0.3	4.1	2.5	1.0	1.6	0.9	1.3	3.0	1.0	1.3	0.0	0.3	0.3	1.3	3.7
Burma	1.0	0.5	1.0	0.5	0.0	0.0	0.9	0.8	2.4	0.3	0.8	0.3	0.0	0.0	0.0
Cambodia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.7	0.3	1.4	0.2
China	2,749.6	3,102.5	4,111.0	4,771.1	5,571.2	6,250.5	7,395.1	9,319.4	10,494.3	12,510.1	13,924.5	15,722.1	17,762.7	19,078.2	22,342.6
Georgia	23.8	19.8	28.3	30.4	22.1	21.9	13.5	19.4	21.2	37.1	25.7	19.7	17.3	13.5	9.6
India	2,549.3	2,625.4	2,661.8	2,514.8	2,729.8	3,113.0	3,298.3	3,759.7	3,910.5	4,593.4	4,804.9	4,704.6	4,946.0	5,444.8	6,178.1
Indonesia	14.2	7.9	13.6	12.4	18.3	11.1	15.7	16.6	23.7	15.6	19.9	19.2	23.5	22.7	26.1
Japan	8,148.1	8,511.6	8,599.8	8,768.0	8,448.3	8,392.7	8,579.6	8,800.2	8,675.3	8,345.3	8,494.4	8,249.0	8,253.7	7,646.9	8,139.1
Kazakhstan	43.7	50.3	40.5	48.3	41.0	50.6	51.7	40.4	47.6	40.2	36.3	30.3	39.2	35.1	19.5
Kyrgyzstan	2.5	1.8	2.5	2.5	1.3	2.0	1.0	0.5	3.6	2.0	1.3	1.3	3.0	1.5	1.6
Laos	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.3	0.3	0.3
Malaysia	108.5	117.8	145.7	128.3	149.8	106.9	88.1	110.3	92.7	109.6	128.1	139.8	190.1	257.8	301.9
Maldives	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mongolia	1.3	0.3	1.3	1.5	3.5	2.7	0.7	2.0	2.3	0.5	1.0	2.2	2.6	2.0	1.3
Nepal	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.7	2.9	1.5	1.3	0.5	2.2	2.4	3.5
North Korea	0.0	0.0	0.8	0.0	0.0	0.0	1.0	0.0	0.0	1.3	0.0	1.3	0.8	2.7	0.0
Pakistan	38.2	40.2	53.1	50.9	49.5	78.8	75.8	92.5	111.7	119.5	124.4	135.7	171.6	224.6	223.8
Philippines	1.0	3.9	4.5	4.3	2.0	5.4	7.6	3.1	7.4	5.6	5.5	11.5	8.2	14.8	16.7
Singapore	158.9	224.2	272.6	273.6	296.2	333.2	391.3	505.2	474.2	521.2	512.8	623.2	742.7	821.3	1,004.3
South Korea	1,314.1	1,456.9	1,666.8	1,752.1	1,943.6	2,135.8	2,280.9	2,474.6	2,394.6	2,641.4	2,799.1	3,247.7	3,327.9	3,816.8	4,098.2
Sri Lanka	3.9	8.8	5.5	9.3	8.9	6.8	6.8	10.5	14.7	12.3	7.7	6.0	7.6	7.5	8.9
Taiwan	892.2	896.7	1,109.7	1,029.6	1,162.3	1,164.6	1,253.3	1,423.0	1,469.7	1,719.7	1,588.2	1,718.9	1,813.3	1,864.1	2,122.9
Tajikistan	10.0	6.8	7.0	4.0	5.8	6.3	5.0	5.0	3.9	6.5	6.5	5.5	4.5	4.3	5.8
Thailand	33.7	42.6	49.3	84.3	103.9	129.0	160.0	170.6	202.4	249.3	252.2	287.9	304.5	305.7	352.4
Turkmenistan	3.3	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Uzbekistan	141.8	120.2	119.9	97.8	85.1	71.4	61.8	79.1	57.5	44.5	43.2	32.1	29.2	31.6	55.4
Vietnam	6.6	7.4	7.7	7.6	13.8	6.7	10.9	11.7	15.4	13.1	12.5	16.0	24.2	41.0	62.1
Australia/Oceania															
Australia	1,112.3	1,103.6	1,093.6	1,069.0	1,014.2	945.0	1,107.8	1,121.3	1,141.8	1,209.2	1,184.8	1,230.4	1,409.3	1,560.6	1,739.6
Fiji	0.0	1.0	0.7	0.3	0.0	0.3	2.0	2.0	6.0	1.0	2.1	3.0	5.9	2.6	2.0
Kiribati	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Marshall Islands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Micronesia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nauru	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Zealand	201.6	218.3	189.2	186.8	155.3	159.9	160.1	148.8	173.1	163.4	190.8	166.6	190.6	207.9	240.3
Niue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Palau	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Papua New Guinea	0.0	0.0	1.8	0.6	1.0	0.5	0.2	0.0	0.2	0.4	0.5	0.0	1.6	0.5	0.4
Samoa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solomon Islands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Appendix table 5-30

**S&E articles in chemistry, by region/country/economy: 1997–2011**

Region/country/economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Tonga	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tuvalu	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vanuatu	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NA = not available; country did not exist as such.

NOTES: Article counts are from the set of journals covered by the Science Citation Index (SCI) and Social Sciences Citation Index (SSCI). Articles are classified by their year of publication and are assigned to a region/country/economy on the basis of the institutional address(es) listed in the article. Articles are credited on a fractional-count basis (i.e., for articles with collaborating institutions from multiple countries/economies, each country/economy receives fractional credit on the basis of the proportion of its participating institutions). Detail may not add to total because of rounding.

SOURCES: National Science Foundation, National Center for Science and Engineering Statistics, and The Patent Board™, special tabulations (2013) from Thomson Reuters, SCI and SSCI, [http://thomsonreuters.com/products\\_services/science/](http://thomsonreuters.com/products_services/science/).

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