



آشنایی با پایگاه اطلاعاتی ISI WEB OF Science Essential Science Indicator

What is Essential Science Indicators?

- شاخصهای ضروری علم به کشف محققان، موسسات، انتشارات و کشورهای اثرگذار در یک زمینه موضوعی می پردازد. کار اصلی این ابزار استخراج حوزه های پژوهشی در حال ظهور و گرایشات علمی جدید از طریق شمارش انتشارات و داده های استنادی مقالات نشریات است.

فواید این ابزار برای استفاده کننده:

تحلیل عملکرد
پژوهشی
سازمانها، ملتها و
نشریات

تعیین گرایشات
پژوهشی در علم و
علوم اجتماعی

رتبه بندی
کشورها، نشریات،
مقالات
و نویسندگان پر کار

مشخص کردن تاثیر و
بروداد پژوهشی در یک
زمینه مطالعاتی

Essential Science Indicators – Data Source

Source Data: Web of Science Core Collection

Science Citation Index Expanded

Social Science Citation Index

Document Types:

Articles

Research Notes

Reviews

Coverage:
10yrs Rolling
Data

10 Million+
Records

22 Broad
Research
Categories

Updated
Bi-Monthly

Fields of Research

Multidisciplinary tool covering 22 disciplines
Scope notes for each field

Agricultural Sciences
Biology & Biochemistry
Chemistry
Clinical Medicine
Computer Science
Ecology/Environment
Economics & Business
Engineering
Geosciences
Immunology
Material Sciences

Mathematics
Microbiology
Molecular Biology & Genetics
Multidisciplinary
Neuroscience & Behavior
Pharmacology & Toxicology
Physics
Plant & Animal Science
Psychology/Psychiatry
Social Sciences, general
Space Science

InCites Essential Science Indicators integrated with Web of Science

Web of Science™ InCites™ Journal Citation Reports® Essential Science Indicators™ EndNote® Joey Help English

WEB OF SCIENCE™ THOMSON REUTERS™

Search My Tools Search History Marked List

Results: 2,651
(from Web of Science Core Collection)

You searched for: PUBLICATION NAME: (nature) AND YEAR PUBLISH ED: (2012) ...More

Create Alert

Refine Results

Search within results for...

Web of Science Categories

MULTIDISCIPLINARY SCIENCES (2,651)

Refine

Document Types

EDITORIAL MATERIAL (885)
ARTICLE (835)
NEWS ITEM (418)
LETTER (277)
BOOK REVIEW (94)

Sort by: Times Cited

Select Page

Save to EndNote online

Add to Marked List

1. **An integrated encyclopedia of DNA elements in the human genome**
By: Dunham, Ian; Kundaje, Anshul; Aldred, Shelley F.; et al.
Group Author(s): ENCODE Project Consortium
NATURE Volume: 489 Issue: 7414 Pages: 57-74 Published: SEP 6 2012
Full Text from Publisher

2. **Comprehensive molecular portrait of cancer genomes from the International Cancer Genome Consortium**
By: Koboldt, Daniel C.; Fulton, Robert H.; et al.
Group Author(s): Canc Genome Atlas Research Team
NATURE Volume: 490 Issue: 7418 Pages: 61-71 Published: SEP 6 2012
Full Text from Publisher

3. **An integrated map of genetic variation from 1,092 human genomes**
By: Altshuler, David M.; Durbin, Richard M.; Abecasis, Goncalo R.; et al.
Group Author(s): 1000 Genomes Project Consortium
NATURE Volume: 491 Issue: 7422 Pages: 56-65 Published: NOV 1 2012
Full Text from Publisher View Abstract

4. **Comprehensive molecular characterization of human colon and rectal cancer**
By: Muzny, Donna M.; Bainbridge, Matthew N.; Chang, Kyle; et al.
Group Author(s): Cancer Genome Atlas Research Team
NATURE Volume: 487 Issue: 7407 Pages: 330-337 Published: JUL 19 2012

Analyze Results
Create Citation Report

Times Cited: 1,679
(from Web of Science Core Collection)
Highly Cited Paper

Times Cited: 1,090
(from Web of Science Core Collection)
Highly Cited Paper

Times Cited: 1,046
(from Web of Science Core Collection)
Hot Paper
Highly Cited Paper

Times Cited: 794
(from Web of Science Core Collection)

