

WEB OF KNOWLEDGE UPDATE

Ing. David Horký
Country Manager – Central and Eastern Europe
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OBSAH

- Politika výběru časopisů do Web of Science
- Platforma Web of Knowledge 5
- Hodnocení VaV
- Article Match & Retrieve
- Dotazy

CITACE VE VĚDECKÉ KOMUNIKACI



Garfield, E.

“Citation indexes for science: A new dimension in documentation through association of ideas.” *Science*, 122 (3159), p.108-111, July 1955.

Science, Vol:122, No:3159, p.108-111, July 15, 1955

Citation Indexes for Science:

A New Dimension in Documentation through Association of Ideas

Eugene Garfield, Ph.D.

"The uncritical citation of disputed data by a writer, whether it be deliberate or inadvertent, is a serious matter. Of course, knowingly propagandizing unsubstantiated claims is perhaps the most reprehensible form of scientific dishonesty. But even well-intended writers may be guilty of this offense, as many naive students may be swayed by unfounded assertions presented by a writer who is himself completely unaware of the criticisms. Buried in scholarly journals, critical notes are increasingly likely to be overlooked with the passage of time, while the studies to which they pertain, having been reported more widely, are apt to be rediscovered." (1)

Citované záznamy
vztahy mezi vědeckými pracemi

Citační rejstříky
nový přístup k věcné kontrole
vědecké literatury

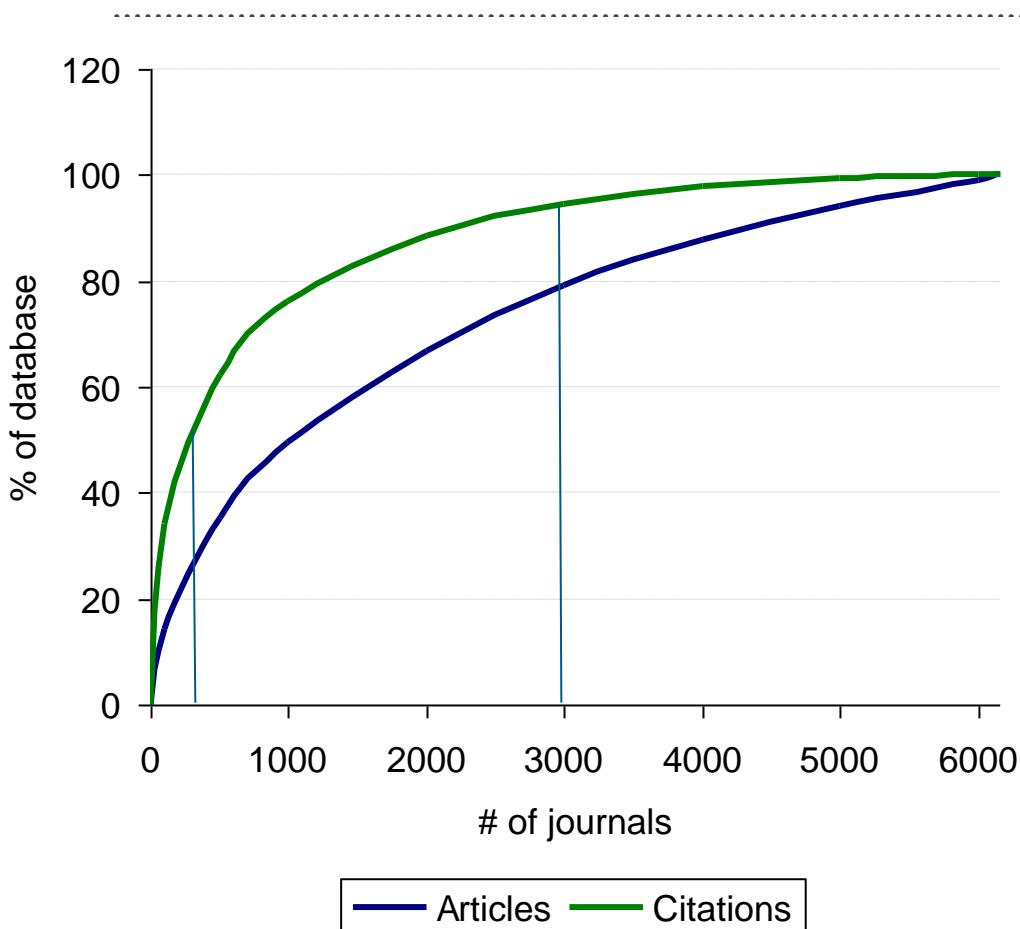
WEB OF SCIENCE POLITIKA VÝBĚRU ČASOPISŮ

- Proč vybíráme časopisy?



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JOURNAL CITATION REPORTS



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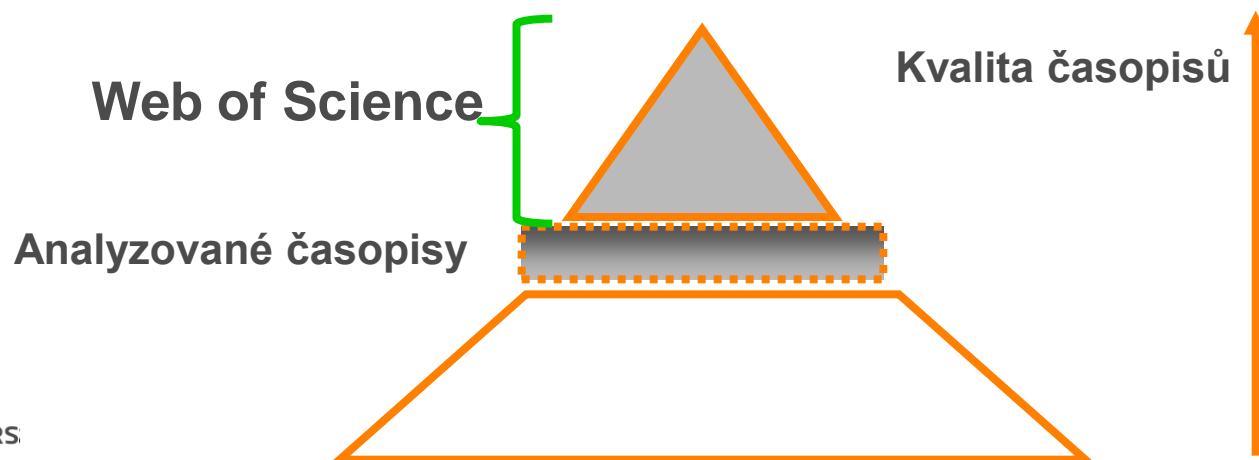
- 80% publikací
- 92% citovaných článků

4% časopisů:

- 30% publikací
- 51% citovaných článků

WEB OF SCIENCE POLITIKA VÝBĚRU ČASOPISŮ

- Každoročně je hodnoceno cca 2000 časopisů
 - akceptováno 10-12%
- Editoři Thomson Reuters
 - Informační profesionálové
 - Knihovníci
 - Odborníci na publikace ve svém vědním oboru



FILOSOFIE VÝBĚRU ČASOPISŮ DO WOS

Kvalita

Rozmanitost

Hloubka

The image shows two panels from historical issues of Current Contents. The left panel is from 'Current Contents, #18, May 6, 1970' and features a portrait of Dr. Eugene Garfield. The right panel is from 'Number 45, November 5, 1979' and features a portrait of another man. Both panels include the title 'current comments' and discuss the selection process for significant journals.

Current Contents, #18, May 6, 1970

current comments

What is a Significant Journal?

May 6, 1970

I like to think that most of the significant journals in the relevant fields are covered by the various editions of *Current Contents* and by

...enon of papers being considered obsolescent after a decade³. Recently, we at ISI® have done some

How Do We Select Journals For Current Contents?

Number 45

November 5, 1979

Scientists have often told me in letters and conversations that *Current Cont...* had classic studies like Brown's *Scientific Serials*³ and surveys conducted by

Od počátku existence ISI (nyní Scientific Business of Thomson Reuters), bylo naším zakladatelem, Dr. Eugenem Garfieldem, stanoveno, že obsah se bude skládat z časopisů z celého světa, které představují kvalitu a vliv ve svém oboru.

Po desetiletí se hodnocením a výběrem časopisů zabývají odborníci z oddělení Editorial Development.

KOMPONENTY HODNOCENÍ ČASOPISŮ

V hodnocení časopisů:

- Jsme objektivní (“publisher-neutral”) - na hodnocení nemá vliv, zda se jedná o časopis vydávaný komerčním nakladatelem, akademickým, nakladatelem, zda se jedná o Open Access časopis apod.
- Pro časopisy všech typů nakladatelů jsou používány stejné standardy

Proces výběru časopisů Thomson Reuters:

http://thomsonreuters.com/products_services/science/free/essays/journal_selection_process/

<http://science.thomsonreuters.com/mjl/selection>

ZÁKLADNÍ PUBLIKAČNÍ STANDARDY

- Včasnost vydávání časopisu
 - Schopnost vydávat časopis v předem stanovených termínech. Velice důležitá podmínka, kvůli které většinou hodnotíme minimálně tři po sobě jdoucí vydání a někdy i více.
- Mezinárodní publikační standardy
 - Kompletní bibliografická informace na všech úrovních – pro časopis, články, autory a citované reference.
- Názvy článků, abstrakty, klíčová slova a citované reference v anglickém jazyce
 - Velice vhodné, aby časopis mohl oslovit co nejširší cílovou skupinu.
- Peer review
 - Zcela zásadní

OBSAH

- Pokrytá téma
- Povaha obsahu
 - Původní články
 - Recenze
 - ‘Metodické’ články
- Odpovídající intelektuální úroveň

Zásadní otázka

„Co nového tento časopis přináší databázi Web of Science? ”

MEZINÁRODNÍ ROZMANITOST

- Autoři, redaktoři a členové redakční rady
 - Je jejich složení mezinárodní?
 - Odráží tento časopis globální povahu dnešní vědy a výzkumu?
- Regionální časopisy
 - Rovněž se snažíme o pokrytí těchto časopisů, abychom podchytili globální klima, ve kterém se věda a výzkum odehrává
 - V současnosti a i do budoucna budeme na tento aspekt klást velký důraz

CITAČNÍ ANALÝZA

- Časopisu
 - Pokud časopis existuje několik let, bude k dispozici citační historie. Ta je pro proces hodnocení extrémně důležitá.
 - K hodnocení se většinou používá celkový počet citací, přibližný Impakt Faktor a Immediacy Index.
- Autorů a redaktorů
 - Důležitá je rovněž analýza individuální citační historie autorů a redaktorů
 - V případě nových časopisů se jedná o jediný indikátor potenciálního citačního vlivu

Kvalifikovaný odhad potenciálního vlivu



‘UDRŽENÍ’ ČASOPISU VE WOS

- Redaktoři nadále monitorují kvalitu časopisu dle kritérií výběru
- Chtějí vidět konzistenci, v některých případech zlepšení
- Pokud dojde k viditelnému poklesu vlivu časopisu, jeho publikačních standardů (např. pozdní vydávání), nebo k něčemu jinému, co může signalizovat nějaké problémy časopisu, časopis bude sledován a pokud třeba, vyřazen z Web of Science

RŮST POKRYTÍ REGIONÁLNÍCH A ČESKÝCH ČASOPISŮ

Web of Science	2005	2010	Nárůst	Procentní změna
<u>Celkový počet indexovaných časopisů</u>	8,834	11,423	2,589	+ 29%
<u>Regionální časopisy</u>	1,716	3,605	1,889	+ 110%
<u>České časopisy</u>	30	56	26	+ 87%

NÁRŮST POKRYTÍ ČESKÝCH ČASOPISŮ VE WEB OF SCIENCE

Web of Science	2005	2010	Nárůst	Procentní změna
<u>Science Citation Index – Expanded</u>	23	36	13	+ 57%
<u>Social Sciences Citation Index</u>	4	11*	7	+ 175%
<u>Arts & Humanities Citation Index</u>	3	12**	9	+ 300%



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*1 titul pokryt zároveň v SCIE a SSCI

**2 tituly pokryty zároveň v SSCI a A&HCI

CELKOVÉ POKRYTÍ WEB OF SCIENCE

Region	Počet časopisů z regionu ve WoS	
Evropa	5,573	49%
Severní amerika	4,251	38%
Asie a pacifická oblast	965	9%
Latinská amerika	272	2%
Střední východ/Afrika	200	1%

Jazyk	Počet časopisů ve WoS	
Angličtina	9114	81%
Jiný	2147	19%

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 Arts & Humanities Citation Index (A&HCI)--1975-present
 NEW! Conference Proceedings Citation Index- Science (CPCI-S)--1990-present
 NEW! Conference Proceedings Citation Index- Social Science & Humanities (CPCI-SSH)--1990-present

Chemical Databases:

Index Chemicus (IC)--1993-present
 Current Chemical Reactions (CCR-EXPANDED)--1985-present
(includes Institut National de la Propriete Industrielle structure data back to 1840)

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WEB OF SCIENCE VALUE OF CITATION NETWORK

CAUSES OF DEATH IN SCHIZOPHRENIA AND MANIC-DEPRESSION

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more options

Author(s): TSUANG MT, WOOLSON RF, FLEMING JA

Source: BRITISH JOURNAL OF PSYCHIATRY Volume: 136 Issue: MAR Pages: 239-242 Published: 1980

Times Cited: 84 References: 8 Citation Map

Document Type: Article

Cited by: 84

This article has been cited 84 times (from Web of Science).

