

scienceWATCH[®].com

TRACKING TRENDS & PERFORMANCE IN BASIC RESEARCH

[Interviews](#)[Analyses](#)[Data & Rankings](#)

Institutional Interviews : 2009 : Ohio State University - Institution Feature

INSTITUTIONAL INTERVIEWS - 2009

Ohio State University



This month, *ScienceWatch.com* highlights Ohio State University's citation achievements with a look at the university's 20 most-cited papers and its statistics across the 22 fields of the *Essential Science Indicators*SM database from Thomson Reuters.

Of the fields in which OSU ranks in the top 1%, it ranks among the top 100 institutions in nine fields (Clinical Medicine, Biology & Biochemistry, Engineering, Environment & Ecology, Microbiology, Immunology, Materials Science, Pharmacology & Toxicology, and Computer Science), the top 50 in seven fields (Physics, Space Science, Plant & Animal Science, Psychiatry & Psychology, Agricultural Sciences, Economics & Business, and Mathematics), and the top 20 in one field (Social Sciences). It also ranks at #45 by total citations over all fields.

The lion's share of citations for OSU comes from Clinical Medicine, a field in which the university has 7,329 papers with a total of 136,975 citations. OSU's most-cited paper is also from this field. ScienceWatch.com recently interviewed one of OSU's heavy-hitters in the discipline, cancer geneticist **Carlo Croce**, who is also highly cited in the field of Molecular Biology & Genetics.

Physics is another strong suit for OSU, with 3,088 papers cited a total of 59,413 times. OSU authors have contributed to the multi-author, multinational highly cited reviews of particle physics papers, four of which are among the institution's most-cited papers.

OSU ranks in the top 100 in the field of Biology & Biochemistry, with 2,091 papers cited a total of 34,390 times. Moreover, **Dr. Thomas Schmittgen** of the OSU College of Pharmacy is a coauthor of the top-ranked Highly Cited Paper in this field.

Space Science is the fourth-highest citation-scoring field for OSU, with 1,142 papers cited 34,299 times. OSU researchers are key members of the Sloan Digital Sky Survey team, as

Ohio State University

[Profile](#)[Field Rankings](#)[Highly Cited Papers](#)[ScienceWatch Home](#)[Inside This Month...](#)[Interviews](#)[Featured Interviews](#)[Author Commentaries](#)[Institutional Interviews](#)[Journal Interviews](#)[Podcasts](#)[Analyses](#)[Featured Analyses](#)[What's Hot In...](#)[Special Topics](#)[Data & Rankings](#)[Sci-Bytes](#)[Fast Breaking Papers](#)[New Hot Papers](#)[Emerging Research Fronts](#)[Fast Moving Fronts](#)[Corporate Research Fronts](#)[Research Front Maps](#)[Current Classics](#)[Top Topics](#)[Rising Stars](#)[New Entrants](#)[Country Profiles](#)[About Science Watch](#)[Methodology](#)[Archives](#)[Contact Us](#)[RSS Feeds](#)

shown by the fact that four of the six Space Science papers appearing on the top 20 papers for OSU deal with the SDSS. *ScienceWatch.com* talked with [James Bullock](#), the lead author of another of these papers, "Profiles of dark haloes: Evolution, scatter, and environment" (Bullock JS, *et al.*, *Mon. Notic. Roy. Astron. Soc.* 321[3]: 559-75, March 2001), when he was a postdoc at OSU.

OSU also ranks in the top 50 among institutions in the fields of Plant & Animal Science (#23) and Psychiatry & Psychology (#32). In fact, in Psychiatry & Psychology, several of OSU's papers rank among the top 100 Highly Cited Papers, including the paper at #20 on OSU's list of most-cited papers, "Evaluating the use of exploratory factor analysis in psychological research" (Fabrigar LR, *et al.*, *Psychol. Methods* 4[3]: 272-99, September 1999). Another paper in the top 100 Highly Cited Papers in this area is "Implicit measures in social cognition research: Their meaning and use," (Fazio RH, Olsen MA, *Annu. Rev. Psychol.* 54: 297-327, 2003). Coauthors [Russell Fazio](#) and [Michael Olsen](#) talked with *ScienceWatch.com* about this paper and its impact on the field.