کتابخانه دانشکده پزشکی مشهد

fppt.com

InCites Essential Science Indicators integrated with Web of Science

A comparative risk assessment of burden of disease and injury attributable to 67 risk factors and risk factor clusters in 21 regions, 1990-2010: a systematic analysis for the Global Burden of Disease Study 2010

By: Lim, Stephen S.; Vos, Theo; Flaxman, Abraham D.; et al.
LANCET Volume: 380 Issue: 9859 Pages: 2224-2260 Published: DEC 15 2012



Full Text from Publisher

View Abstract

Times Cited: 849
(from Web of Science Core Collection)



Hot Paper



Highly Cited Paper

Hot Papers

مقالاتی که در دو سال اخیر منتشر شده اند و از لحاظ استنادات دریافتی جزو ۰/۱٪ برترین مقالات حوزه موضوعی مربوطه به شمار می آیند

Highly Cited Papers

مقالاتی که در دو سال اخیر منتشر شده اند و از لحاظ استنادات دریافتی جزو ۱٪ برترین مقالات حوزه موضوعی مربوطه به شمار می آیند.

ESI Top Papers

- ☐ Highly Cited Papers (717)
- ☐ Hot Papers (24)

Refine

در صفحه نتایج می توانید نتایج را به محدود کنید. ESI شاخصهای

InCites™ Essential Science Indicators™



THOMSON REUTERS™

Indicators

Field Baselines

Citation Thresholds

Indicators



Top Papers by Research Field

Results List

Research Fields ▼

Filter Results By ?

Changing the filter field removes all current filters.

Add Filter »

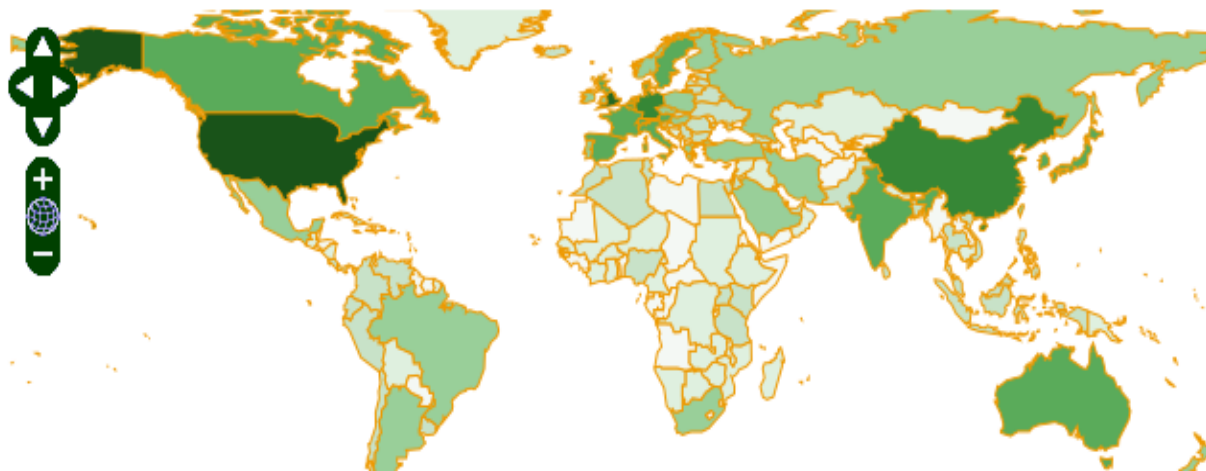
Include Results For

Top Papers ▼

کتابخانه دانشکده پزشکی مشهد

Map View by Top / Hot / Highly Cited Papers

Hide Visualization —



Top Papers by Research Field

Results List

Research Fields

Filter Results By ?

Changing the filter field removes all current filters.

Add Filter »

Include Results For

Top Papers

Clear

Save Criteria

Map View by Top / Hot / Highly Cited Papers

Hide Visualization —



در بخش indicators ۲۲ طبقه موضوعی ESI به همراه تعداد مدارک مربوط به هر طبقه در WOS نمایش داده می شود

Report View by Selection

Total: 22	Research Fields	Web of Science Documents	ESI Index	ESI Score	ESI Size
1	CLINICAL MEDICINE	2,256,253	27,107,932	12.01	21,982
2	CHEMISTRY	1,400,120	16,958,998	12.11	13,913
3	PHYSICS	1,069,386	10,758,072	10.06	10,543
4	BIOLOGY & BIOCHEMISTRY	630,634	9,812,712	15.56	6,236
5	MOLECULAR BIOLOGY & GENETICS	372,293	8,818,910	23.69	3,726
6	NEUROSCIENCE & BEHAVIOR	442,417	7,449,380	16.84	4,382

Papers by Research Field

Citation Trends

Documents

Filter Results By ?