Goldstein BI, Fagiolini A, Houck P, et al. Cardiovascular disease and hypertension among adults with bipolar I disorder in the United States. *BIPOLAR DISORDERS* 11 6 657-662 SEP 2009

Fiedorowicz JG, Solomon DA, Endicott J, et al. Manic-Hypomanic Symptom Burden and

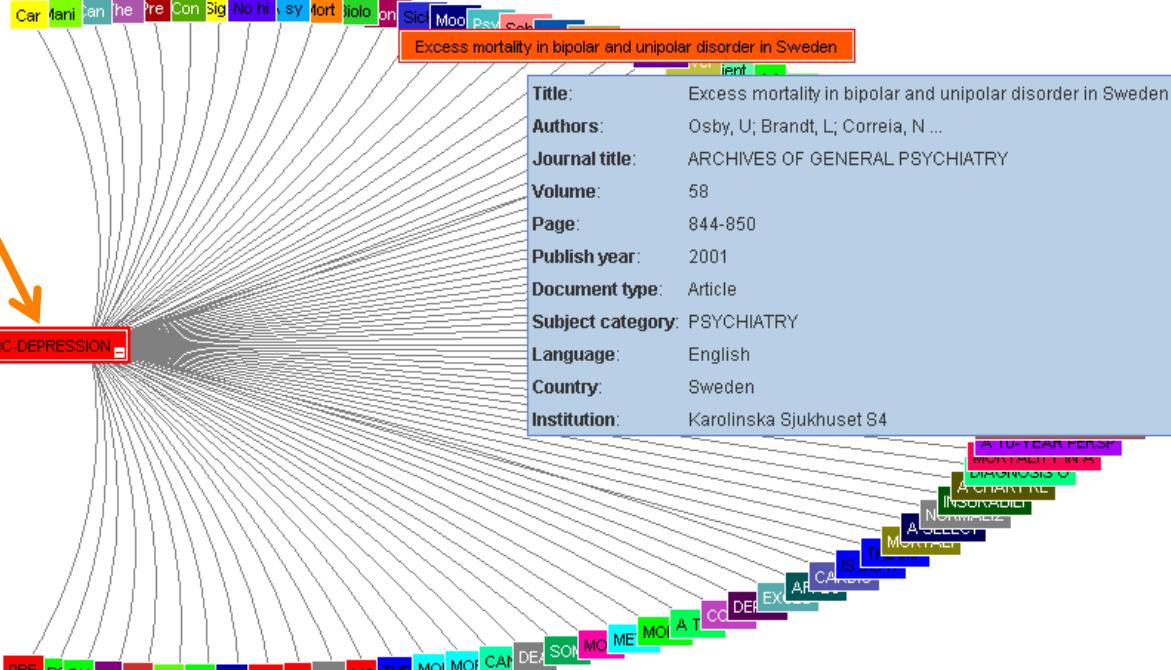
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WEB OF SCIENCE CONFERENCE PROCEEDINGS CITATION INDEX

- Two Editions:
 - Science & Technology
 - Social Sciences & Humanities
- Approx 5.5 million records
- Updated Weekly
- Over 385,000 records per year
- More than 120,000 conferences covered in total
- Approximately 12,000 conferences covered annually
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- Comprehensive, multidisciplinary and international coverage from conferences proceedings published in books, journals, reports, series, and preprints
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WEB OF SCIENCE DEPTH OF CITATION INDICES

1900 Century of Science

1945

Science Citation Index

1900 Century of Social Sciences

1956

SSCI

56 years of added coverage
in the Social Sciences

1975

A&HCI

1990 CPCI

>300 journals added that
focus on the first half of
last century



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CASE STUDY: Charles Warren Thornthwaite

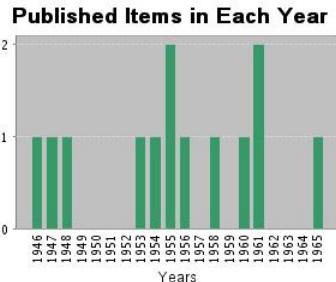


- C. Warren Thornthwaite was a Geographer and Climatologist best known for devising a Climate Classification System proposed in his landmark paper in 1948 which also discusses the importance of evapotranspiration on climate.
- Thornthwaite published **28 papers between 1931 and 1965**, mostly in the fields of Geography and Geochemistry & Geophysics.
- His works have gone on to be highly influential to researchers in many fields and in recent years have been particularly utilized by researchers involved in climate change and water management

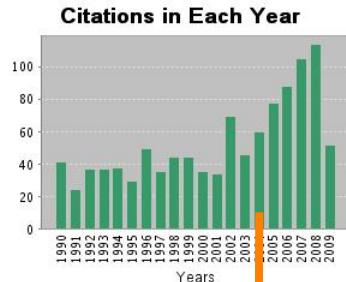
The works of C. Warren Thornthwaite

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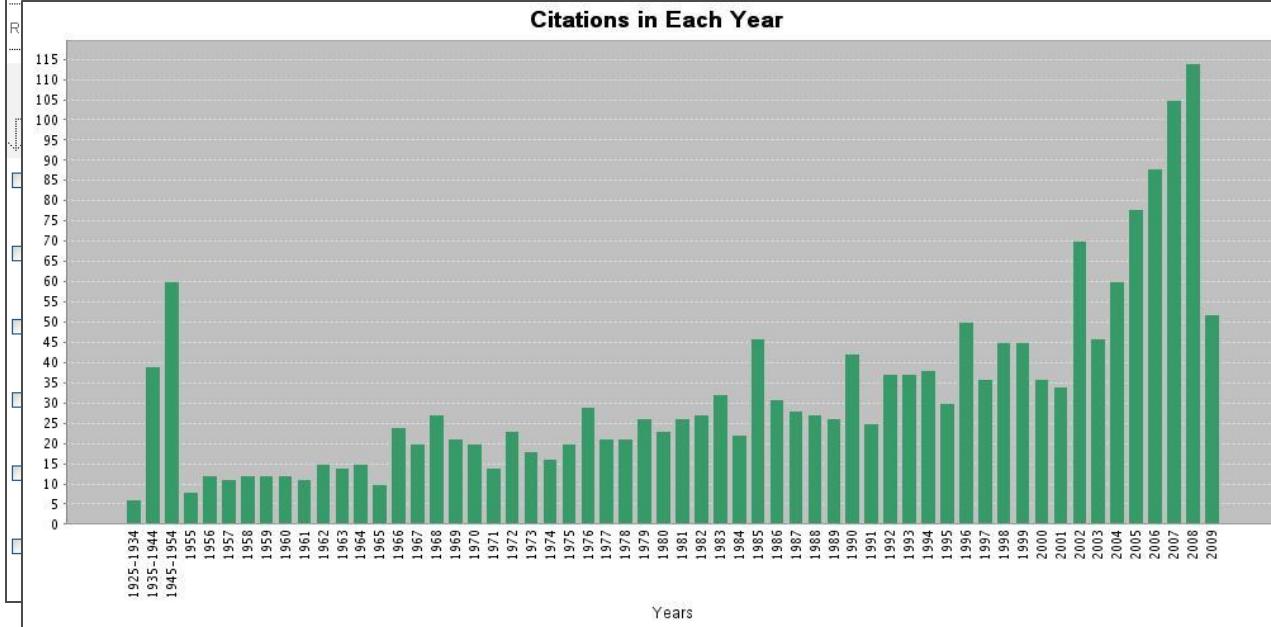
Sum of the Times Cited [?] : 1,942

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Average Citations per Item [?] : 69.36

h-index [?] : 8



Thornthwaite produced 28 highly influential works in the Social Sciences which have been consistently cited throughout their history



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Omega-3 fatty acids in inflammation and autoimmune diseases

Author(s): Simopoulos, AP (Simopoulos, AP)

Source: JOURNAL OF THE AMERICAN COLLEGE OF NUTRITION Volume: 21 Issue: 6 Pages: 495-505 Published: DEC 2002

Times Cited: 272 (from Web of Science)

Cited References: 100 [Citation Map](#)

Abstract: Among the fatty acids, it is the omega-3 polyunsaturated fatty acids (PUFA) which possess the most potent immunomodulatory activities, and among the omega-3 PUFA, those from fish oil-eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA)-are more biologically potent than alpha-linolenic acid (ALA). Some of the effects of omega-3 PUFA are brought about by modulation of the amount and types of eicosanoids made, and other effects are elicited by eicosanoid-independent mechanisms, including actions upon intracellular signaling pathways, transcription factor activity and gene expression. Animal experiments and clinical intervention studies indicate that omega-3 fatty acids have anti-inflammatory properties and, therefore, might be useful in the management of inflammatory and autoimmune diseases. Coronary heart disease, major depression, aging and cancer are characterized by an increased level of interleukin 1 (IL-1), a proinflammatory cytokine. Similarly, arthritis, Crohn's disease, ulcerative colitis and lupus erythematosus are autoimmune diseases characterized by a high level of IL-1 and the proinflammatory leukotriene LTB4 produced by omega-6 fatty acids. There have been a number of clinical trials assessing the benefits of dietary supplementation with fish oils in several inflammatory and autoimmune diseases in humans, including rheumatoid arthritis, Crohn's disease, ulcerative colitis, psoriasis, lupus erythematosus, multiple sclerosis and migraine headaches. Many of the placebo-controlled trials of fish oil in chronic inflammatory diseases reveal significant benefit, including decreased disease activity and a lowered use of anti-inflammatory drugs.

Document Type: Review

Language: English

Author Keywords: inflammation; cardiovascular disease and major depression; autoimmune diseases; IL-1; IL-6; TNF; background diet; omega-6/omega-3 ratio

KeyWords Plus: TUMOR-NECROSIS-FACTOR; DIETARY FISH-OIL; CARDIOVASCULAR RISK-FACTORS; PLASMA-FIBRINOGEN CONCENTRATION; ACUTE MYOCARDIAL-INFARCTION; CORONARY-ARTERY DISEASE; C-REACTIVE PROTEIN; RHEUMATOID-ARTHRITIS; ULCERATIVE-COLITIS; MAJOR DEPRESSION

Reprint Address: Simopoulos, AP (reprint author), Ctr Genet Nutr & Hlth, 2001 S St,NW,Suite 530, Washington, DC 20009 USA.

Cited by: 288

This article has been cited 288 times (from All Databases).

Sands, David C. Elevating optimal human nutrition to a central goal of plant breeding and production of plant-based foods. PLANT SCIENCE, NOV 2009.

Rosell, Magdalena. Dietary Fish and Fish Oil and the Risk of Rheumatoid Arthritis. EPIDEMIOLOGY, NOV 2009.

Hosomi, Ryota. Effects of Dietary Fish Protein on Serum and Liver Lipid Concentrations in Rats and the Expression of Hepatic Genes Involved in Lipid Metabolism. JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, OCT 14 2009.