OSU ranks at #18 among all institutions in the field of Social Sciences. When *ScienceWatch.com* featured the top 20 institutions in this field last year, OSU ranked at #19, with 2,419 papers cited a total of 15,269 times. Currently, the institution's record in this field includes 2,629 papers cited a total of 18,744 times. Twelve of the top 20 papers for OSU in this field are all by authors exclusively from OSU alone. ■

Additional Information:

[View](#) the complete list of OSU's 20 most-cited papers.

[View](#) the complete list of field rankings for OSU..



[back to top](#) 

Institutional Interviews : 2009 : Ohio State University - Institution Feature

- [ScienceWatch Home](#)
- [Inside This Month...](#)
- [Interviews](#)

- [Featured Interviews](#)
- [Author Commentaries](#)
- [Institutional Interviews](#)
- [Journal Interviews](#)
- [Podcasts](#)

Analyses

- [Featured Analyses](#)
- [What's Hot In...](#)
- [Special Topics](#)

Data & Rankings

- [Sci-Bytes](#)
- [Fast Breaking Papers](#)
- [New Hot Papers](#)
- [Emerging Research Fronts](#)
- [Fast Moving Fronts](#)
- [Corporate Research Fronts](#)
- [Research Front Maps](#)
- [Current Classics](#)
- [Top Topics](#)
- [Rising Stars](#)
- [New Entrants](#)
- [Country Profiles](#)

About Science Watch

- [Methodology](#)
- [Archives](#)
- [Contact Us](#)
- [RSS Feeds](#)


[Interviews](#)
[Analyses](#)
[Data & Rankings](#)

Institutional Interviews : 2009 : Ohio State University - Institution Feature - Field Rankings

INSTITUTIONAL INTERVIEWS - 2009

Ohio State University: Field Rankings



According to *Essential Science Indicators* SM from Thomson Reuters, among the 4,103 top-performing institutions in all fields, Ohio State University ranked #45 for citations (518,006), #38 for papers (36,596), and #1,788 (14.15) for citations per paper.

The table below presents publication and citation data for Ohio State University in 21 main subject fields, covering papers published and cited between January 1999 and June 2009. The fields, which are determined by discrete groupings of specialty journals indexed by Thomson Reuters, are ranked here according to Ohio State's collective citation count in each (the "cites" column), with figures also given for the university's output of papers and its corresponding citations-per-paper count. The "average citation rates" column at the right provides a field-wide baseline figure, reflecting the average number of times a given paper was cited in each field during the ten-years-plus period.

Rank	Field	Papers	Cites	Cites per paper	Avg. citation rates
1	Clinical Medicine	7,329	136,975	18.69	11.89
2	Physics	3,088	59,413	19.24	8.24
3	Biology & Biochemistry	2,091	34,390	16.45	16.04
4	Space Science	1,142	34,299	30.03	13.29
5	Chemistry	2,441	31,303	12.82	9.83
6	Plant & Animal Science	3,180	29,570	9.30	6.99
7	Molecular Biology & Genetics	1,164	27,817	23.90	24.27
8	Psychiatry/ Psychology	1,485	22,959	15.46	9.95
9	Neuroscience & Behavior	1,031	18,900	18.33	17.92
10	Social Sciences, General	2,629	18,744	7.13	4.16

Ohio State University

- [Profile](#)
- [Field Rankings](#)
- [Highly Cited Papers](#)

11	Engineering	2,234	14,300	6.40	4.05
12	Environment/ Ecology	1,047	12,850	12.27	9.82
13	Microbiology	686	12,514	18.24	14.70
14	Immunology	596	11,430	19.18	20.28
15	Materials Science	1,263	10,701	8.47	5.89
16	Geosciences	823	9,118	11.08	8.68
17	Agricultural Sciences	1,083	8,948	8.26	6.24
18	Economics & Business	842	8,705	10.34	5.20
19	Pharmacology & Toxicology	520	5,891	11.33	11.06
20	Mathematics	1,146	4,927	4.30	3.09
21	Computer Science	739	3,999	5.41	3.14
22	All Fields*	36,596	518,006	14.15	9.84

SOURCE: *Essential Science Indicators*SM from Thomson Reuters, 1999-June 30, 2009.