Add Filter »

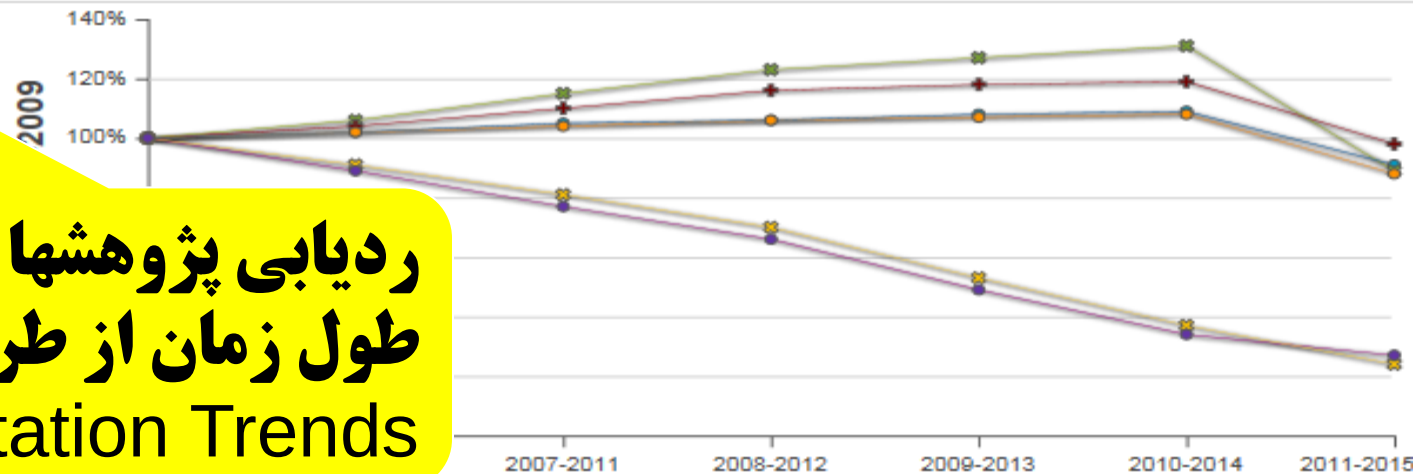
Include Results For

Top Papers

Clear

Save Criteria

Research Fields: PHYSICS



ردیابی پژوهشها در
طول زمان از طریق
Citation Trends

	Normalized	2005-2009	2006-2010	2007-2011	2008-2012	2009-2013	2010-2014	2011-2015
Total Papers	100%	102%	105%	108%	108%	109%	91%	
Total Citations	100%	106%	115%	123%	127%	131%	89%	
Total Citations per Paper	100%	104%	110%	116%	118%	119%	98%	
Top Papers	100%	102%	104%	106%	107%	108%	88%	
Citations to Top	100%	91%	81%	70%	53%	37%	24%	
Citations per Top	100%	89%	77%	66%	49%	34%	27%	

	Normalized	2005-2009	2006-2010	2007-2011	2008-2012	2009-2013	2010-2014	2011-2015
Total Papers	100%	102%	105%	108%	108%	109%	109%	91%
Total Citations	100%	106%	115%	123%	127%	131%	131%	89%
Total Citations per Paper	100%	104%	110%	116%	118%	119%	119%	98%
Top Papers	100%	102%	104%	106%	107%	108%	108%	88%
Citations to Top	100%	91%	81%	70%	53%	37%	37%	24%
Citations per Top	100%	89%	77%	66%	49%	34%	34%	27%

	Raw	2005-2009	2006-2010	2007-2011	2008-2012	2009-2013	2010-2014	2011-2015
Total Papers	504,198	515,765	527,835	535,860	543,985	552,088	552,088	460,592
Total Citations	2,311,981	2,462,013	2,661,592	2,842,165	2,931,698	3,018,311	3,018,311	2,063,775

Papers by Research Field

Citation Trends

Documents

Filter Results By ?