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Omega-3 fatty acids in inflammation and autoimmune diseases

Author(s): Simopoulos, AP (Simopoulos, AP)

Source: JOURNAL OF THE AMERICAN COLLEGE OF NUTRITION Volume: 21 Issue: 6 Pages: 495-505 Published: DEC 2002

Times Cited: 272 (from Web of Science)

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 - 268 in Science Citation Index Expanded (SCIE)
 - 13 in Social Science Citation Index (SSCI)
 - 0 in Arts & Humanities Citation Index (A&HCI)
 - 27 in Conference Proceedings Citation Index - Science (CPCI-S); Conference Proceedings Citation Index - Social Science & Humanities (CPCI-SSH)
 - 27 in Conference Proceedings Citation Index - Science (CPCI-S)
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- 201 in BIOSIS Citation Index
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Sands, David C. Elevating optimal human nutrition to a central goal of plant breeding and production of plant-based foods. PLANT SCIENCE, NOV 2009.



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Coronavirus as a possible cause of severe acute respiratory syndrome.

Author(s): Peiris, J. S. M. (malik@hkucc.hku.hk) ; Lai, S. T.; Poon, L. L. M.; Guan, Y.; Yam, L. Y. C.; Lim, W.; Nicholls, J.; Yee, W. K. S.; Yan, W. W.; Cheung, M. T.; Cheng, V. C. C.; Chan, K. H.; Tsang, D. N. C.; Yung, R. W. H.; Ng, T. K.; Yuen, K. Y.

Corporate Author(s): The SARS study group

Source: Lancet (North American Edition) Volume: 361 Issue: 9366 Pages: 1319-1325 Published: April 19, 2003

Times Cited: 756 (from BIOSIS Citation Index)

Cited Reference Count: 15 [View Citation Map](#)

Abstract: Background presentation among epidemiologically likely agents by chest radiograph for microbiological investigation, myalgia, and cough disproportionately mild with severe disease for this virus, 45 of 50 SARS that might be diagnosed to be mainly

BIOSIS Accession #

Document Type: Article

Language: English

Medium: print

Addresses: Peiris, J. S. M.; Lai, S. T.; Poon, L. L. M.; Guan, Y.; Yam, L. Y. C.; Lim, W.; Nicholls, J.; Yee, W. K. S.; Yan, W. W.; Cheung, M. T.; Cheng, V. C. C.; Chan, K. H.; Tsang, D. N. C.; Yung, R. W. H.; Ng, T. K.; Yuen, K. Y.; Department of Microbiology, Queen Mary Hospital, University of Hong Kong, Pokfulam Road, Hong Kong, China

1109 in All Databases

This article has been cited by articles indexed in the databases listed below. [more information]

994 in Web of Science

- 984 in Science Citation Index Expanded (SCIE), Social Science Citation Index (SSCI), and Arts & Humanities Citation Index (A&HCI)
 - 973 in Science Citation Index Expanded (SCIE)
 - 26 in Social Science Citation Index (SSCI)
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- 43 in Conference Proceedings Citation Index - Science (CPCI-S); Conference Proceedings Citation Index - Social Science & Humanities (CPCI-SSH)
 - 43 in Conference Proceedings Citation Index - Science (CPCI-S)
 - 1 in Conference Proceedings Citation Index - Social Science & Humanities (CPCI-SSH)

756 in BIOSIS Citation Index

76 in Chinese Science Citation Database

Cited by: 1109

This article has been cited 1109 times (from All Databases).

Kohyama, Shunsuke. Efficient induction of cytotoxic T lymphocytes specific for severe acute respiratory syndrome (SARS)-associated coronavirus by immunization with surface-linked liposomal peptides derived from a non-structural polyprotein 1a. *ANTIVIRAL RESEARCH*, NOV 2009.

Feng, Dan. The SARS epidemic in mainland China: bringing together all epidemiological data. *TROPICAL MEDICINE & INTERNATIONAL HEALTH*, NOV 2009.

Hu, Hui. Enhancing immune responses against SARS-CoV nucleocapsid DNA vaccine by co-inoculating interleukin-2 expressing vector in mice. *BIOTECHNOLOGY LETTERS*, NOV 2009.

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Cited References: 15

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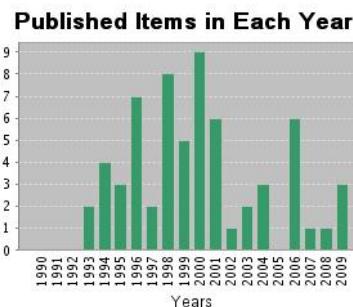
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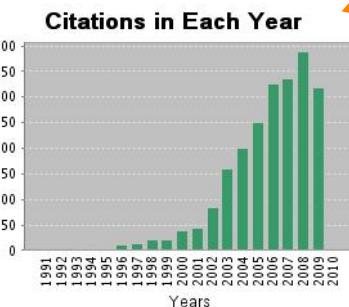
1. Title: [The genetic legacy of the Quaternary ice ages](#)

Citation Report Author=(HEWITT GODFREY)
Timespan=All Years. Databases=BCI.

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h-index [?]: 16

Results: 64

◀◀ Page 1 of 7 ▶▶

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1. Title: [The genetic legacy of the Quaternary ice ages](#)

Author(s): Hewitt Godfrey

Source: Nature (London) Volume: 405 Issue: 6789 Pages: 907-913 Published: 22 June, 2000

2. Title: [Nuclear integrations: Challenges for mitochondrial DNA markers](#)

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153	167	203	176	0	1030	103	
31	33	25	25	0	275	19.64	

BIOSIS CITATION INDEX ANALYZE RESULTS

Page 1 of 10,000 Go Sort by: Times Cited -- highest to lowest

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Rank the records by this field: Publication Years Source Titles Subject Areas Super Taxa Set display options: Show the top 10 Results. Minimum record count (threshold): 2 Sort by: Record count Selected field

Analyze

Use the checkboxes below to view the records. You can choose to view those selected

View Records Exclude Records

Field: Source Titles

	Source Titles
<input type="checkbox"/>	JOURNAL OF VERTEBRATE PALEONTOLOGY
<input type="checkbox"/>	JOURNAL OF PALEONTOLOGY
<input type="checkbox"/>	PALAEOGEOGRAPHY PALAEOCЛИMATOLOGY PALAEOECOLOGY
<input type="checkbox"/>	AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY
<input type="checkbox"/>	PALEONTOLOGICHESKII ZHURNAL
<input type="checkbox"/>	REVIEW OF PALAEOBOTANY AND PALYNOLGY
<input type="checkbox"/>	PALAEONTOLOGY (OXFORD)
<input type="checkbox"/>	AMERICAN JOURNAL OF BOTANY
<input type="checkbox"/>	NATURE (LONDON)
<input type="checkbox"/>	LETHAIA

F MITOCHONDRIAL DNA
74 Published: 1985

Analyze by Super Taxa

A bar chart titled "Analyze by Super Taxa" showing the number of publications for different super taxa. The y-axis represents the number of publications from 0 to 100,000. The x-axis lists the super taxa: ANIMALIA, INVERTEBRATA, CHORDATA, VERTEBRATA, PLANTAE, MAMMALIA, MOLLUSCA, SPERMATOPHYTA, PROTOZOA, and ARTHROPODA. The bars show the following approximate values: ANIMALIA (~98,000), INVERTEBRATA (~50,000), CHORDATA (~48,000), VERTEBRATA (~45,000), PLANTAE (~35,000), MAMMALIA (~28,000), MOLLUSCA (~18,000), SPERMATOPHYTA (~16,000), PROTOZOA (~14,000), and ARTHROPODA (~14,000).

Super Taxa	Number of Publications
ANIMALIA	~98,000
INVERTEBRATA	~50,000
CHORDATA	~48,000
VERTEBRATA	~45,000
PLANTAE	~35,000
MAMMALIA	~28,000
MOLLUSCA	~18,000
SPERMATOPHYTA	~16,000
PROTOZOA	~14,000
ARTHROPODA	~14,000

T155 0.922 %

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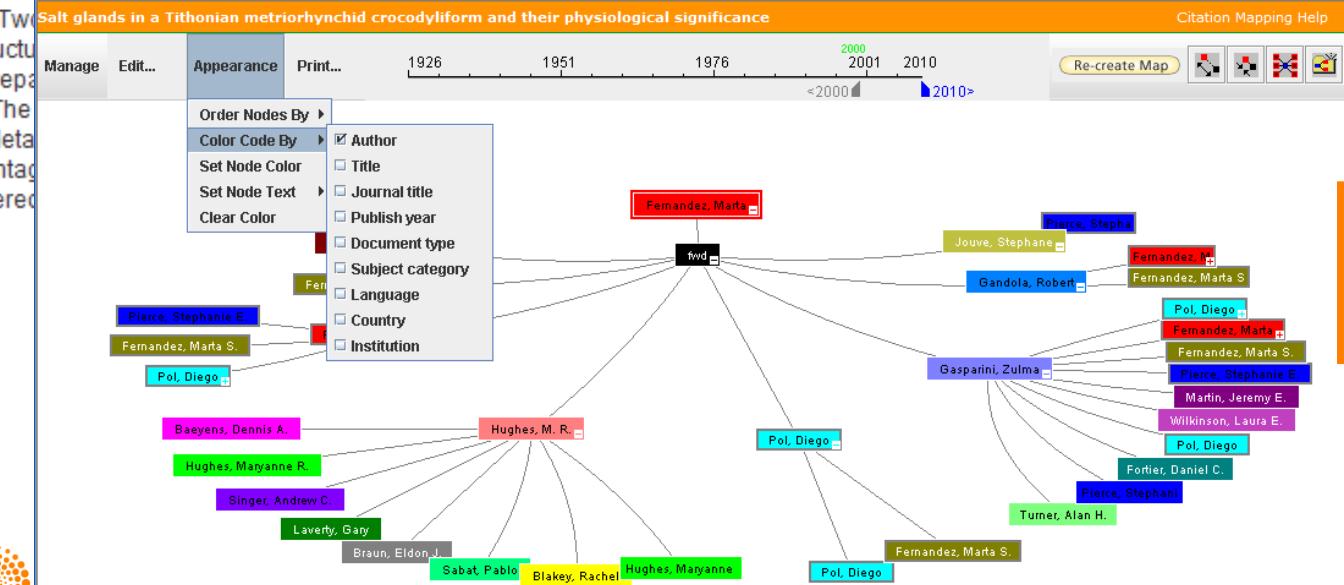
Author(s): Poole, Imogen; Lloyd, Geoffrey E.

Source: Review of Palaeobotany Palynology Volu

Times Cited: 4 (from BIOSIS Citation Index)

Cited Reference Count: 35 [Citation Map](#)

Abstract: Two alternative scanning electron microscopy (SEM) techniques were used to study the crystal structures of salt glands in a Tithonian metriorhynchid crocodyliform and their physiological significance



Citation maps can find relevant papers not returned in your search results



2nd generation citations reveal citation pathways



BIOSIS CITATION INDEX CITED REFERENCE SEARCHING

Cited Reference Search. (Find the articles that cite a person's work)

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* Note: Entering the volume, issue, or page in combination with other fields may reduce the number of cited reference variants found.

Step 2: Select cited references and click "Finish Search."

Hint: Look for cited reference variants (sometimes different pages of the same article are cited or papers are cited incorrectly).

