



APPENDIX TABLE 5-49

Average relative citations for the United States, by scientific field: 1996–2014

(Average relative citation)

Field	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
All fields	1.41	1.41	1.43	1.42	1.41	1.44	1.42	1.42	1.41	1.42	1.43	1.43	1.46	1.47	1.48	1.47	1.44	1.42	1.42
Engineering	1.32	1.36	1.47	1.36	1.37	1.48	1.42	1.44	1.45	1.41	1.44	1.47	1.47	1.40	1.43	1.42	1.37	1.33	1.34
Astronomy	1.45	1.56	1.47	1.44	1.46	1.58	1.57	1.50	1.45	1.55	1.57	1.52	1.55	1.49	1.48	1.54	1.52	1.51	1.55
Chemistry	1.60	1.51	1.61	1.54	1.54	1.62	1.46	1.47	1.38	1.36	1.37	1.32	1.27	1.40	1.43	1.28	1.34	1.32	1.27
Physics	1.53	1.46	1.48	1.45	1.44	1.46	1.41	1.40	1.42	1.41	1.34	1.41	1.46	1.46	1.47	1.46	1.44	1.44	1.42
Geosciences	1.37	1.34	1.34	1.31	1.31	1.36	1.29	1.31	1.23	1.24	1.32	1.27	1.34	1.37	1.40	1.45	1.39	1.42	1.37
Mathematics	1.48	1.37	1.47	1.42	1.43	1.40	1.36	1.42	1.40	1.31	1.38	1.29	1.36	1.33	1.32	1.30	1.25	1.25	1.22
Computer sciences	1.47	1.59	1.47	1.55	1.58	1.75	1.67	1.61	1.61	1.69	1.78	1.67	1.82	1.97	2.14	1.94	1.85	1.74	1.69
Agricultural sciences	1.37	1.31	1.31	1.31	1.25	1.36	1.36	1.29	1.19	1.20	1.30	1.21	1.30	1.27	1.33	1.32	1.33	1.38	1.35
Biological sciences	1.34	1.35	1.37	1.38	1.36	1.36	1.35	1.35	1.36	1.38	1.39	1.40	1.42	1.42	1.41	1.43	1.42	1.40	1.42
Medical sciences	1.47	1.53	1.52	1.52	1.51	1.51	1.53	1.52	1.52	1.53	1.54	1.55	1.56	1.57	1.55	1.55	1.54	1.53	1.54
Other life sciences	1.02	1.00	1.04	1.03	1.04	1.04	1.01	1.00	1.00	1.07	1.01	1.07	1.06	1.07	1.07	1.06	1.08	1.08	1.07
Psychology	1.15	1.14	1.13	1.14	1.13	1.13	1.17	1.20	1.20	1.15	1.14	1.18	1.19	1.17	1.17	1.21	1.21	1.19	1.16
Social sciences	1.33	1.33	1.33	1.37	1.33	1.36	1.33	1.32	1.30	1.28	1.23	1.26	1.25	1.24	1.26	1.31	1.29	1.26	1.29

Note(s)



An average relative citation (ARC) value greater than 1.00 has more citations than average, and an ARC value less than 1.00 has fewer citations than average. The ARC is the average across a given area of geography or a sector of the relative citations for each publication. The relative citation divides each publication's citation count by the average citation count of all of the same type of publications in that subfield and year. ARC values are presented for the year in which the cited article was published, showing the counts of subsequent citations from peer-reviewed literature. At least 2 years of data after publication are needed for a meaningful measure. Publications that cannot be classified by country or field are excluded.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics; SRI International; Science-Metrix; Elsevier, Scopus abstract and citation database, accessed July 2017.

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