Add Filter »

Include Results For

Top Papers

Clear

Save Criteria

Sort By Citations

Customize Documents

1 - 10 of 6,048

1 THE RISE OF GRAPHENE

By: GEIM, AK; NOVOSELOV, KS;
Source: NAT MATER 6 (3): 183-191 MAR 2007
Research Fields: MATERIALS SCIENCE

Times Cited: 11,355

مشاهده مدارک
دسته بندی شده در
Citation Trends

2 ELECTROCHEMICAL CAPACITORS

By: GOGOTSI, Y; et.al
Source: J ELECTROCHEM SOC 155 (11): 845-854 NOV 2008
Research Fields: MATERIALS SCIENCE

Times Cited: 3,325

 Research Front

3 PROCESSABLE AQUEOUS DISPERSIONS OF GRAPHENE NANOSHEETS

By: LI, D; MULLER, MB; GILJE, S; et.al
Source: NAT NANOTECHNOL 3 (2): 101-105 FEB 2008
Research Fields: MATERIALS SCIENCE

Times Cited: 3,262

4 HIGH-EFFICIENCY SOLUTION PROCESSABLE POLYMER PHOTOVOLTAIC CELLS BY SELF-ORGANIZATION OF POLYMER BLENDS

By: LI, G; SHROTRIYA, V; HUANG, JS; et.al
Source: NAT MATER 4 (11): 864-868 NOV 2005
Research Fields: MATERIALS SCIENCE

Times Cited: 3,252

Top Papers by Research Field

Results List

Research Fields

Filter Results By ?

Changing the filter field removes all current filters.

Add Filter »

✖ UNIV MIAMI

Include Results For

Top Papers

Clear

Save Criteria

Map View by Top / Hot / Highly Cited Papers

Show Visualization +

Report View by Selection

Customize

	Research Fields	Web of Science Documents	Cites	Cites/Paper	Top Papers
1	CLINICAL MEDICINE	8,436	162,412	19.25	248
2	SCIENCES	1,595	36,585	22.94	69
3	NEUROSCIENCE			20.06	35
4				14	17
5				38	23
6				32	11
7				30	15
8				36	11
9	SOCIAL SCIENCES, GENERAL	1,356	10,972	8.09	24
10	CHEMISTRY	569	10,726	18.85	7
	PI ANT &				

در صفحه شاخصها می توان از فیلترها برای تهیه گزارشهایی چون نویسندگان و کشورهای برتر در حوزه های خاص و ... استفاده کرد.

Results List

Authors

Filter Results By ?

Changing the filter field will remove current filters.

Add Filter »

Include Results For

Top Papers

Clear

Save Criteria

Authors

Research Fields

Authors

Institutions

Journals

Countries-Territories

Research Fronts

Attributes ?

Research Fields ›

Authors ›

Institutions ›

Countries-Territories ›

Journals ›

Research Fronts ›

ESI Demonstration Checklist

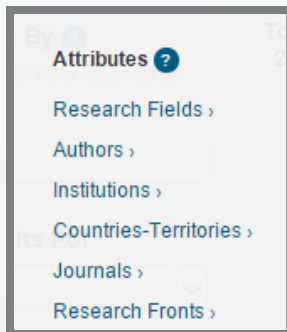
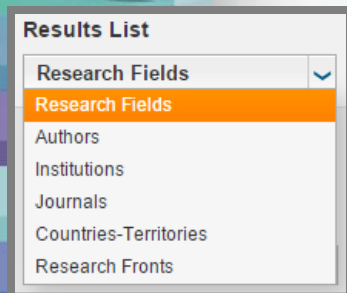
Start with WoS Integration Overview of ESI Interface

Highlight results list and filter options
and select Institution as filter

Top Papers = Hot + Highly Cited Papers

Change Results List to Institutions and
Filter by Research Area to show
ranking

Emphasize option of Save Criteria for
frequently viewed reports



Results List: Research Fields

Filter Results By: UNIV PENN

Include Results For: Top Papers

Map View by Top / Hot / Highly Cited Papers

Report View by Selection

Total: 22	Research Fields	Web of Science Documents	Cites	Cites/Paper	Top Papers
1	CLINICAL MEDICINE	23,501	519,263	22.10	73
2	MOLECULAR BIOLOGY & GENETICS	4,954	229,889	46.40	17
3	NEUROSCIENCE & BEHAVIOR	5,766	162,953	28.26	18
4	BIOLOGY & BIOCHEMISTRY	4,034	108,965	27.01	9
5	PHYSICS	3,418	99,906	29.23	17
6	IMMUNOLOGY	2,572	77,628	30.18	7
7	CHEMISTRY	2,931	72,902	24.87	9
8	PSYCHIATRY/PSYCHOLOGY	3,406	65,540	19.24	8
9	SOCIAL SCIENCES, GENERAL	4,920	52,248	10.62	12
10	ECONOMICS & BUSINESS	2,135	40,360	18.90	8