CITED REFERENCE INDEX								
References: 1 - 11 of 11								
Select Page Page 1 of 1 Go ►►								
Select References	Select All*	Clear All	Finish Search					
Select References	Cited Author	Cited Work [SHOW ABBREVIATED TITLES]	Year	Volume	Page	Article ID	Citing Articles **	
<input type="checkbox"/>	Steiper, Michael E.	INFECTION GENETICS AND EVOLUTION Title: Phylogenetic analysis of the promoter region of the CD40L gene in primates and other mammals	2008	8	406	DOI 10.1016/j.meegid.2006.12.004	1	
<input checked="" type="checkbox"/>	Steiper, Michael E.	MOLECULAR PHYLOGENETICS AND EVOLUTION Title: Primate molecular divergence dates	2006	41	384	DOI 10.1016/j.jympev.2006.05.021	44	
<input type="checkbox"/>	Steiper, ME	INFECTION GENETICS AND EVOLUTION Title: The phylogenetic and evolutionary history of a novel alpha-globin-type gene in orangutans (<i>Pongo pygmaeus</i>)	2006	6	277	DOI 10.1016/j.meegid.2005.08.001	1	
<input type="checkbox"/>	Steiper, Michael E.	JOURNAL OF HUMAN EVOLUTION Title: Population history, biogeography, and taxonomy of orangutans (Genus : <i>Pongo</i>) based on a population genetic meta-analysis of multiple loci	2006	50	509	DOI 10.1016/j.jhevol.2005.12.005	12	
<input checked="" type="checkbox"/>	STEIPER ME	MOL PHYLOGENET EVOL	2006		384		1	
<input type="checkbox"/>	Steiper, ME	JOURNAL OF MOLECULAR EVOLUTION Title: The population genetics of the alpha-2 globin locus of orangutans (<i>Pongo pygmaeus</i>)	2005	60	400	DOI 10.1007/s00239-004-0201-x	3	
<input type="checkbox"/>	Steiper, ME	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Title: Genomic data support the hominoid slowdown and an Early Oligocene estimate for the hominoid-cercopithecoid divergence	2004	101	17021	DOI 10.1073/pnas.0407270101	39	

Cited Year(s) ▾
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Cited Issue*
Cited Pages*

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But the same search in Web of
Science does not find the article

It is the Biosis specialized indexing
fields that has found these terms
that are not indexed in Web of
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The Great Divides: *Ardipithecus ramidus* Reveals the Postcrania of Our Last Common Ancestors with African Apes

Author(s): Lovejoy, C. Owen (olovejoy@aol.com) ; Suwa, Gen (suwa@um.u-tokyo.ac.jp) ; Simpson, Scott W.; Matternes, Jay H.; White, Tim D.

Source: Science (Washington D C) Volume: 326 Issue: 5949 Pages: 100-106 DOI: 10.1126/science.1175833 Published: OCT 2 2009

Times Cited: 0 (from BIOSIS Citation Index)

Cited Reference Count: 78 [Citation Map](#)

Abstract: Genomic comparisons have established the chimpanzee and bonobo as our closest living relatives. However, the intricacies of gene regulation and expression caution against the use of these extant apes in deducing the anatomical structure of the last common ancestor that we shared with them. Evidence for this structure must therefore be sought from the fossil record. Until now, that record has provided few relevant data because available fossils were too recent or too incomplete. Evidence from *Ardipithecus ramidus* now suggests that the last common ancestor lacked the hand, foot, pelvic, vertebral, and limb structures and proportions specialized for suspension, vertical climbing, and knuckle-walking among extant African apes. If this hypothesis is correct, each extant African ape genus must have independently acquired these specializations from more generalized ancestors who still practiced careful arboreal climbing and bridging. African apes and hominids acquired advanced

Major Concepts: Skeletal System (Movement and Support); Paleobiology; Evolution and Adaptation

CONCEPT CODE: 01500, Evolution; 05000, Physical anthropology and ethnobiology; 18004, Bones, joints, fasciae, connective and adipose tissue - Physiology and biochemistry; 62520, Chordata: general and systematic - Mammalia; 63000, Paleozoology; 64500, Paleobiology

Taxonomic Data:

SUPER TAXA	TAXA NOTES	Organism Classifier	Organism Name	Details
Primates, Mammalia, Vertebrata, Chordata, Animalia	Animals, Chordates, Humans, Mammals, Primates, Vertebrates	Hominidae [86215]	<i>Ardipithecus ramidus</i>	Fossil
Primates, Mammalia, Vertebrata, Chordata, Animalia	Animals, Chordates, Mammals, Nonhuman Mammals, Nonhuman Vertebrates, Nonhuman Primates, Primates, Vertebrates	Pongidae [86235]	chimpanzee	
			gorilla	
			ape	Fossil

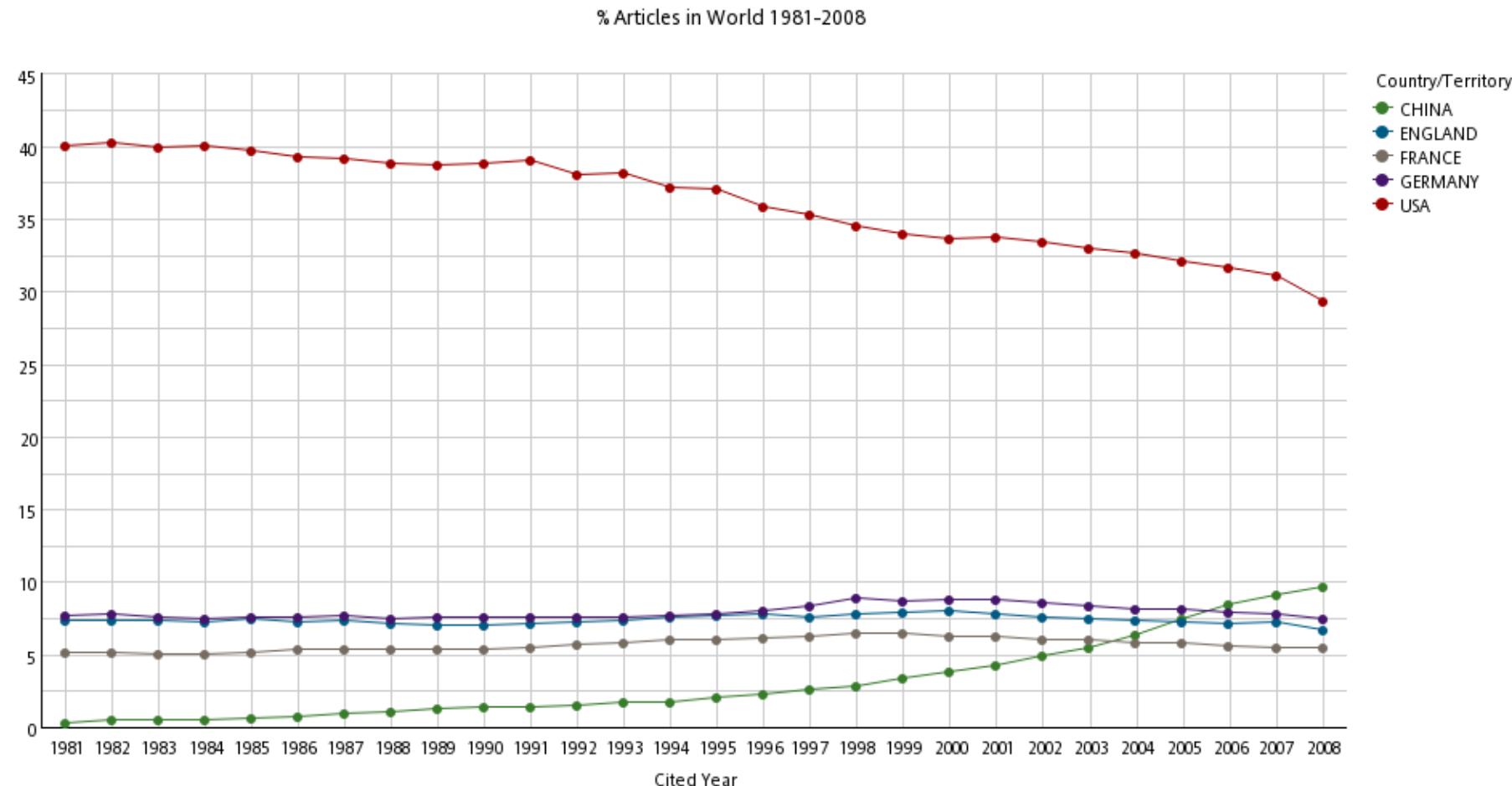
Geographic Data:

Term	GEOPOLITICAL TERMS	ZOOGEOGRAPHICAL REGION
Africa	Ethiopian region	Palearctic region

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AND

 in *Example: Zheng S**

AND

 in *Example: Chinese Journal of Semiconductors OR Acta Physica Sinica*[Add Another Field >>](#)Searches can be in English or Chinese ([searching in Chinese](#))

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富氧条件下氮氧化物的选择性催化还原I.Ag/Al₂O₃催化剂上C₃H₆选择性催化还原NO的性能

Selective Catalytic Reduction of NO in the Presence of Excess Oxygen I.SCR of NO with C₃H₆ over Ag/Al₂O₃

Author(s): 贺泓 ; 张润铎 ; 余运波 ; 刘俊峰

Author(s): He Hong ; Zhang Runduo ; Yu Yunbo ; Liu Junfeng

Source: 催化学报 Volume: 24 Issue: 10 Pages: 788-794 Article Number: 0253-9837(2003)24:10<788:FYTJXD>2.0.TX;2-X Published: 2003

Source: Chinese Jou

Times Cited in Chinese Databases: 19 in All Databases

Cited Reference Count: 14 in Web of Science

Abstract: 利用自行研磨法制备了Ag/Al₂O₃催化剂,研究了在富氧条件下C₃H₆选择性催化还原NO性能。当GHSV=50 000 h⁻¹(-4)和θ=430~550℃时,催化剂对NO选择性转化率为90%以上,NO转化率随水的加入而降低,这是由于R-ONO和R-NO₂的形成被抑制。

选择性催化还原NO性能与水的加入量有关,当GHSV=50 000 h⁻¹(-4)和θ=430~550℃条件下,催化剂对NO选择性转化率为90%以上,NO转化率随水的加入而降低,这是由于R-ONO和R-NO₂的形成被抑制。

Abstract: The selective catalytic reduction (SCR) of NO with C₃H₆ over Ag/Al₂O₃ in excess oxygen was studied. The Ag particles could evenly be dispersed on the surface of Al₂O₃ with an optimal Ag loading of 4%~6% and an average size of 15 nm. The NO conversion over 4%Ag/Al₂O₃ catalyst was above 90% under the conditions of GHSV= 50 000 h⁻¹(-4) and θ = 430 ~ 550 °C . Organic nitro-compounds (R-ONO, R-NO₂) and nitrogen dioxide formed during the SCR reaction resulted in the difference between NO and NO_x conversion. The optimal NO reduction reactivity over Ag/Al₂O₃ was achieved in the presence of 7% H₂O. The NO conversion decreased with the introduction of water, compared with the condition in the absence of water, because the formation of R-ONO and R-NO₂ and subsequently their decomposition into Ag-NCO and Al-NCO on the surface of were suppressed.

Document Type: Article

Language: Chinese

Author Keywords: 银; 氧化铝; 负载型催化剂; 氮氧化物; 选择性催化还原; 丙烯

Author Keywords: silver; alumina; supported catalyst; nitrogen oxide; selective catalytic reduction; propene

Addresses:

贺泓, 中国科学院生态环境研究中心大气化学与大气污染控制技术室, 北京 100085, 中国; 张润铎, 中国科学院生态环境研究中心大气化学与大气污染控制技术室, 北京 100085, 中国; 余运波, 中国科学院生态环境研究中心大气化学与大气污染控制技术室, 北京 100085, 中国; 刘俊峰, 中国科学院生态环境研究中心大气化学与大气污染控制技术室, 北京 100085, 中国

Addresses:

He Hong, Department of Air Pollution Control, Research Center for eco-Environmental Sciences, The Chinese Academy of Sciences, Beijing 100085, China.

Cited by: 19
This article has been cited 19 times (from All Databases).

Kumar, Pullur Anil. Novel Silver Loaded Hydroxyapatite Catalyst for the Selective Catalytic Reduction of NO_x by Propene. CATALYSIS LETTERS, NOV 2008.

Song Xiaoping. Selective catalytic reduction of NO_x by ethanol and removal of by-products over combined catalyst (Ag/Al₂O₃+Cu/Ce(x)/Al₂O₃). CHINESE JOURNAL OF CATALYSIS, JUN 2008.

Runduo. Lean reduction of NO_x over ag/alumina derived from AlOOH and Al(OH)(3). APPLIED PHYSICS B-ENVIRONMENTAL, FEB 7 2008.

