

Appendix table 5-45

## Share of all S&amp;E articles and top 1% of cited articles and index of highly cited articles, by field and selected region/country/economy: 2000 and 2010

(Percent)

Field/citation period	Share of all articles <sup>a</sup>					Share of top 1% cited articles					Index of highly cited articles				
	United States	EU	Asia-8	China	Japan	United States	EU	Asia-8	China	Japan	United States	EU	Asia-8	China	Japan
All fields															
2000	32.4	35.4	4.1	2.0	8.8	59.9	25.9	0.4	0.2	5.0	1.8	0.7	0.1	0.1	0.6
2010	27.8	32.4	7.4	7.5	7.0	48.9	30.4	2.7	3.6	4.3	1.8	0.9	0.4	0.5	0.6
Engineering															
2000	27.1	30.8	8.9	3.9	12.6	45.3	29.5	2.8	1.4	11.1	1.7	1.0	0.3	0.4	0.9
2010	19.7	27.8	15.1	12.5	8.4	38.5	26.4	8.5	12.3	4.7	2.0	1.0	0.6	1.0	0.6
Astronomy															
2000	34.1	40.3	2.2	1.6	4.7	53.2	35.2	0.0	0.1	4.5	1.6	0.9	0.0	0.1	1.0
2010	31.5	39.1	3.4	4.5	4.6	52.6	35.3	0.4	0.4	4.1	1.7	0.9	0.1	0.1	0.9
Chemistry															
2000	20.3	38.7	7.0	3.7	11.2	48.6	30.2	1.5	0.6	9.3	2.4	0.8	0.2	0.2	0.8
2010	16.8	30.7	10.6	14.6	8.7	34.2	33.2	6.0	10.6	6.7	2.0	1.1	0.6	0.7	0.8
Physics															
2000	21.8	35.8	5.8	4.2	12.0	43.6	35.5	1.2	0.9	9.3	2.0	1.0	0.2	0.2	0.8
2010	18.4	31.2	10.0	12.7	9.8	37.3	35.2	4.3	6.4	6.5	2.0	1.1	0.4	0.5	0.7
Geosciences															
2000	33.7	33.7	3.2	1.6	5.1	56.6	26.2	0.9	0.3	2.1	1.7	0.8	0.3	0.2	0.4
2010	28.1	31.9	5.5	6.0	5.2	44.5	29.1	2.6	4.7	2.1	1.6	0.9	0.5	0.8	0.4
Mathematics															
2000	31.5	38.8	3.6	4.1	4.2	57.6	28.6	0.2	1.8	0.5	1.8	0.7	0.1	0.4	0.1
2010	23.7	38.1	4.9	10.6	4.2	40.7	33.1	3.4	8.7	2.1	1.7	0.9	0.7	0.8	0.5
Computer sciences															
2000	43.5	27.4	8.5	3.1	4.0	58.5	27.9	1.1	1.4	1.1	1.3	1.0	0.1	0.4	0.3
2010	31.6	30.7	10.2	9.8	2.4	44.3	25.9	3.7	9.7	0.5	1.4	0.8	0.4	1.0	0.2
Agricultural sciences															
2000	28.9	32.9	3.5	0.6	8.1	38.7	38.0	1.2	0.2	3.5	1.3	1.2	0.3	0.3	0.4
2010	21.9	33.4	7.3	5.8	6.9	29.4	37.3	4.6	3.8	3.9	1.3	1.1	0.6	0.7	0.6
Biological sciences															
2000	36.5	34.5	2.9	1.0	8.5	63.3	22.7	0.3	0.1	5.1	1.7	0.7	0.1	0.1	0.6
2010	33.0	31.9	5.8	5.0	7.2	56.8	27.6	1.3	0.8	4.0	1.7	0.9	0.2	0.2	0.6
Medical sciences															
2000	36.0	38.3	2.3	0.8	8.3	60.6	26.5	0.2	0.3	3.4	1.7	0.7	0.1	0.4	0.4
2010	33.6	35.5	4.9	2.8	6.4	54.2	31.0	1.1	0.9	2.3	1.6	0.9	0.2	0.3	0.4
Other life sciences															
2000	60.6	22.8	0.6	0.6	0.5	76.4	17.8	0.1	0.0	0.0	1.3	0.8	0.2	0.0	0.0
2010	50.3	23.3	3.1	1.3	0.9	69.5	14.8	0.0	0.5	0.0	1.4	0.6	0.0	0.4	0.0
Psychology															
2000	55.8	25.0	0.5	0.6	2.1	70.2	17.8	0.0	0.1	0.1	1.3	0.7	0.0	0.1	0.0 *
2010	46.2	31.8	1.6	0.9	1.7	64.9	24.5	0.0 *	0.1	0.1	1.4	0.8	0.0	0.1	0.1
Social sciences															
2000	49.4	29.1	1.9	0.9	1.2	69.7	22.5	1.1	0.1	0.2	1.4	0.8	0.6	0.1	0.2
2010	38.9	35.4	3.2	1.6	1.6	58.5	26.2	1.4	0.6	0.0 *	1.5	0.7	0.4	0.3	0.0 *

\* = rounds to zero

EU = European Union

<sup>a</sup>Article data refer to articles in the 3-year cited window, i.e., 2000 data are articles in 1996–98; 2010 data are articles in 2006–08.

NOTES: Article counts from set of journals covered by Science Citation Index (SCI) and Social Sciences Citation Index (SSCI). Articles classified by year they entered database and assigned to country/economy on basis of institutional address(es) listed on article. Articles/citations on fractional-count basis, i.e., for articles with collaborating institutions from multiple countries/economies, each country/economy receives fractional credit on basis of proportion of its participating institutions. See appendix table 5-25 for countries/economies included in EU and Asia-8. Citation data based on year article entered database. Citation data based on 3-year period with 2-year lag, e.g., citations for 2000 are references made in articles in 2000 data tape to articles in 1996–98 data tapes. Index of highly cited articles is share of world's top 1% cited articles divided by share of world articles in cited year window.

SOURCES: National Science Foundation, National Center for Science and Engineering Statistics, and The Patent Board™, special tabulations (2011) from Thomson Reuters, SCI and SSCI, [http://thomsonreuters.com/products\\_services/science/](http://thomsonreuters.com/products_services/science/).