Results List: Institutions

Filter Results By: Neuroscience & Behavior

Include Results For: Top Papers

Map View by Top / Hot / Highly Cited Papers

Report View by Selection

Total: 724	Institutions	Web of Science Documents	Cites	Cites/Paper	Top Papers
1	UNIV CALIF SYSTEM	22,224	665,578	29.95	65
2	HARVARD UNIV	13,502	416,025	30.81	43
3	UNIV LONDON	13,402	379,592	28.32	39
4	US DEPT HLTH HUMAN SERVICES	9,591	324,956	33.88	29
5	NATL INST HLTH (NIH) - USA	9,018	312,503	34.65	28
6	UNIV COLL LONDON	8,938	272,430	30.48	26
7	INSERM	9,598	199,379	20.77	16
8	JOHNS HOPKINS UNIV	6,903	194,228	28.14	17
9	UNIV TEXAS SYS	7,503	183,627	24.47	14
10	UNIV CALIF LOS ANGELES	6,005	183,494	30.56	17

InCites™ Essential Science Indicators™



THOMSON REUTERS™

Indicators

Field Baselines

Citation Thresholds

RESEARCH
FIELDS

2005 ▼

2006

2007

2008

2009

2010

2011

2012

RESEARCH FIELDS	2005 ▼	2006	2007	2008	2009	2010	2011	2012
MULTIDISCIPLINARY	73.69	70.93	61.91	52.63	48.83	40.74	25.76	16.86

Citation Rates are yearly averages of citations per paper

Citation Rates

Percentiles

Field Rankings

Citation rate
شامل میانگین سالانه
استناد به ازای هر
مقاله است.

RESEARCH FIELDS

ALL FIELDS

AGRICULTURE & BIOLOGICAL SCIENCES

BIOLOGY & BIOCHEMISTRY

CHEMISTRY

CLINICAL MEDICINE

COMPUTER SCIENCE

ECONOMICS & BUSINESS

ENGINEERING

ENVIRONMENT/ECOLOGY

GEOSCIENCES

2008	2009	2010	2011	2012
16.00	13.84	11.39	8.60	5.87
10.77	9.19	7.56	5.58	3.76
22.48	19.59	15.64	11.63	7.83
17.53	15.29	13.27	10.43	7.72
26.30	23.56	20.24	17.53	15.11
12.15	9.12	6.15		
7.32	6.83	9.54	8.50	7.70
6.09	4.52	2.84		
17.80	15.61	12.79	10.12	8.44
6.51	4.53	2.66		
10.28	10.19	9.68	8.49	7.98
6.64	5.14	3.43		
26.94	23.73	21.19	18.48	15.25
12.61	9.62	6.43		
21.57	20.20	17.23	15.63	13.77
10.90	8.54	5.59		



Indicators

Field Baselines

Citation Thresholds



Field Baselines

Baselines are annualized expected citation rates for papers in a research field.

Citation Rates are yearly averages of citations per paper.

Citation Rates	RESEARCH FIELD	Percentiles				2009	2010	2011	2012
		100	90	50	10				
Percentiles	ALL FIELDS	13.84	9.19	5.87	3.76				
	BIOLOGY & BIOCHEMISTRY	19.59	15.64	11.63	7.83				
Field Rankings	CHEMISTRY	15.29	13.27	10.43	7.72				
	CLINICAL MEDICINE	15.11	12.15	9.12	6.15				
	COMPUTER SCIENCE	7.70	6.09	4.52	2.84				
	ECONOMICS & BUSINESS	17.80	15.61	12.79	10.12	8.44	6.51	4.53	2.66
	ENGINEERING	10.28	10.19	9.68	8.49	7.98	6.64	5.14	3.43
	ENVIRONMENT/ECOLOGY	26.94	23.73	21.19	18.48	15.25	12.61	9.62	6.43
	GEOSCIENCES	21.57	20.20	17.23	15.63	13.77	10.90	8.54	5.59

Percentiles

حداقل تعداد استناداتی که
مقاله باید دریافت کند تا در
صدک مورد نظر قرار گیرد.