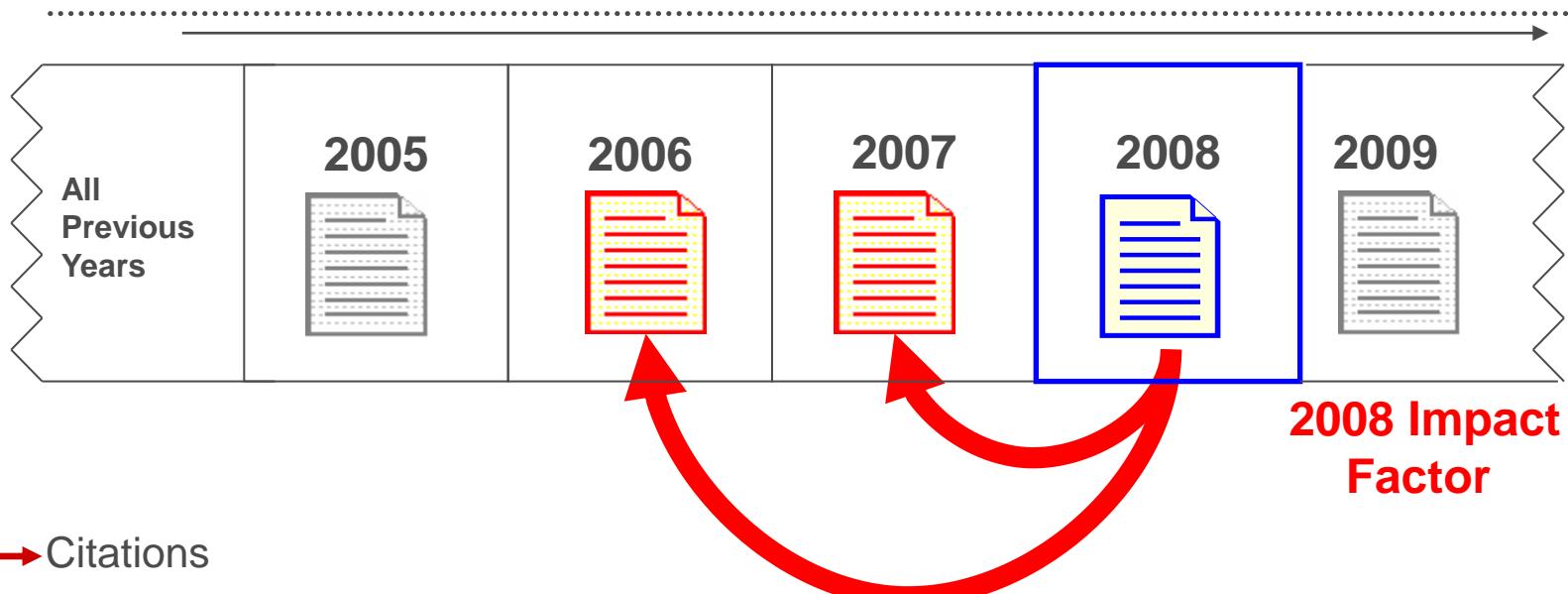
[19 citing articles]

Cited References: 19
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Citation Map

Bibliographic information in English and Chinese

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CALCULATING 2008 IMPACT FACTOR

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Citations in 2008

To items published in 2007 = 78

To items published in 2006 = 100

Sum = 178

178

= 0,784

Number of items

Published in 2007 = 118

Published in 2006 = 109

Sum = 227

227

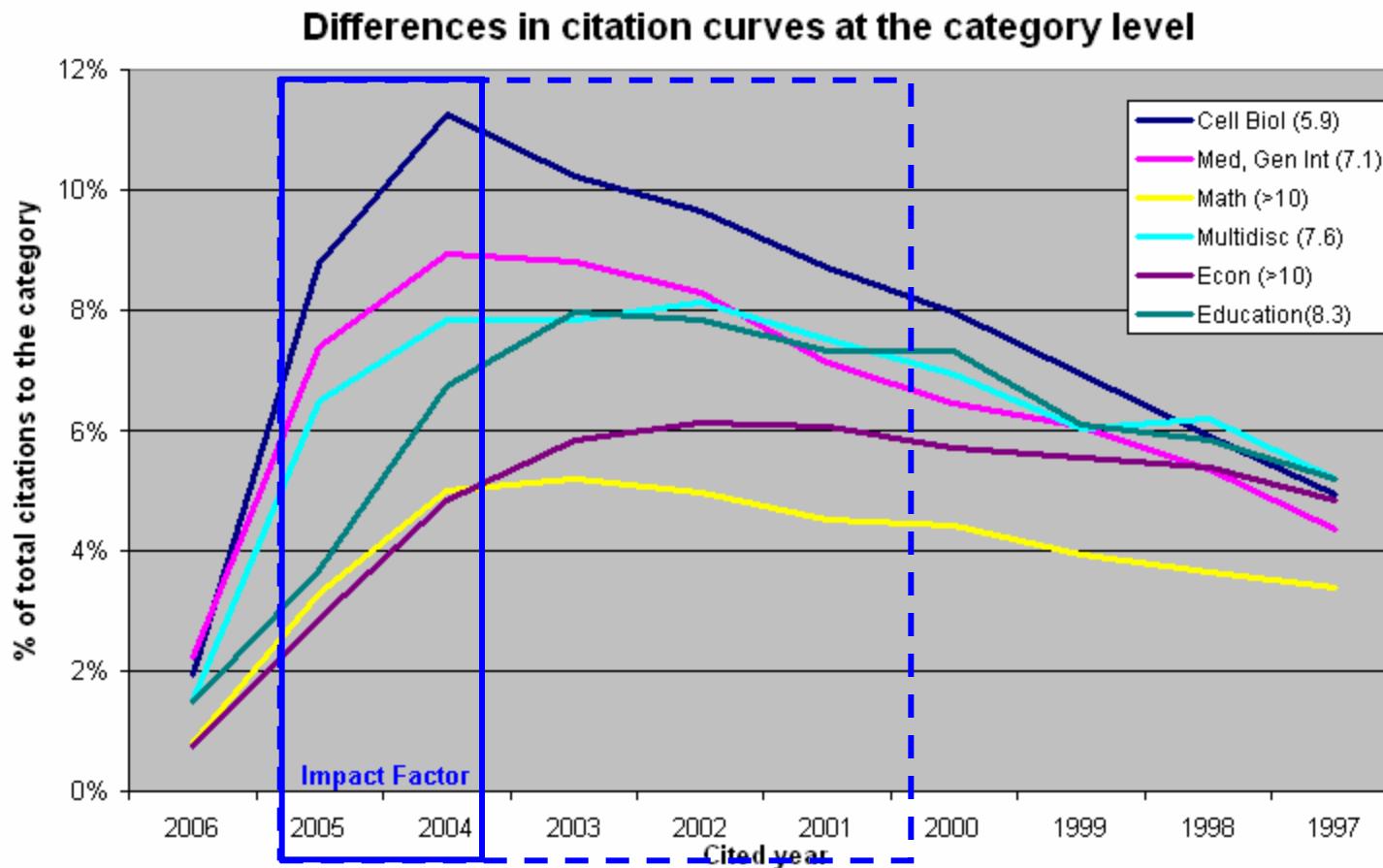


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JOURNAL IMPACT FACTOR CZECH JOURNALS

Mark	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	Total Cites	JCR Data <small>i</small>					Eigenfac Score
					Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	
□	1	PRESLIA	0032-7786	428	2.396	1.982	0.042	24	5.6	0.00141
□	2	PHYSIOL RES	0862-8408	1658	1.653	1.739	0.206	175	4.9	0.00513
□	3	FOLIA PARASIT	0015-5683	835	1.307	1.268	0.375	40	9.6	0.00251
□	4	FOLIA MICROBIOL	0015-5632	997	1.172	0.897	0.156	90	6.5	0.00184
□	5	FOLIA BIOL-PRAGUE	0015-5500	352	1.140	1.118	0.000	34	6.6	0.00107
□	6	PHOTOSYNTHETICA	0300-3604	1235	1.000	1.105	0.121	99	7.8	0.00221
□	7	FOLIA GEOBOT	1211-9520	570	0.964	1.322	0.625	24	9.1	0.00143
□	8	EUR J ENTOMOL	1210-5759	996	0.913	1.025	0.148	108	6.3	0.00291
□	9	COLLECT CZECH CHEM C	0010-0765	2570	0.784	0.870	0.056	125	>10.0	0.00360
□	10	STUD GEOPHYS GEOD	0039-3169	417	0.770	0.799	0.436	39	6.9	0.00133
□	11	CZECH J ANIM SCI	1212-1819	346	0.735	0.665	0.125	64	4.2	0.00069
□	12	VET MED-CZECH	0375-8427	410	0.659	0.670	0.089	79	5.2	0.00104
□	13	CERAM-SILIKATY	0862-5468	148	0.644	0.526	0.050	40	4.5	0.00035
□	14	CHEM LISTY	0009-2770	494	0.593	0.538	0.103	97	5.5	0.00081
□	15	CZECH J PHYS	0011-4626	1340	0.574	0.440		0	5.5	0.00641

CITATION BEHAVIOUR VARIES BETWEEN SUBJECT CATEGORIES



JOURNAL 5-YEAR IMPACT FACTOR CZECH JOURNALS

Mark	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	JCR Data <small>i</small>					Eigenfac Score	
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles		
□	1	PRESLIA	0032-7786	428	2.396	1.982	0.042	24	5.6	0.00141
□	2	PHYSIOL RES	0862-8408	1658	1.653	1.739	0.206	175	4.9	0.00513
□	3	FOLIA PARASIT	0015-5683	835	1.307	1.268	0.375	40	9.6	0.00251
□	4	FOLIA MICROBIOL	0015-5632	997	1.172	0.897	0.156	90	6.5	0.00184
□	5	FOLIA BIOL-PRAGUE	0015-5500	352	1.140	1.118	0.000	34	6.6	0.00107
□	6	PHOTOSYNTHETICA	0300-3604	1235	1.000	1.105	0.121	99	7.8	0.00221
□	7	FOLIA GEOBOT	1211-9520	570	0.964	1.322	0.625	24	9.1	0.00143
□	8	EUR J ENTOMOL	1210-5759	996	0.913	1.025	0.148	108	6.3	0.00291
□	9	COLLECT CZECH CHEM C	0010-0765	2570	0.784	0.870	0.056	125	>10.0	0.00360
□	10	STUD GEOPHYS GEOD	0039-3169	417	0.770	0.799	0.436	39	6.9	0.00133
□	11	CZECH J ANIM SCI	1212-1819	346	0.735	0.665	0.125	64	4.2	0.00069
□	12	VET MED-CZECH	0375-8427	410	0.659	0.670	0.089	79	5.2	0.00104
□	13	CERAM-SILIKATY	0862-5468	148	0.644	0.526	0.050	40	4.5	0.00035
□	14	CHEM LISTY	0009-2770	494	0.593	0.538	0.103	97	5.5	0.00081
□	15	CZECH J PHYS	0011-4626	1340	0.574	0.440		0	5.5	0.00641

GOVERNMENTS AND INSTITUTIONS USING TR DATA FOR EVALUATION (INCL.)

- Czech Republic: Czech Academy of Sciences; Government
- France: Min. de la Recherche, OST - Paris, CNRS
- Germany: Max Planck Society, several gov't labs, DKFZ, MDCUS: National Institutes of Health
- United Kingdom: King's College London; HEFCE
- European Union: EC's DGXII(Research Directorate)
- US: NSF: biennial Science & Engineering Indicators report (since 1974)
- Canada: NSERC, FRSQ (Quebec), Alberta Research Council
- Australian Academy of Science, gov't lab CSIRO
- Japan: Ministry of Education, Ministry of Economy, Trade & Industry
- People's Republic of China: Chinese Academy of Science

CHANGING NATURE OF CZECH RESEARCH

Web of Science® with Conference Proceedings

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Timespan=All Years. Databases=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH.