[back to top](#)

Institutional Interviews : 2009 : Ohio State University - Institution Feature - Field Rankings

[ScienceWatch Home](#)
[Inside This Month...](#)
[Interviews](#)
[Featured Interviews](#)
[Author Commentaries](#)
[Institutional Interviews](#)
[Journal Interviews](#)
[Podcasts](#)
[Analyses](#)
[Featured Analyses](#)
[What's Hot In...](#)
[Special Topics](#)
[Data & Rankings](#)
[Sci-Bytes](#)
[Fast Breaking Papers](#)
[New Hot Papers](#)
[Emerging Research Fronts](#)
[Fast Moving Fronts](#)
[Corporate Research Fronts](#)
[Research Front Maps](#)
[Current Classics](#)
[Top Topics](#)
[Rising Stars](#)
[New Entrants](#)
[Country Profiles](#)
[About Science Watch](#)
[Methodology](#)
[Archives](#)
[Contact Us](#)
[RSS Feeds](#)

[Interviews](#)
[Analyses](#)
[Data & Rankings](#)
[Institutional Interviews : 2009 : Ohio State University - Institution Feature - Papers](#)

INSTITUTIONAL INTERVIEWS - 2009

Ohio State University: Papers



Of papers published by Ohio State University authors in the last decade, the following 20 have accumulated the highest citation totals. All the papers were indexed by Thomson Reuters between January 1999 and June 2009, and all list at least one Ohio State-affiliated author.

Most of the papers, such as those from the biennial series offering the *Review of Particle Physics*, represent large, multiauthor, multinational collaborations that include many institutions along with Ohio State. In all, the list clearly conveys that Ohio State authors have contributed to highly visible, influential research in a variety of fields: not only in physics, but in space science, molecular biology & genetics, and clinical medicine.

Top 20 Highly Cited Papers for Ohio State University



1999-June 30, 2009

Rank	Paper	Citations
1	J. E. Rossoué, <i>et al.</i> , "Risks and benefits of estrogen plus progestin in healthy postmenopausal women: principal results From the Women's Health Initiative randomized controlled trial," <i>J. Am. Med. Assn.</i> , 288(3): 321-333, 17 July 2002. Field: Clinical Medicine.	5,032
2	T. R. Golub, <i>et al.</i> , "Molecular classification of cancer: class discovery and class prediction by gene expression monitoring," <i>Science</i> , 286(5439): 531-537, 15 October 1999. Field: Clinical Medicine.	3,269
3	S. Eidelman, <i>et al.</i> , "Review of Particle Physics," <i>Phys. Lett. B</i> , 592(1-4): 1-1109, 15 July 2004. Field: Physics.	3,019
4	W.M. Yao, <i>et al.</i> , "Review of Particle Physics," <i>J. Phys. G-Nucl. Particle Phys.</i> , 33(1): 1-+ Sp. Iss. Si, July 2006. Field: Physics.	2,658

Ohio State University

[Profile](#)
[Field Rankings](#)
[Highly Cited Papers](#)