Indicators

Field Baselines

Citation Thresholds



Field Baselines

Baselines are annualized expected citation rates for papers in a research field.

Citation Rates are yearly averages of citations per paper.

Citation Rates	RESEARCH FIELD	2009	2010	2011	2012
Percentiles	ALL FIELDS	13.84	11.39	8.60	5.87
Field Rankings	AGRICULTURE & BIOLOGICAL SCIENCES	9.19	7.56	5.58	3.76
	BIOLOGY & BIOCHEMISTRY	19.59	15.64	11.63	7.83
	COMPUTER SCIENCE	15.29	13.27	10.43	7.72
	ENGINEERING	15.11	12.15	9.12	6.15
	ENVIRONMENT & ECOLOGY	7.70	6.09	4.52	2.84
	ECONOMICS & BUSINESS	17.80	15.61	12.79	10.12
	GEOSCIENCES	8.44	6.51	4.53	2.66
	HEALTH SCIENCES	10.28	10.19	9.68	8.49
	INTERDISCIPLINARY	26.94	23.73	21.19	18.48
	MANAGEMENT SCIENCE	15.25	12.61	9.62	6.43
	MEDICINE	21.57	20.20	17.23	15.63
	PHYSICS	13.77	10.90	8.54	5.59
	PSYCHOLOGY	17.80	15.61	12.79	10.12
	SOCIAL SCIENCES	10.28	10.19	9.68	8.49
	THE ARTS & HUMANITIES	26.94	23.73	21.19	18.48

Field Rankings

تعداد کل مقالات در یک دوره ده ساله شبکه علم به تفکیک موضوع

ESI Demonstration Checklist

Overview of Field Baselines

Citation Rates as yearly average citations per paper by research area – Is 43 or 56 Citations Good?

Percentiles indicate a percentile level for the citation activity of a paper by research area – 122 Citations in Biology for paper published in 2009 is between 1%-10%

Field Rankings provide 10-year citation data and aggregate data for the 22 ESI and number of highly cited papers by research area

Citation Rates are yearly averages of citations per paper.

Citation Rates	RESEARCH FIELDS ▲	2004	2005	2006	2007	2008	2009	2010	2011
Percentiles	ALL FIELDS	23.18	21.48	19.42	17.46	15.11	12.90	10.40	7.60
	AGRICULTURAL SCIENCES	17.32	16.07	14.56	12.49	10.10	8.49	6.83	4.87
	BIOLOGY & BIOCHEMISTRY	33.80	30.84	27.67	24.35	21.28	18.31	14.33	10.34
	CHEMISTRY	22.28	21.53	19.66	17.72	16.62	14.32	12.18	9.29
Field Rankings	CLINICAL MEDICINE	27.09	25.43	22.67	19.34	16.61	14.11	11.11	8.07
	COMPUTER SCIENCE	7.44	7.02	6.47	9.00	7.93	7.05	5.44	3.88

Field Rankings provide 10-year citation rates and aggregate counts of highly cited papers.

Citation Rates	RESEARCH FIELDS ▲	No. OF PAPERS	No. OF CITATIONS	CITATIONS PER PAPER	HIGHLY CITED PAPERS
Percentiles	AGRICULTURAL SCIENCES	345,625	2,671,579	7.73	
	BIOLOGY & BIOCHEMISTRY	656,327	10,889,885	16.59	3,380
	CHEMISTRY	1,451,923	18,086,202	12.46	6,432
	CLINICAL MEDICINE	2,319,290	29,388,662	12.67	14,418
Field Rankings	COMPUTER SCIENCE	334,923	1,721,949	5.14	
	ECONOMICS & BUSINESS	220,913	1,576,161	7.13	22,532
	ENGINEERING	984,865	5,663,763	5.75	3,394
	ENVIRONMENT/ECOLOGY	354,394	4,332,427	12.22	2,232
	GEOSCIENCES	370,212	4,042,053	10.92	
	IMMUNOLOGY	224,833	4,373,803	19.45	9,623
	MATERIALS SCIENCE	623,697	5,741,308	9.21	3,513
	MATHEMATICS	363,641	1,428,454	3.93	3,714
	MICROBIOLOGY	176,486	2,690,924	15.25	
	MOLECULAR BIOLOGY & GENETICS	384,268	9,698,533	25.24	2,208
	MULTIDISCIPLINARY	26,775	930,194	34.74	6,164
	NEUROSCIENCE & BEHAVIOR	456,744	8,098,179	17.73	3,522
	PHARMACOLOGY & TOXICOLOGY	331,758	4,120,146	12.42	1,768
	PHYSICS	1,118,717	11,580,075	10.35	3,787
	PLANT & ANIMAL SCIENCE	645,144	5,613,162	8.70	
	PSYCHIATRY/PSYCHOLOGY	330,252	3,935,228	11.92	295
	SOCIAL SCIENCES, GENERAL	719,445	4,451,533	6.19	4,582
	SPACE SCIENCE	136,594	2,280,185	16.69	3,286
					11,060
					6,495
					3,274
					6,923
					1,363