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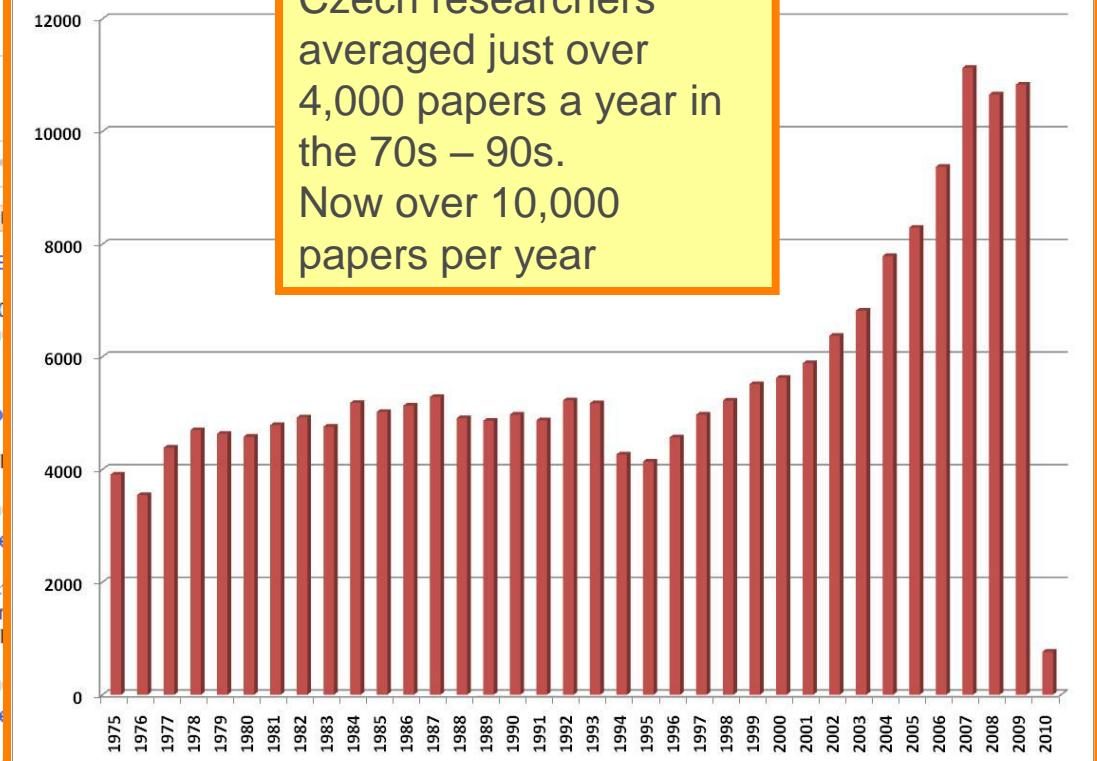
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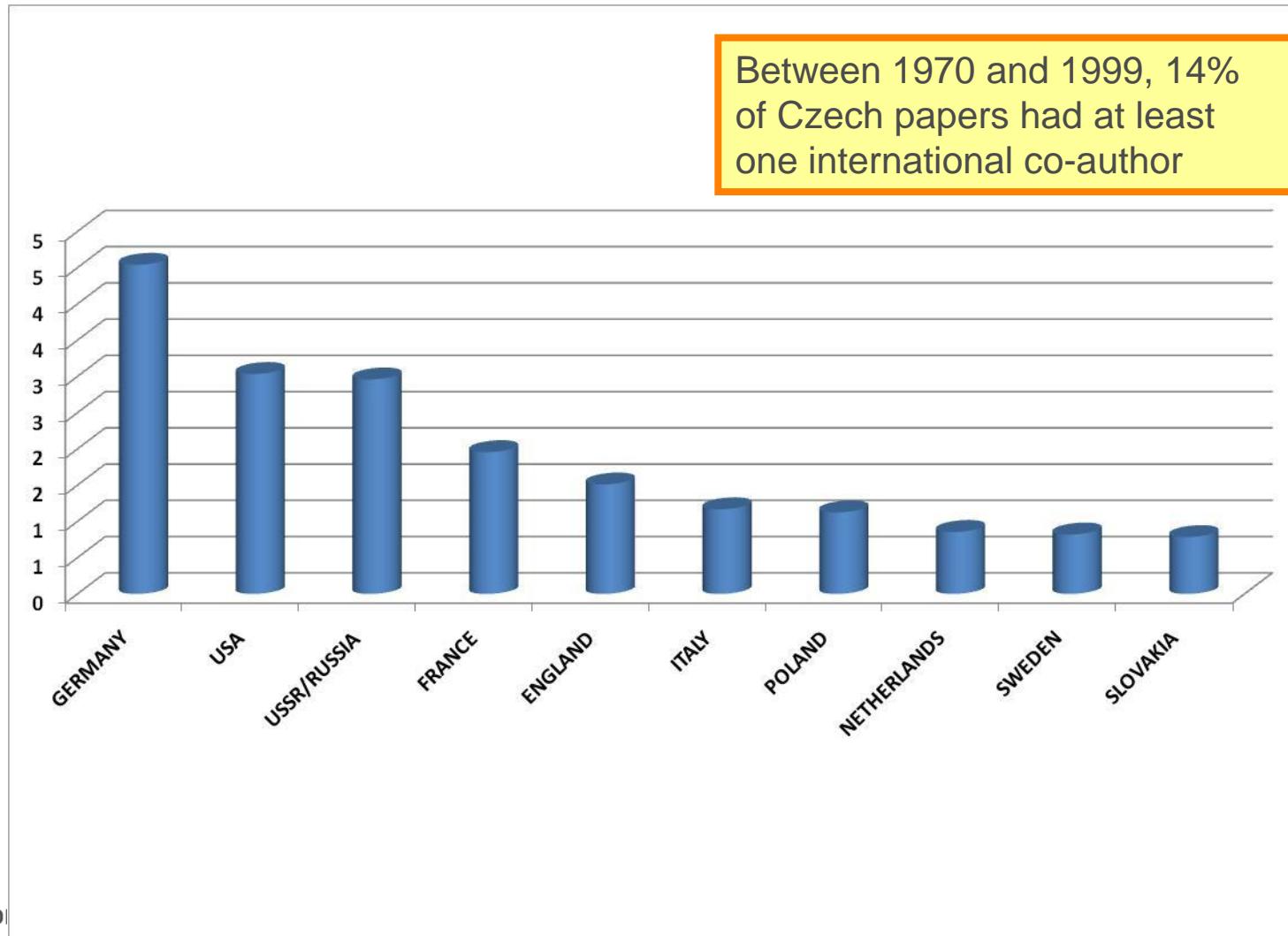
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Source: DYES AND PIGMENTS Volume: 85 Issue: 3 Pages: 171-176 DOI: 10.1016/j.dyepig.2009.11.001 Published: MAY 2010
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Czech researchers averaged just over 4,000 papers a year in the 70s – 90s. Now over 10,000 papers per year

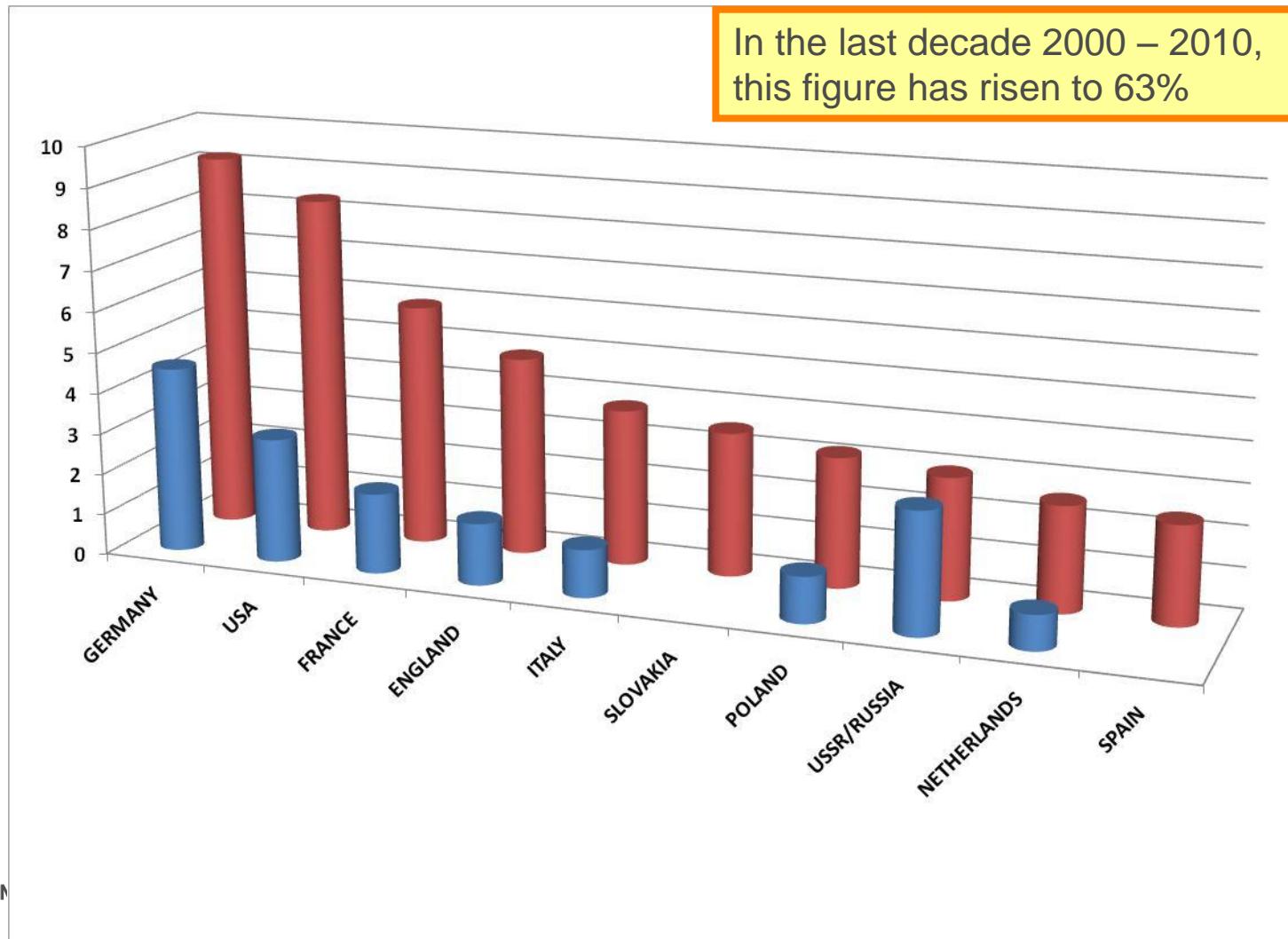


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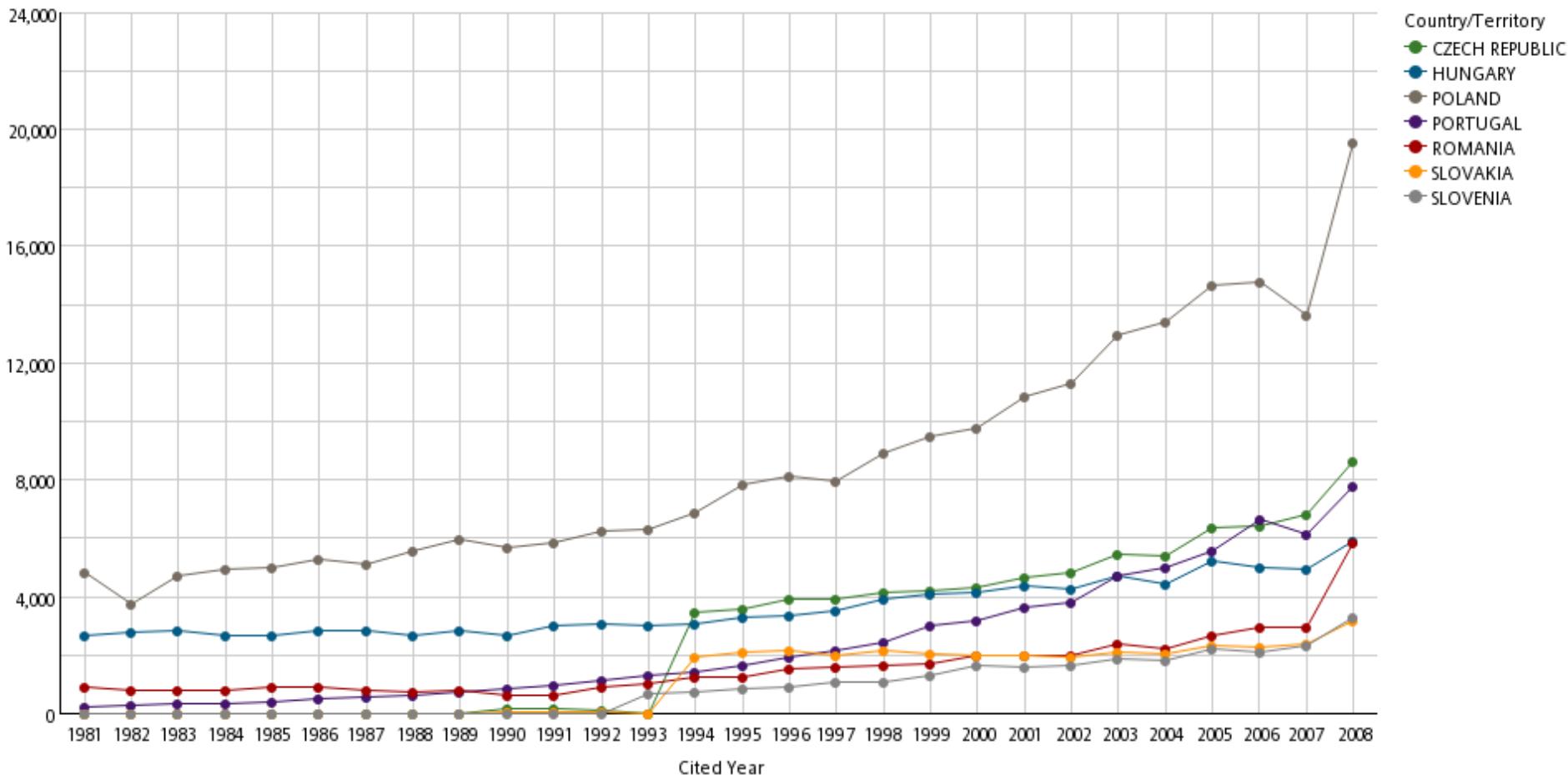


