

Appendix table 5-52

**U.S. patent citations to S&E articles, by field and country/region: 1995-2002**

Field and region/country	1995	1996	1997	1998	1999	2000	2001	2002
	Number							
All citations.....	28,068	39,380	54,156	73,621	71,745	67,429	74,013	71,807
	Percent distribution							
All fields .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Clinical medicine .....	27.0	28.8	31.4	32.4	31.4	29.9	30.6	30.0
Biomedical research .....	33.6	38.3	41.3	44.2	43.8	42.1	41.5	39.1
Biology .....	2.6	2.6	2.2	2.3	3.0	3.0	2.9	2.5
Chemistry.....	14.8	12.8	11.6	9.4	9.7	11.5	12.3	13.5
Physics.....	12.6	9.2	7.3	5.9	6.3	6.9	6.6	8.2
Earth/space sciences.....	0.4	0.3	0.2	0.3	0.3	0.4	0.3	0.3
Engineering/technology .....	8.9	7.8	5.7	5.3	5.3	5.9	5.6	6.2
Mathematics .....	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social & behavioral sciences .....	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2
Worldwide .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
North America .....	62.6	63.4	63.7	64.0	62.7	62.1	61.3	58.8
Canada.....	3.3	3.6	3.5	3.6	3.7	3.6	3.4	3.4
Mexico .....	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.1
United States.....	59.2	59.7	60.1	60.4	59.0	58.4	57.8	55.3
Western Europe .....	22.8	22.8	23.3	23.8	24.4	25.0	25.6	26.2
France.....	3.2	3.2	3.2	3.5	3.6	3.6	3.4	3.5
Germany .....	4.4	4.0	4.5	4.3	4.3	4.8	5.1	5.5
Italy.....	1.4	1.2	1.4	1.5	1.6	1.8	1.7	2.1
The Netherlands .....	1.6	1.5	1.5	1.4	1.7	1.7	1.7	1.7
Switzerland .....	1.5	1.6	1.7	1.7	1.7	1.7	1.8	1.7
United Kingdom.....	6.3	6.7	6.5	6.7	6.7	6.5	6.6	6.4
Other.....	4.5	4.5	4.6	4.8	4.7	4.9	5.4	5.3
Asia.....	11.1	10.1	9.3	8.5	9.1	9.2	9.5	11.1
Emerging East Asia.....	0.9	0.9	0.8	0.8	1.2	1.4	1.6	2.2
Japan.....	9.5	8.8	8.0	7.3	7.5	7.4	7.5	8.4
Other.....	0.6	0.4	0.4	0.4	0.4	0.4	0.5	0.5
Other.....	3.5	3.7	3.7	3.8	3.8	3.7	3.6	3.8

NOTES: Citations are references to U.S. S&E articles in journals indexed and tracked by the Institute for Scientific Information's Science Citation Index and Social Sciences Citation Index. Citation counts are based on a 6-year window with a 2-year lag. For example, citations for 2002 are references made in U.S. patents issued in 2002 to articles published in 1995-2000. 2002 patent data are preliminary and subject to change. Country/region is determined by the cited article's institutional address. Emerging East Asia consists of China, Hong Kong, Singapore, South Korea, and the Taiwan economy. Computer sciences are included in engineering and technology. Social & behavioral sciences consist of psychology, social sciences, health sciences, and professional fields.

SOURCES: U.S. Patent and Trademark Office; Institute for Scientific Information, Science Citation Index and Social Sciences Citation Index; CHI Research, Inc.; and National Science Foundation, Division of Science Resources Statistics, special tabulations.