Percentiles define levels of citation activity. The larger the minimum number of citations, the smaller the peer group.

Citation Rates	RESEARCH FIELDS ▲	2004	2005	2006	2007	2008	2009	2010	2011	2012
Percentiles	ALL FIELDS									
	0.01%	1,653	1,562	1,345	1,216	1,092	970	696	476	336
	0.10%	603	552	499	444	387	323	257	181	114
	1.00%	200	182	162	144	125	105	84	61	39
	10.00%	54	50	45	40	35	30	24	18	12
	20.00%	32	30	27	24	21	18	15	11	7
Field Rankings	50.00%	11	10	9	9	7	7	5	4	3
	AGRICULTURAL SCIENCES									
	0.01%	916	1,123	397	375	390	283	236	143	75
	0.10%	316	241	233	205	162	131	102	71	42
	1.00%	127	108	94	84	70	54	46	32	21
	10.00%	41	38	35	30	25	22	17	13	8
	20.00%	26	25	23	20	16	14	11	8	6
	50.00%	10	9	9	7	6	5	4	3	2

Citation Thresholds

	Citation Percentile	Data years examined
Researchers	1%	10
Institutions	1%	10
Countries	50%	10
Journals	50%	10
Highly Cited Papers	1%	10
Hot Papers	0.1%	2

تعداد استنادات دریافت شده در ۱٪ برتر نویسندگان و موسسات و ۵۰٪ درصد برتر کشورها و ژورنالها در دوره ۱۰ ساله.

InCites™ Essential Science Indicators™



THOMSON REUTERS

Indicators

Field Baselines

Citation Thresholds

Citation Thresholds

A citation threshold is the minimum number of citations descending order by citation count and then selecting the

The **ESI Threshold** reveals the number of citations received by the top 50% of countries and journals in a 10-year period.

یک آستانه استناد حداقل
تعداد استناداتی است که با
رتبه بندی مقالات در یک
زمینه موضوعی به دست می
آید.

	RESEARCH FIELDS ▲	AUTHOR	INSTITUTION	JOURNAL	COUNTRY
ESI Thresholds	AGRICULTURAL SCIENCES	327	1,481	1,216	710
Highly Cited Thresholds	BIOLOGY & BIOCHEMISTRY	775	5,155	5,351	479
	CHEMISTRY	1,267	5,477	4,585	786
Hot Paper Thresholds	CLINICAL MEDICINE	1,582	1,704	3,255	2,639
	COMPUTER SCIENCE	242	2,267	881	165
	ECONOMICS & BUSINESS	295	3,223	849	155
	ENGINEERING	360	1,549	1,319	506
	ENVIRONMENT/ECOLOGY	556	3,069	1,998	965
	GEOSCIENCES	869	4,396	1,727	847



Citation Thresholds

A citation threshold is the minimum number of citations obtained by a journal, institution, or author, descending order by citation count and then selecting the top

The **ESI Threshold** reveals the number of citations received by the top 50% of countries and journals in a 10-year period.

ESI Threshold تعداد استنادات دریافت شده در ۱٪ برتر نویسندگان و موسسات و ۵۰٪ درصد برتر کشورها و ژورنالها در دوره ۱۰ ساله.