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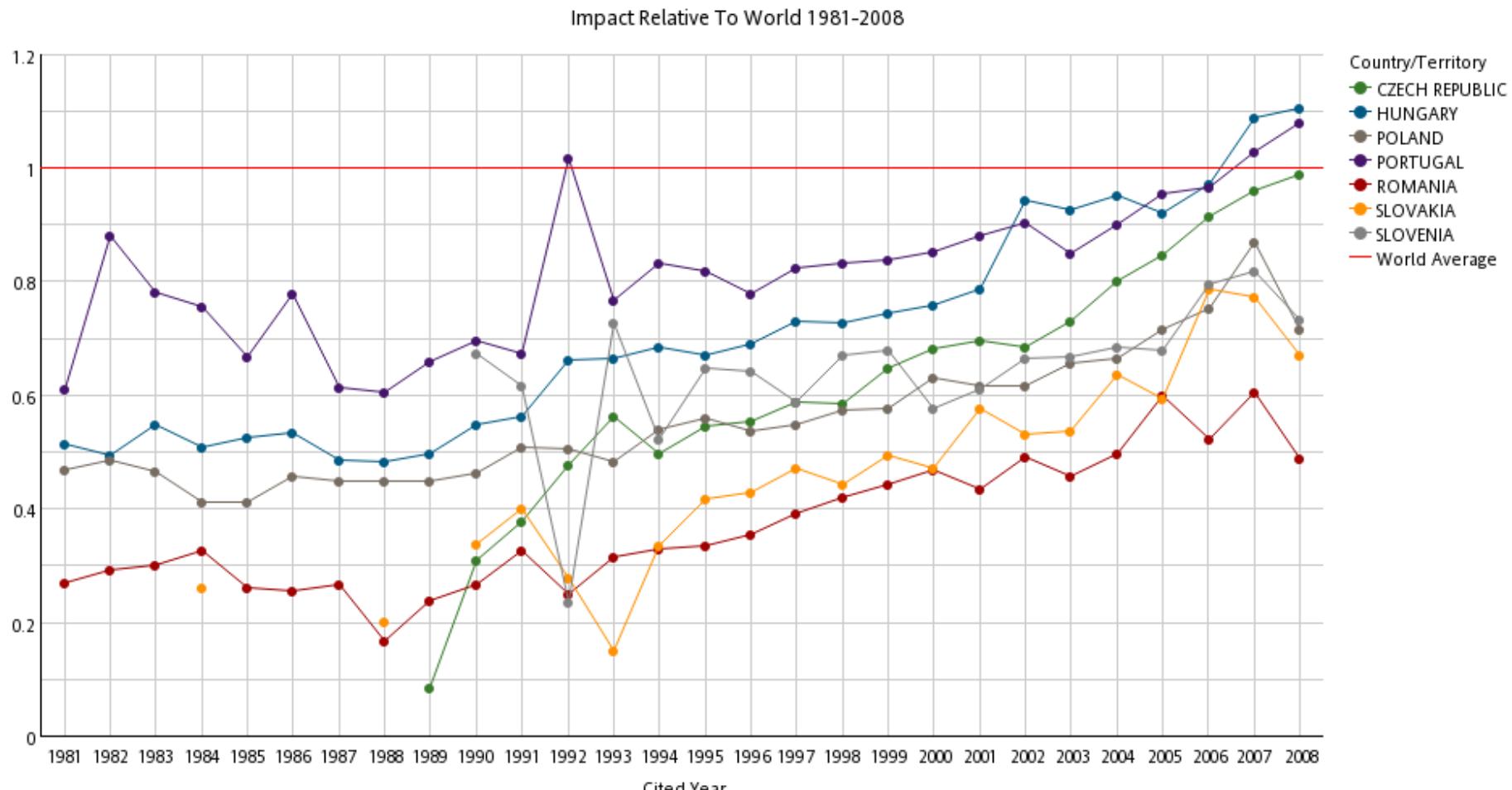


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Articles 1981-2008



SCIENTIFIC RESEARCH IMPACT IN CENTRAL EUROPE



CZECH RESEARCH BY OUTPUT AND IMPACT

	Field	World Share (%) 2004 - 2008	No. of Papers 2004 - 2008	Cites per Paper	Impact Relative to World Average (%)
1	Plant & Animal Science	1,19	3,207	2,93	92
2	Space Science	1,12	670	5,86	82
3	Mathematics	1,04	1,304	1,24	91
4	Chemistry	0,96	5,641	4,14	82
5	Microbiology	0,95	780	4,44	63
6	Physics	0,93	4,369	4,56	110
7	Biology & Biochemistry	0,89	2,428	4,37	59
8	Materials Science	0,87	2,015	2,33	77
9	Agricultural Sciences	0,79	784	1,92	67
10	Geosciences	0,79	1,073	3,04	77
11	Economics & Business	0,76	554	0,66	31
12	Environment/Ecology	0,73	964	4,45	100
13	Molecular Biology & Genetics	0,58	805	7,18	63
14	Computer Science	0,57	855	1,03	68
15	Pharmacology & Toxicology	0,57	521	5,37	99
16	Engineering	0,51	2,026	2,35	119
17	Immunology	0,42	253	5,85	59
18	Clinical Medicine	0,38	3,791	5,96	103
19	Neuroscience & Behavior	0,28	413	5,7	71
20	Psychiatry/Psychology	0,28	330	1,9	45
21	Social Sciences, general	0,25	501	0,68	34

BENCHMARK YOUR PAPERS AGAINST GLOBAL AVERAGES – IS THIS A HIGHLY CITED PAPER?

Total Citations	2nd Generation Citations	2nd Generation Citations per Citing article	Journal Expected Citations (JXC)	Category Expected Citations (CXC)	Percentile in Field	Journal Impact Factor	Publication Year	Field	Article Type	Author	Journal	
View Ranking												
40	776	19.40	34.30	18.83	12.92	10.90	2004	HEMATOLOGY	ARTICLE	CALLE, Y.	BLOOD	WASp deficiency in mice results in failure to form osteoclast sealing zones and defects in bone resorption

Articles published in 'Blood' from 2004 have been cited 34,30 times

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WASp deficiency in mice results in failure to form osteoclast sealing zones and defects in bone resorption

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Author(s): Calle Y, Jones GE, Jagger C, Fuller K, Blundell MP, Chow J, Chambers T, Thrasher AJ

Source: BLOOD Volume: 103 Issue: 9 Pages: 3552-3561 Published: MAY 1 2004

Times Cited: 44 References: 36 Citation Map

Abstract: No defects related to deficiency of the Wiskott-Aldrich Syndrome protein (WASp) have been described in osteoclasts. Here we show that there are significant morphologic and functional abnormalities. WASp-null cells spread over a much larger surface area and are highly polykaryotic. In their migratory phase, normal cells assemble clusters of podosomes behind their leading edges, whereas WASp-null cells in the bone resorptive phase multiple podosomes are densely aggregated, often obscuring the leading edge. WASp-null cells are unable to form sealing zones and therefore are unable to resorb bone surfaces. On bone surfaces, this results in a failure to form actin rings at sealing zones. Complementation of WASp-null osteoclasts with an enhanced green fluorescent protein (eGFP)-WASp fusion protein restores normal cytoskeletal architecture. These structural disturbances translate into abnormal patterns of bone resorption both in vitro on bone slices and in vivo. Although physiologic steady-state levels of bone resorption are maintained, a major impairment is observed when WASp-null animals are exposed to a resorative challenge. Our results provide clear evidence that WASp is a critical component of podosomes in osteoclasts and indicate a nonredundant role for WASp in the dynamic organization of these actin structures during bone resorption. (C) 2004 by The American Society of Hematology.

Document Type: Article

Language: English

KeyWords Plus: WISKOTT-ALDRICH-SYNDROME; SYNDROME PROTEIN; ACTIN DYNAMICS; CELLS; PODOSOMES; RHO; ORGANIZATION; CYTOSKELETON; MACROPHAGES; ACTIVATION

Reprint Address: Calle, Y (reprint author), Kings Coll London, Randall Ctr Mol Mech Cell Fund, New Hunts House, Guys Campus, London SE1 1UL, England

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Publisher: AMER SOC HEMATOLOGY, 1900 M STREET NW SUITE 200, WASHINGTON, DC 20036 USA

Subject Category: Hematology

Cited by: 44

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Bouma G, Burns SO, Thrasher AJ Wiskott-Aldrich Syndrome: Immunodeficiency resulting from defective cell migration and impaired immunostimulatory activation. *IMMUNOBIOLOGY* 214: 9-10 Sep. Iss. SI 778-790 SEP 2009

Chelliah MA, Schaller MD Activation of Src Kinase by Protein-Tyrosine Phosphatase-PEST in Osteoclasts: Comparative Analysis of the Role of PEST in the PTPase and Protein-Tyrosine Phosphatase Inhibitor on Src Activation In Vitro. *JOURNAL OF CELLULAR PHYSIOLOGY* 220: 2 382-393 AUG 2009

Bonciardi M, Marangoni F, Alati A, et al. Recent Advances in Understanding the pathophysiology of Wiskott-Aldrich syndrome. *BLOOD* 113: 6288-6295 JUN 18 2009

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5,226	104,835	20.06	403.21	64.92	0.007	12.77	2003	ASTRONOMY & ASTROPHYSICS	REVIEW	SPERGEL, DN <i>et al.</i>	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	First-year Wilkinson Microwave Anisotropy Probe (WMAP) observations: Determination of cosmological parameters	148	175-194
2,409	16,341	6.78	150.36	26.77	0.008	12.77	2007	ASTRONOMY & ASTROPHYSICS	REVIEW	SPERGEL, DN <i>et al.</i>	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	Three-year Wilkinson Microwave Anisotropy Probe (WMAP) observations: Implications for cosmology	170	377-408
2,315	51,709	22.34	82.82	17.64	0.01	12.77	2003	ASTRONOMY & ASTROPHYSICS	ARTICLE	BENNETT, CL <i>et al.</i>	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	First-year Wilkinson Microwave Anisotropy Probe (WMAP) observations: Preliminary maps and basic results	148	1-27
665	25,847	38.87	82.82	17.64	0.07	12.77	2003	ASTRONOMY & ASTROPHYSICS	ARTICLE	PEIRIS, HV <i>et al.</i>	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	First-year Wilkinson Microwave Anisotropy Probe (WMAP) observations: Implications for inflation	148	213-231
454	24,606	54.20	82.82	17.64	0.13	12.77	2003	ASTRONOMY & ASTROPHYSICS	ARTICLE	HINSHAW, G <i>et al.</i>	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	First-year Wilkinson Microwave Anisotropy Probe (WMAP) observations: The angular power spectrum	148	135-159
387	6,280	16.23	150.36	26.77	0.03	12.77	2007	ASTRONOMY & ASTROPHYSICS	REVIEW	HINSHAW, G <i>et al.</i>	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	Three-year Wilkinson Microwave Anisotropy Probe (WMAP(1)) observations: Temperature analysis	170	288-334
380	19,412	51.08	82.82	17.64	0.18	12.77	2003	ASTRONOMY & ASTROPHYSICS	ARTICLE	KOMATSU, E <i>et al.</i>	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	First-year Wilkinson Microwave Anisotropy Probe (WMAP) observations: Tests of Gaussianity	148	119-134
350	16,237	46.39	82.82	17.64	0.23	12.77	2003	ASTRONOMY & ASTROPHYSICS	ARTICLE	VERDE, L <i>et al.</i>	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	First-year Wilkinson Microwave Anisotropy Probe (WMAP) observations: Parameter estimation methodology	148	195-211
312	6,285	20.14	150.36	26.77	0.05	12.77	2007	ASTRONOMY & ASTROPHYSICS	REVIEW	PAGE, L <i>et al.</i>	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	Three-year Wilkinson Microwave Anisotropy Probe (WMAP) observations: Polarization analysis	170	335-376



WHICH AUTHORS' PAPERS HAVE PERFORMED BEST IN THEIR FIELD?

