

Appendix table 5-57

**Share of all S&E articles, top 1% of cited articles, and index of highly cited articles, by field and selected country/economy: 2002 and 2012**

(Percent)

Field and citation period	Share of all articles <sup>a</sup>				Share of top 1% cited articles				Index of highly cited articles			
	United States	EU	China	Japan	United States	EU	China	Japan	United States	EU	China	Japan
All fields												
2002	30.8	35.6	2.6	9.0	57.0	28.2	0.3	5.0	1.8	0.8	0.1	0.6
2012	26.6	31.6	9.2	6.3	46.4	29.8	5.8	4.0	1.7	0.9	0.6	0.6
Engineering												
2002	24.4	31.5	5.0	12.2	42.7	29.9	2.5	10.1	1.7	1.0	0.5	0.8
2012	18.4	26.4	15.2	6.7	37.5	24.6	12.2	4.3	2.0	0.9	0.8	0.6
Astronomy												
2002	33.5	39.2	1.9	5.9	54.9	34.4	0.0	1.2	1.6	0.9	0.0	0.2
2012	31.1	38.8	4.7	4.9	48.5	39.3	0.7	3.6	1.6	1.0	0.1	0.7
Chemistry												
2002	19.1	37.9	5.3	11.6	44.2	32.7	1.9	9.4	2.3	0.9	0.4	0.8
2012	16.2	29.6	16.9	7.9	33.5	28.4	16.3	5.6	2.1	1.0	1.0	0.7
Physics												
2002	20.6	35.9	4.7	12.2	42.4	36.8	0.8	8.3	2.1	1.0	0.2	0.7
2012	17.4	30.2	14.8	8.7	37.8	36.2	5.2	6.4	2.2	1.2	0.4	0.7
Geosciences												
2002	32.0	34.6	1.9	5.3	53.2	27.7	0.5	1.8	1.7	0.8	0.2	0.3
2012	26.6	31.7	7.6	4.8	43.4	26.9	8.4	2.2	1.6	0.8	1.1	0.5
Mathematics												
2002	29.0	40.4	4.7	4.6	54.8	32.0	3.1	1.3	1.9	0.8	0.7	0.3
2012	22.0	37.7	12.4	4.1	44.1	34.3	7.3	1.8	2.0	0.9	0.6	0.4
Computer sciences												
2002	39.8	28.9	4.3	4.2	63.3	20.6	0.9	1.3	1.6	0.7	0.2	0.3
2012	27.2	30.6	13.0	2.0	43.6	21.6	16.7	0.5	1.6	0.7	1.3	0.3
Agricultural sciences												
2002	26.2	35.0	0.9	8.6	37.3	41.9	0.5	4.1	1.4	1.2	0.5	0.5
2012	19.6	32.9	7.9	6.7	27.6	38.6	5.9	1.9	1.4	1.2	0.7	0.3
Biological sciences												
2002	35.3	34.6	1.4	8.7	62.4	24.1	0.1	5.3	1.8	0.7	0.1	0.6
2012	31.6	31.5	6.6	6.6	56.0	26.5	2.0	3.6	1.8	0.8	0.3	0.5
Medical sciences												
2002	34.6	38.6	0.9	8.5	56.8	30.2	0.4	3.1	1.6	0.8	0.4	0.4
2012	32.9	34.5	4.0	5.9	51.0	32.1	1.5	2.2	1.6	0.9	0.4	0.4
Other life sciences												
2002	58.7	23.8	0.9	0.6	83.7	10.8	0.0	0.0	1.4	0.5	0.0	0.0
2012	47.0	24.0	1.5	0.9	68.1	18.9	1.1	0.2	1.4	0.8	0.7	0.2
Psychology												
2002	53.6	26.6	0.7	2.0	71.7	18.8	0.1	0.5	1.3	0.7	0.1	0.2
2012	45.2	31.7	1.3	1.6	63.7	25.0	0.3	0.2	1.4	0.8	0.2	0.1

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(Percent)

Field and citation period	Share of all articles <sup>a</sup>				Share of top 1% cited articles				Index of highly cited articles			
	United States	EU	China	Japan	United States	EU	China	Japan	United States	EU	China	Japan
Social sciences												
2002	48.0	30.6	0.9	1.5	70.0	22.9	0.4	0.2	1.5	0.7	0.5	0.1
2012	37.4	35.6	1.9	1.6	49.3	32.5	1.0	0.4	1.3	0.9	0.5	0.2

EU = European Union.

<sup>a</sup> Article data refer to articles in the 3-year cited window (i.e., 2002 data are articles in 1998–2000; 2012 data are articles in 2008–10).

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 the year they entered the database and assigned to country/economy on the basis of the institutional address(es) listed in the article. Articles/citations 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). See appendix table 5-25 for countries/economies included in the EU and Asia. Citation data are based on the year the article entered the database. Citation data are based on a 3-year period with 2-year lag (e.g., citations for 2012 are references made in articles in the 2012 data tape to articles in the 2008–10 data tapes). The index of highly cited articles is the share of the world's top 1% cited articles divided by the share of world articles in the cited-year window.

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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