5	D.E. Groom, <i>et al.</i> , " Review of Particle Physics ," <i>Eur. Phys. J. C</i> , 15(1-4): 1-878, July 2000. Field: Physics	2,391
6	K. Hagiwara, <i>et al.</i> , " Review of Particle Physics ," <i>Phys. Rev. D</i> , 66(1): art. no.-010001, Part 1, 1 July 2002. Field: Physics.	2,215
7	D.G. York, <i>et al.</i> , " The Sloan Digital Sky Survey: Technical Summary ," <i>Astron. J.</i> , 120(3): 1579-1587, September 2000. Field: Space Science.	1,721
8	N.L. Harris, <i>et al.</i> , " The World Health Organization classification of neoplastic diseases of the haematopoietic and lymphoid tissues: Report of the Clinical Advisory Committee Meeting, Airlie House, Virginia, November 1997 ," <i>J. Clin. Oncol.</i> , 17(12): 3835-3849, December 1999. Field: Clinical Medicine.	1,378
9	G. L. Anderson, <i>et al.</i> , " Effects of conjugated equine estrogen in postmenopausal women with hysterectomy: the Women's Health Initiative randomized controlled trial ," <i>J. Am. Med. Assn.</i> , 291(14): 1701-1712, 14 April 2004. Field: Clinical Medicine	1,329
10	C. Stoughton, <i>et al.</i> , " Sloan Digital Sky Survey: Early Data Release ," <i>Astron. J.</i> 123(1): 485-548, January 2002. Field: Space Science.	901
11	M. Tegmark, <i>et al.</i> , " Cosmological parameters from SDSS and WMAP ," <i>Phys. Rev. D</i> , 69(10): art. no.-103501, May 2004. Field: Physics.	774
12	J. S. Bullock, <i>et al.</i> , " Profiles of dark haloes: evolution, scatter and environment ," <i>Mon. Notic. Roy. Astron. Soc.</i> , 321(3): 559-575, March 2001. Field: Space Science.	730
13	S.A. Shumaker, <i>et al.</i> , " Estrogen plus progestin and the incidence of dementia and mild cognitive impairment in postmenopausal women: the Women's Health Initiative Memory Study: a randomized controlled trial ," <i>J. Am. Med. Assn.</i> , 289(20): 2651-2662, 28 May 2003. Field: Clinical Medicine.	682
14	P.S. Jensen, <i>et al.</i> , " A 14-month randomized clinical trial of treatment strategies for attention-deficit/hyperactivity disorder ," <i>Arch. Gen. Psychiat.</i> , 56(12): 1073-1086, December 1999. Field: Psychiatry/Psychology.	681
15	A.K. Jain, <i>et al.</i> , " Data Clustering: A Review ," <i>Acm. Comput. Surv.</i> , 31(3): 264-323, September 1999. Field: Computer Science.	678
16	J. F. Costello, <i>et al.</i> , " Aberrant CpG-island methylation has non-random and tumour-type-specific patterns ," <i>Nat. Genet.</i> , 24(2): 132-138, February 2000. Field: Molecular Biology & Genetics.	544
17	P.C. Van Veldhuisen, <i>et al.</i> , " The advanced glaucoma intervention study (AGIS): 7. the relationship between control of intraocular pressure and visual field deterioration ," <i>Amer. J. Ophthalmol.</i> , 130(4): 429-440, October 2000. Field: Clinical Medicine.	519

18	J. Adams, <i>et al.</i> , "Experimental and theoretical challenges in the search for the quark-gluon plasma: The STAR Collaboration's critical assessment of the evidence from RHIC collisions," <i>Nucl. Phys. A</i> , 757(1-2): 102-183, 8 August 2005. Field: Physics.	511
19	M. Tegmark, <i>et al.</i> , "The Three-Dimensional Power Spectrum of Galaxies from the Sloan Digital Sky Survey," <i>Astrophys. J.</i> , 606 (2): 702-740, Part 1, 10 May 2004. Field: Space Science.	509
20	L.R. Fabrigar, <i>et al.</i> , "Evaluating the use of exploratory factor analysis in psychological research," <i>Psychol. Methods</i> , 4(3): 272-299, September 1999. Field: Psychiatry/psychology.	502
SOURCE: <i>Essential Science Indicators</i> SM from Thomson Reuters, 1999-June 30, 2009.		
 PDF <p style="text-align: right;">back to top </p>		
Institutional Interviews : 2009 : Ohio State University - Institution Feature - Papers		