	RESEARCH FIELDS ▲	AUTHOR	INSTITUTION	JOURNAL	COUNTRY
ESI Thresholds	AGRICULTURAL SCIENCES				710
Highly Cited Thresholds	BIOCHEMISTRY				479
	CHEMISTRY				786
	CLINICAL MEDICINE				2,639
Hot Paper Thresholds	COMPUTER SCIENCE				165
	ECONOMICS			849	155
	ENVIRONMENTAL SCIENCE			1,319	506
	GEOSCIENCES			1,998	965
				1,727	847

Highly Cited Thresholds

حداقل تعداد استنادات دریافت شده در یک درصد برتر مقالات برای هر سال

Hot Paper Thresholds

حداقل تعداد استنادات دریافت شده در طول جدیدترین دوره دوماهه توسط ۱/۱۰

ESI Demonstration Checklist

Overview of Citation Thresholds

ESI Thresholds show the minimum number of citations by research area received by Top 1% of:

Authors

Institution

Journal

Country

Highly Cited Threshold show the minimum number of citations by research area to be in the Top 1% in the last ten years

Hot Papers Threshold show the minimum number of citations by research area to be in the Top 0.1% in the last two years

The **ESI Threshold** reveals the number of citations received by the top 1% of authors and institutions and the top 50% of countries and journals in a 10-year period.

	RESEARCH FIELDS ^	AUTHOR	INSTITUTION	JOURNAL	COUNTRY
ESI Thresholds	AGRICULTURAL SCIENCES	343	1,489	1,224	701
	BIOLOGY & BIOCHEMISTRY	841	5,425	5,770	490
Highly Cited Thresholds	CHEMISTRY	1,315	5,238	4,711	916
	CLINICAL MEDICINE	1,673	1,754	3,391	2,825
Hot Paper Thresholds	COMPUTER SCIENCE	250	2,185	980	190
	ECONOMICS & BUSINESS	318	3,378	837	119
	ENGINEERING	363	1,446	1,391	531
	ENVIRONMENT/ECOLOGY	576	3,106	2,147	1,225

The **Highly Cited Threshold** reveals the minimum number of citations received by the top 1% of papers from each of 10 database years.

	RESEARCH FIELDS ^	2004	2005	2006	2007	2008	2009	2010	2011
ESI Thresholds	AGRICULTURAL SCIENCES	127	108	94	84	70	54	46	32
	BIOLOGY & BIOCHEMISTRY	244	221	195	175	154	127	97	68
Highly Cited Thresholds	CHEMISTRY	186	175	158	142	130	113	98	75
	CLINICAL MEDICINE	222	210	182	158	135	113	88	63
Hot Paper Thresholds	COMPUTER SCIENCE	85	75	69	77	68	55	45	32
	ECONOMICS & BUSINESS	166	153	121	106	79	60	47	31
	ENGINEERING	94	83	79	75	62	56	46	34
	ENVIRONMENT/ECOLOGY	212	184	164	144	128	103	80	64

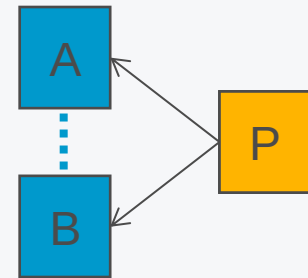
The **Hot Papers Threshold** reveals the minimum number of citations received during the most recent two-month period by the top 0.1% of papers from the past two years.

	RESEARCH FIELDS ^	2012-6	2013-1	2013-2	2013-3	2013-4	2013-5
ESI Thresholds	AGRICULTURAL SCIENCES	5	5	5	5	4	4
	BIOLOGY & BIOCHEMISTRY	8	13	11	8	8	8
Highly Cited Thresholds	CHEMISTRY	9	11	10	10	11	8
	CLINICAL MEDICINE	11	10	9	9	10	9
Hot Paper Thresholds	COMPUTER SCIENCE	6	6	8	5	6	5
	ECONOMICS & BUSINESS	4	5	7	4	4	4
	ENGINEERING	6	6	6	5	6	5
	ENVIRONMENT/ECOLOGY	8	7	7	9	8	7

Research Fronts

شناسایی جبهه های پژوهش شامل دسته بندی مقالات هم استناد برای گروه بندی مواردی است که مرتبط تر هستند. یک جبهه پژوهش شامل خوشه ای از مقالات هسته هم استناد علاوه بر گروه مقالات منبع فعلی که به یک یا بیشتر از این مقالات هسته استناد کرده اند.

1. When paper A and B are “co-cited” by paper P, A and B are likely to have topical relatedness.



2. When co-citation is frequent, it forms a group of papers that are topically associated to one another.