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Author	Times Cited	Web of Science Documents	Average Cites per Document	h-index	Journal Actual/Expected Citations	Category Actual/Expected Citations	Average Percentile
Gavin	1,520	19	80.00	13	2.99	11.32	18.23
Jin Yin	1,787	27	66.19	10	3.61	8.41	28.95
King Pan	676	9	75.11	5	2.02	8.04	26.04
Leo	5,711	55	103.84	32	3.20	7.63	14.65
Patsy	734	9	8	8	1.88	7.55	23.44
Connie	576	9	6	6	3.50	6.66	10.38
Honglin	1,609	28	5	5	3.28	6.41	25.04
Hoi Fung	671	10	6	—	1.98	6.13	29.04
ai Lan	275	6	45.83	5	4.01	5.48	25.92
ian, Grainne	652	18	36.22	9	1.75	5.20	18.62
Patrick	138	16	21.12	7	3.14	4.73	40.78
Yi	807	16	50.44	11	2.27	4.62	18.04
g, Chung	1,332	26	51.23	17	2.03	4.61	22.34
i	135	7	19.29	5	2.54	4.55	29.38
g, Michael	121	6	20.17	3	2.12	4.50	32.89
Fuchun	543	23	23.61	10	2.50	4.49	29.70
ames	5,881	355	16.57	40	4.10	4.46	36.94
Jinxia	457	10	15.70	8	2.92	4.43	19.82
Pak Chung	1,385	49	27	15	2.85	4.36	29.08
Bojian	1,925	35	35.00	16	1.88	4.30	30.49

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WITH WHOM DOES OUR FACULTY COLLABORATE?

Institution Ranking (source articles)

Sort By: Total Citations ▾

Rank	Institution	Total Citations	Total Articles	Avg Cites per Article	h-index	Journal Actual/Expected Cites (JXC)	Category Actual/Expected Cites (CXC)	Mean Percentile
1	DUBLIN CITY UNIVERSITY	42251	4026	10.9	70	1.22	1.19	51.46
2	TRINITY COLLEGE DUBLIN	2767	230	12.03	25	1.25	1.31	48.39
3	QUEENS UNIV BELFAST	2488	112	22.02	29	1.40	1.91	33.01
4	UNIVERSITY COLLEGE DUBLIN	2169	212	10.23	25	1.07	1.07	49.22
5	UNIVERSITY COLLEGE CORK	1078	72	14.97	19	1.81	1.76	53.26
6	TEAGASC	932	45	20.71	17	1.56	1.42	39.56
7	LEIDEN UNIV	680	21	32.38	14	1.38	2.29	21.94
8	CEA	604	23	26.26	12	1.94	3.52	36.08
9	NEW MEXICO STATE UNIV	594	21	28.29	15	1.80	1.91	20.66
10	UNIV CALIF BERKELEY	567	19	29.84	11	1.72	3.18	32.83
11	UNIV HAMBURG	555	20	27.75	13	1.67	2.33	33.07
12	RUSSIAN ACADEM SCI	536	37	14.49	12	1.54	1.98	50.49
13	DUBLIN INST ADV STUDIES	523	43	12.16	11	0.97	0.81	51.30
14	UNIV CONNECTICUT	474	35	13.54	11	1.82	2.63	42.06
15	NUI MAYNOOTH	449	35	12.83	10	1.73	1.64	50.96
16	QUEENSLAND INST MED RES	425	12	35.42	10	1.73	1.70	28.92
17	ABO ACAD UNIV	424	7	60.57	7	3.16	3.97	14.68
18	UNIV BIELEFELD	422	11	38.36	8	2.83	2.91	36.41
19	STATE UNIV LEIDEN	390	7	55.71	7	2.86	3.82	10.66
20	DUBLIN INSTITUTE OF TECHNOLOGY	374	60	6.23	12	0.65	0.88	57.41

WHICH OF THOSE COLLABORATIONS ARE THE MOST VALUABLE?

Rank	Institution	Total Citations	Total Articles	Avg Cites per Article	h-index	Journal Actual/Expected Cites (JXC)	Category Actual/Expected Cites (CXC)	Mean Percentile
1	UNIV SAO PAULO	297	10	29.70	8	9.35	10.49	2.76
2	NEW MEXICO STATE UNIV	594	21	28.29	15	1.80	1.91	20.66
3	LEIDEN UNIV	680	21	32.38	14	1.38	2.19	21.94
4	QUEENSLAND INST MED RES	425	12	35.42	10	1.73	1.70	28.92
5	UNIV BOLOGNA	285	14	20.36	9	1.53	2.11	30.56
6	UNIV UPPSALA	197	12	16.42	8	1.05	1.67	31.16
7	ECOLE POLYTECH	183	11	16.64	7	2.04	2.14	31.32
8	UNIV QUEENSLAND	334	12	27.83	9	1.34	1.29	31.56
9	UNIV MASSACHUSETTS	186	15	12.40	7	2.35	2.13	32.36
10	UNIV CALIF BERKELEY	567	19	29.84	11	1.72	3.18	32.83
11	QUEENS UNIV BELFAST	2,466	112	22.02	29	1.40	1.91	33.01
12	UNIV HAMBURG	555	20	27.75	13	1.67	2.13	33.07
13	UNIV LONDON IMPERIAL COLL SCI TECHNOL & MED	212	12	17.67	6	2.56	2.95	33.42
14	CHILDRENS NATL MED CTR	136	11	12.36	6	2.76	4.10	33.97
15	UNIV PARIS 11	276	11	25.09	7	1.04	2.40	34.52
16	CEA	604	23	26.26	12	1.94	3.32	36.08
17	UNIV BIELEFELD	422	11	38.36	8	2.83	2.91	36.41
18	YALE UNIV	168	14	12.00	6	3.07	4.13	37.23
19	UNIV ULSTER	206	15	13.73	8	1.71	1.45	37.46
20	TECH UNIV DENMARK	136	10	13.60	6	1.47	3.22	37.60

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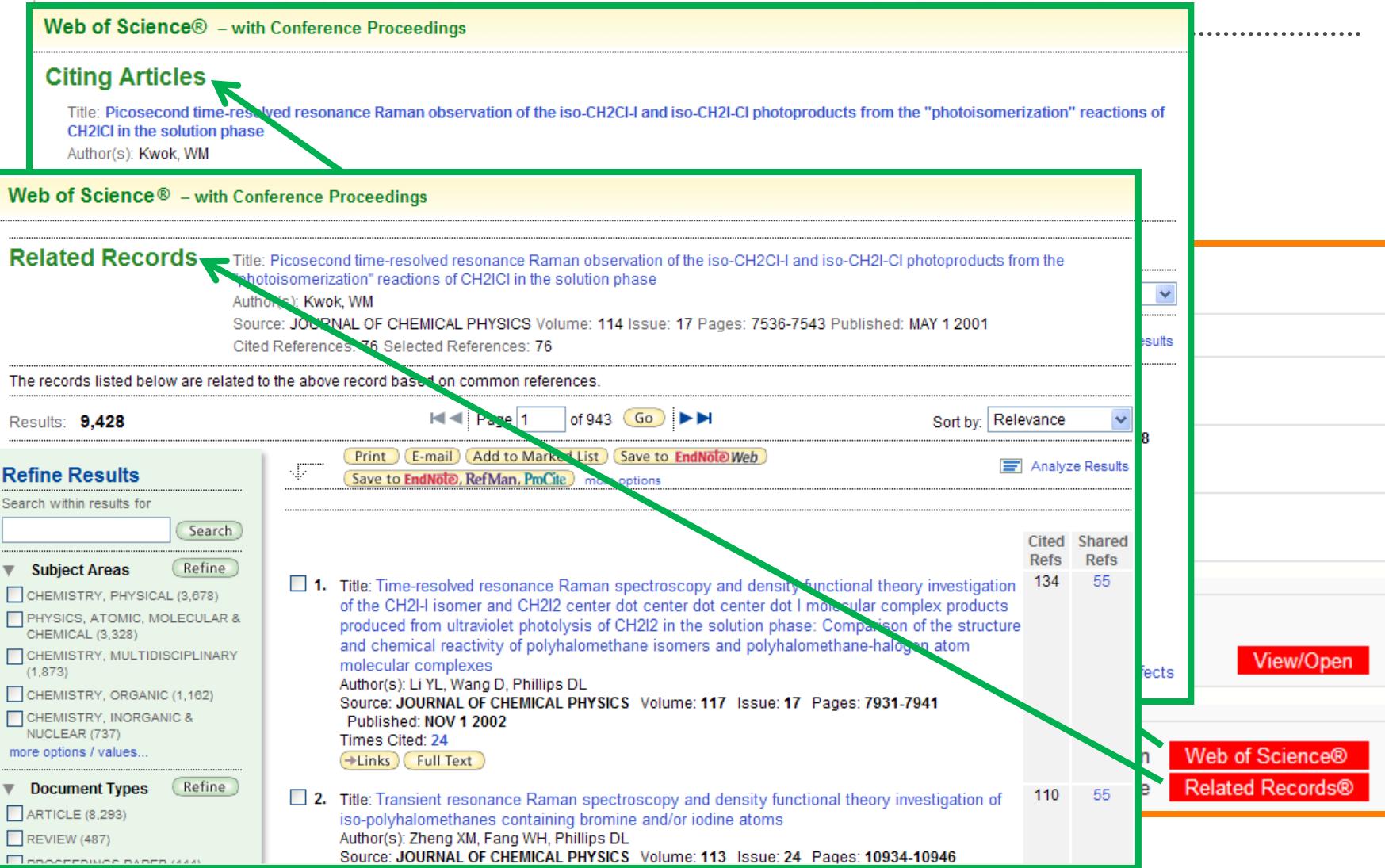
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Author(s): Li YL, Wang D, Phillips DL
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2. Title: Transient resonance Raman spectroscopy and density functional theory investigation of iso-polyhalomethanes containing bromine and/or iodine atoms
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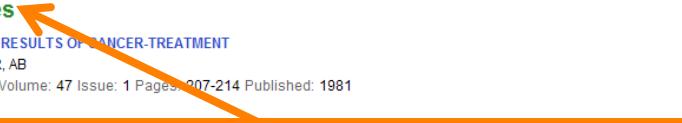
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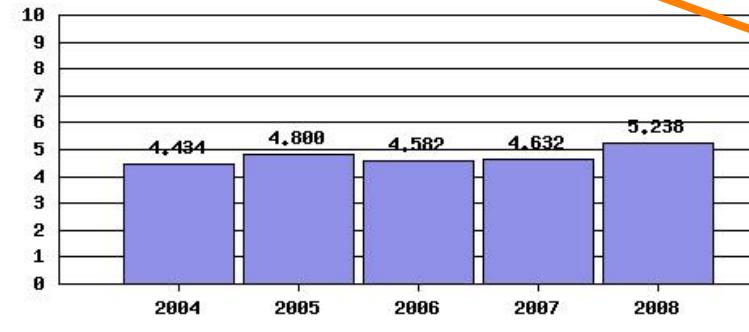
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