

Your USER ACCOUNT for accessing saved custom reports

VIEW Indicators, Field Baselines, or Citation Thresholds

OPEN saved custom reports

EXPORT data from the table below

CHANGE the table below to show Research Fields, Authors, Institutions, Journals, Countries, or Research Fronts

ADD a filter to reduce the number of items in the table or target a specific entity

VIEW Top Papers by country

VIEW Highly Cited Papers, Hot Papers, or both

CHOOSE which indicators to display in the table

SET document thresholds

CLEAR filters or **SAVE** your criteria as a custom report

SORT the table by clicking a column heading

CLICK the Top Papers count to view the Hot and Highly Cited papers in a document list

Indicators | **Field Baselines** | **Citation Thresholds**

Top Papers by Research Fields

Map View by Top / Hot / Highly Cited Papers

Results List: Research Fields

Filter Results By: Add Filter

Include Results For: Top Papers

Buttons: Clear, Save Criteria

Total: 22	Research Fields	Web of Science Documents	Cites	Cites/Paper	Top Papers
1	CLINICAL MEDICINE	2,378,897	28,636,904	12.04	23,351
2	CHEMISTRY	1,489,390	18,940,655	12.72	14,601
3	PHYSICS	1,066,150	11,111,605	10.42	10,391
4	BIOLOGY & BIOCHEMISTRY	655,444	10,270,266	15.67	6,541
5	MOLECULAR BIOLOGY & GENETICS	400,575	9,487,577	23.68	3,931
6	NEUROSCIENCE & BEHAVIOR	460,054	7,806,979	16.97	4,541
7	ENGINEERING	1,039,757	6,514,058	6.26	10,331
8	MATERIALS SCIENCE	656,411	6,498,492	9.90	6,431
9	PLANT & ANIMAL SCIENCE	650,330	5,521,233	8.49	6,511
10	SOCIAL SCIENCES	762,226	4,588,628	6.02	7,351

— DOCUMENT LIST

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Indicators Field Baselines Citation Thresholds

Indicators Documents

Papers by Research Field

Sort By: Citations Customize Documents 1 - 10 of 3,714

Rank	Title	Times Cited
1	ARLEQUIN SUITE VER 3.5: A NEW SERIES OF PROGRAMS TO PERFORM POPULATION GENETICS ANALYSES UNDER LINUX AND WINDOWS	3,479
2	MAXIMUM ENTROPY MODELING OF SPECIES GEOGRAPHIC DISTRIBUTIONS	3,100
3	A RAPID BOOTSTRAP ALGORITHM FOR THE RAXML WEB SERVERS	3,066
4	GENEPOP 007: A COMPLETE RE-IMPLEMENTATION OF THE GENEPOP SOFTWARE FOR WINDOWS AND LINUX	3,053
5	NEW ALGORITHMS AND METHODS TO ESTIMATE MAXIMUM-LIKELIHOOD PHYLOGENIES: ASSESSING THE PERFORMANCE OF PHYML 3.0	2,996
6	NOVEL METHODS IMPROVE PREDICTION OF SPECIES DISTRIBUTIONS FROM OCCURRENCE DATA	2,551

Sort By: Citations 1 - 10 of 3,714 Show 10 per page

SORT the table by Citations, Publication Year, or Journal Title

TRACK research performance over time

EXPORT data from the table below

SHOW additional fields for each item in the table

CLICK the title of the paper to access the Web of Science™ full record page

CLICK the Times Cited count of a paper to view a graph providing the number of citations across citing years

— WHAT IS INCITES ESSENTIAL SCIENCE INDICATORS?

Essential Science Indicators (ESI) is a compilation of science performance statistics and trends data derived from Web of Science Core Collection data.* This analytical tool surveys more than 11,000 journals from around the world for article publication and citation count performance indicators. It ranks authors, institutions, countries, and journals in 22 specific fields of research by the number of papers published, citations received, and citations made per paper. Data covers a rolling 10-year period and includes bimonthly updates to rankings and citation counts.

- Examine the research performance of top-ranking institutions, countries, journals, authors, and papers in each of the 22 research fields in ESI.
- Compare the citation performance of a paper with that of its peers.
- Identify trends and emerging areas of research in the sciences and social sciences.

ESI Thresholds	RESEARCH FIELDS	AUTHOR	INSTITUTION	JOURNAL	COUNTRY
Highly Cited Thresholds	AGRICULTURAL SCIENCES	354	1,570	1,353	768
	BIOLOGY & BIOCHEMISTRY	820	5,185	5,600	604
Hot Paper Thresholds	CHEMISTRY	1,376	5,707	5,107	791
	CLINICAL MEDICINE	1,634	1,765	3,768	3,127
	COMPUTER SCIENCE	271	2,467	978	311
	ECONOMICS & BUSINESS	311	3,430	993	184
	ENGINEERING	414	1,742	1,494	619
	ENVIRONMENT/ECOLOG Y	616	3,197	2,359	1,321
	GEOSCIENCES	952	4,609	1,886	911
	IMMUNOLOGY	850	3,784	6,214	1,423
	MATERIALS SCIENCE	923	3,580	1,677	627
	MATHEMATICS	273	3,305	1,202	268
	MICROBIOLOGY	608	4,345	3,100	741
	MOLECULAR BIOLOGY & GENETICS	1,980	10,111	5,980	1,056
	MULTIDISCIPLINARY	441	1,929	136	143
	NEUROSCIENCE & BEHAVIOR	1,113	4,591	6,282	343
	PHARMACOLOGY & TOXICOLOGY	474	2,828	4,577	664
	PHYSICS	7,175	12,388	3,774	1,398
	PLANT & ANIMAL SCIENCE	522	2,105	1,961	1,046
	PSYCHIATRY/PSYCHOLOGY	656	3,362	2,133	231
	SOCIAL SCIENCES, GENERAL	312	1,095	672	836
	SPACE SCIENCE	4,845	25,693	1,419	488

CITATION THRESHOLDS
View the minimum number of citations required to be ranked as a top author, institution, journal, country, or paper in each of the 22 research fields in ESI

FIELD BASELINES
Baselines are annualized expected citation rates for papers in a research field. View baselines for Citation Rates, Percentiles, and Field Rankings (see the Glossary section for more info)

Citation Rates	RESEARCH FIELDS	2006	2007	2008	2009	2010	2011	2012	2013
Field Rankings	ALL FIELDS	22.53	20.75	18.50	16.47	14.20	11.46	8.79	5.97
	AGRICULTURAL SCIENCES	17.39	15.32	12.77	11.23	9.71	7.70	5.88	4.03
	BIOLOGY & BIOCHEMISTRY	32.15	28.90	25.99	23.34	19.42	15.48	11.73	7.88
	CHEMISTRY	22.65	20.83	20.12	18.04	16.40	13.90	11.46	7.99
	CLINICAL MEDICINE	25.99	22.72	20.09	17.85	15.05	12.08	9.20	6.18
	COMPUTER SCIENCE	7.77	11.07	10.07	9.55	7.95	6.40	4.59	3.12
	ECONOMICS & BUSINESS	18.29	15.26	12.37	10.69	8.73	6.62	4.49	2.81
	ENGINEERING	11.67	11.33	10.15	9.83	8.63	7.17	5.42	3.86
	ENVIRONMENT/ECOLOG Y	27.26	24.57	21.91	18.29	15.79	12.36	9.43	6.09
	GEOSCIENCES	23.13	20.13	18.61	16.90	13.96	11.68	8.60	5.76
	IMMUNOLOGY	37.76	34.69	30.96	27.36	22.74	18.22	13.39	9.25
	MATERIALS SCIENCE	16.79	17.49	15.79	14.85	13.86	11.70	9.49	6.74
	MATHEMATICS	8.17	7.43	6.78	5.93	5.11	3.94	2.84	1.83
	MICROBIOLOGY	31.00	27.87	24.36	21.96	18.84	14.05	10.50	7.40
	MOLECULAR BIOLOGY & GENETICS	51.13	47.72	40.74	35.87	30.04	23.95	17.15	11.52
	MULTIDISCIPLINARY	31.37	28.30	21.10	25.22	21.44	16.68	11.67	7.51
	NEUROSCIENCE & BEHAVIOR	35.20	32.79	28.38	25.23	21.25	16.83	12.53	8.26

*Data is limited to Thomson Reuters indexed journals. Books, book chapters, or articles published in journals not indexed by Thomson Reuters are not taken into account, either in terms of publication counts or citation counts.

— GLOSSARY

CITATION RATES

Average citation rates are calculated for each year of the 10-year period, based on accumulated citations from the year of publication to the most current bimonthly update. Averages are calculated by adding the citation counts of individual papers and dividing by the number of papers. An average for the full 10-year period is also given in All Years.

FIELD RANKINGS

Field Rankings displays total papers, total citations received, citations per paper, and Highly Cited papers in each field.

PERCENTILES

The term “percentile” designates a citation threshold at or above that at which a fixed fraction of the papers fall. This term is used to denote any fixed fraction of top papers ordered by citation count. The levels we have selected for listing by field and year are 0.01%, 0.1%, 1.0%, 10%, 20%, and 50%.

RESEARCH FRONTS

A group of Highly Cited papers, referred to as “core papers,” in a specialized topic defined by cluster analysis. Since the assignment of papers to a Research Front is not based on the journal categories used in Essential Science Indicators, Research Fronts offer an alternative classification scheme for Highly Cited papers.

TOP PAPERS

- **Highly Cited Papers:** The top-cited papers over the last 10 years in 22 scientific fields. Rankings are based on meeting a threshold of the top 1% by field and year based on total citations received.
- **Hot Papers:** Papers published in the past two years that receive enough citations during the most recent bimonthly update to place them in the top 0.1% when compared to peer papers.

THRESHOLDS REQUIRED FOR AN ENTITY OR PAPER'S INCLUSION IN ESSENTIAL SCIENCE INDICATORS

	Citation percentile	Years of data examined
SCIENTISTS	1%	10
INSTITUTIONS	1%	10
COUNTRIES	50%	10
JOURNALS	50%	10
HIGHLY CITED PAPERS	1%	10
HOT PAPERS	.1%	2

GETTING HELP

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